

— THE RIGHT TIME FOR INNOVATION

# Product Innovations catalogue



# How to find and order your tool solution:



## Personal – worldwide

You can contact us by phone, fax or e-mail. The contact details for your local contact can be found on our website at: **walter-tools.com**



## The Walter Hybrid catalogues and brochures

show the entire standard range under the Walter, Walter Titex, Walter Prototyp and Walter Multiply competence brands – in print or in digital format – with product range overviews, product data, cutting data recommendations and much more. Including links to our machining navigator, Walter GPS, or the Walter TOOLSHOP with the chance to order directly.

At **walter-tools.com**, you can access and order your Walter products quickly and conveniently online – via smartphone, tablet or PC.

The benefit for you: Direct access from any device, displayed in an optimised form, at any time.

### Walter online catalogue



#### Tool-specific search

You can find products in the Walter online catalogue using the familiar structure of our product catalogue as well as filter and search functions. Other features: A shopping function and links to drawings and models.

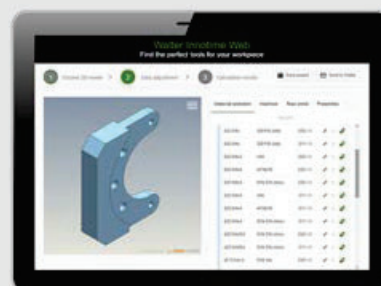
### Walter GPS



#### Application-based search

With Walter GPS, it takes just a few steps to find the optimum machining solution for your component, online and offline – and the solution can be transferred directly to the Walter TOOLSHOP if required.

### Walter Innotime®



#### Component-based search

With Walter Innotime®, you can find the most cost-effective machining solution for your component, including all the tools, machining steps and machining parameters required for this. Simply by uploading your 3D model.

## Digital ordering methods



**TOOLSHOP**



**EDI B2B**

#### Walter TOOLSHOP & EDI

The Walter TOOLSHOP offers customers opportunities to find information and place orders quickly.

EDI (electronic data interchange) also makes it possible to exchange documents (e.g. orders) – even special tools can be ordered.

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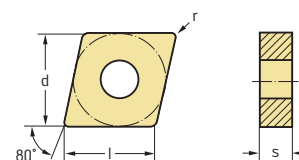
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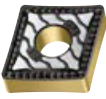
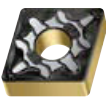
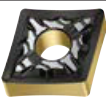
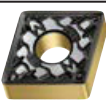
## Negative rhombic 80°

CNMG

Tiger-tec® Gold



## Indexable inserts

|                                                                                     | Designation    | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |       |        |        |        | K      |        | S     |        |        |        |      |
|-------------------------------------------------------------------------------------|----------------|---------|-----------|----------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|------|
|                                                                                     |                |         |           |                      | WMP20S | WPP10G | WPP20G | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S | WS10 |
|    | CNMG090304-FP5 | 0,4     | 0,04–0,20 | 0,1–1,5              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG090308-FP5 | 0,8     | 0,08–0,25 | 0,2–2,0              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120402-FP5 | 0,2     | 0,04–0,12 | 0,1–0,5              |        |        |        |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120404-FP5 | 0,4     | 0,04–0,20 | 0,1–1,5              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120408-FP5 | 0,8     | 0,08–0,25 | 0,2–2,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120412-FP5 | 1,2     | 0,10–0,25 | 0,5–2,5              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|    | CNMG120404-FW5 | 0,4     | 0,10–0,40 | 0,3–3,0              |        | ☹      | ☹      |        |        |        | ☹     | ☹      |        |        |        |        | ☹     | ☹      |        |        |      |
|                                                                                     | CNMG120408-FW5 | 0,8     | 0,15–0,60 | 0,4–3,0              |        | ☹      | ☹      |        |        |        | ☹     | ☹      |        |        |        |        | ☹     | ☹      |        |        |      |
| Wiper                                                                               |                |         |           |                      |        |        |        |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|   | CNMG090304-MP3 | 0,4     | 0,06–0,20 | 0,3–2,2              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG090308-MP3 | 0,8     | 0,10–0,28 | 0,6–3,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120404-MP3 | 0,4     | 0,08–0,22 | 0,3–2,5              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120408-MP3 | 0,8     | 0,12–0,32 | 0,6–3,2              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120412-MP3 | 1,2     | 0,16–0,40 | 0,8–3,5              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|  | CNMG120404-MP5 | 0,4     | 0,16–0,25 | 0,5–4,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120408-MP5 | 0,8     | 0,18–0,40 | 0,6–5,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        | ☹      |        |       |        |        |        |      |
|                                                                                     | CNMG120412-MP5 | 1,2     | 0,20–0,45 | 1,0–5,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG120416-MP5 | 1,6     | 0,25–0,50 | 1,2–5,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG160608-MP5 | 0,8     | 0,25–0,40 | 0,8–7,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG160612-MP5 | 1,2     | 0,30–0,50 | 1,0–7,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG160616-MP5 | 1,6     | 0,35–0,55 | 1,2–7,0              |        | ☹      | ☹      | ☹      | ☹      |        |       |        |        |        |        |        |       |        |        |        |      |
|  | CNMG120404-MS3 | 0,4     | 0,12–0,25 | 0,6–3,0              |        |        |        |        |        |        | ☹     | ☹      | ☹      | ☹      | ☹      |        | ☹     | ☹      | ☹      | ☹      |      |
|                                                                                     | CNMG120408-MS3 | 0,8     | 0,15–0,30 | 0,8–3,0              |        | ☹      | ☹      |        |        |        |       | ☹      | ☹      | ☹      | ☹      | ☹      |       | ☹      | ☹      | ☹      |      |
|                                                                                     | CNMG120412-MS3 | 1,2     | 0,15–0,40 | 1,0–3,5              |        |        | ☹      |        |        |        |       | ☹      | ☹      | ☹      | ☹      |        | ☹     | ☹      | ☹      |        |      |
|                                                                                     | CNMG190612-MS3 | 1,2     | 0,18–0,50 | 1,2–5,0              |        |        |        |        |        |        |       | ☹      |        | ☹      |        |        | ☹     |        | ☹      |        |      |
|  | CNMG120404-MU5 | 0,4     | 0,15–0,30 | 0,5–4,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        |        | ☹      |        |        |       |        | ☹      |        |      |
|                                                                                     | CNMG120408-MU5 | 0,8     | 0,15–0,40 | 0,6–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        |        | ☹      |        |        |       |        | ☹      |        |      |
|                                                                                     | CNMG120412-MU5 | 1,2     | 0,20–0,50 | 1,0–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        |        | ☹      |        |        |       |        | ☹      |        |      |
|                                                                                     | CNMG120416-MU5 | 1,6     | 0,25–0,55 | 1,2–5,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                     | CNMG160612-MU5 | 1,2     | 0,30–0,55 | 1,0–7,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        |        | ☹      |        |        |       |        | ☹      |        |      |
|  | CNMG120408-MW5 | 0,8     | 0,20–0,65 | 0,8–4,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        |        |        |        | ☹      | ☹     |        |        |        |      |
|                                                                                     | CNMG120412-MW5 | 1,2     | 0,25–0,70 | 1,5–4,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        |        |        |        | ☹      | ☹     |        |        |        |      |
| Wiper                                                                               |                |         |           |                      |        |        |        |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|  | CNMG120408-RM5 | 0,8     | 0,20–0,40 | 1,2–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        | ☹      | ☹      | ☹      |        |       | ☹      |        | ☹      |      |
|                                                                                     | CNMG120412-RM5 | 1,2     | 0,25–0,50 | 1,5–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        | ☹      | ☹      | ☹      |        |       | ☹      |        | ☹      |      |
|                                                                                     | CNMG120416-RM5 | 1,6     | 0,30–0,55 | 2,0–5,0              |        |        |        |        |        |        |       |        |        | ☹      | ☹      |        |       |        |        | ☹      |      |
|                                                                                     | CNMG160608-RM5 | 0,8     | 0,22–0,45 | 1,2–7,0              |        |        |        |        |        |        |       |        |        | ☹      | ☹      | ☹      |       | ☹      |        | ☹      |      |
|                                                                                     | CNMG160612-RM5 | 1,2     | 0,25–0,60 | 1,5–7,0              | ☹      |        |        |        |        |        |       |        |        | ☹      | ☹      | ☹      |       | ☹      |        | ☹      |      |
|                                                                                     | CNMG160616-RM5 | 1,6     | 0,30–0,65 | 2,0–7,0              | ☹      |        |        |        |        |        |       |        |        | ☹      | ☹      | ☹      |       |        |        | ☹      |      |
|                                                                                     | CNMG190612-RM5 | 1,2     | 0,25–0,60 | 1,5–8,0              | ☹      |        |        |        |        |        |       |        |        | ☹      | ☹      | ☹      |       | ☹      |        | ☹      |      |
|                                                                                     | CNMG190616-RM5 | 1,6     | 0,30–0,80 | 2,0–8,0              | ☹      |        |        |        |        |        |       |        |        | ☹      | ☹      | ☹      |       | ☹      |        | ☹      |      |

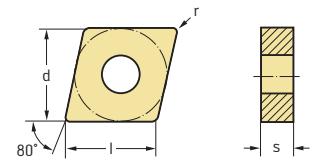
See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HE = Coated cermet  
 HW = Uncoated carbide

# Negative rhombic 80°

## CNMG

### Tiger-tec® Gold



#### Indexable inserts

|                                                                                    | Designation    | r<br>mm   | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |       |        |        |        | K      |        | S     |        |        |        |      |
|------------------------------------------------------------------------------------|----------------|-----------|-----------|----------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|------|
|                                                                                    |                |           |           |                      | HC     |        |        |        |        | HC     |       |        |        |        | HC     |        | HC    |        |        |        |      |
|                                                                                    |                |           |           |                      | WMP20S | WPP10G | WPP20G | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S | WS10 |
|   | CNMG120408-RP5 | 0,8       | 0,20–0,40 | 0,8–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        | ⊕      |        |       |        |        |        |      |
|                                                                                    | CNMG120412-RP5 | 1,2       | 0,25–0,60 | 1,0–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        | ⊕      |        |       |        |        |        |      |
|                                                                                    | CNMG120416-RP5 | 1,6       | 0,35–0,70 | 1,6–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160608-RP5 | 0,8       | 0,25–0,50 | 1,0–8,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160612-RP5 | 1,2       | 0,35–0,65 | 1,2–8,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160616-RP5 | 1,6       | 0,40–0,70 | 1,6–8,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160624-RP5 | 2,4       | 0,40–0,90 | 2,0–8,0              |        | ⊕      | ⊕      |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG190608-RP5 | 0,8       | 0,25–0,50 | 1,0–10,0             |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG190612-RP5 | 1,2       | 0,30–0,70 | 1,2–10,0             |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG190616-RP5 | 1,6       | 0,35–0,80 | 1,6–10,0             |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
| CNMG190624-RP5                                                                     | 2,4            | 0,45–1,00 | 2,0–10,0  |                      | ⊕      | ⊕      |        |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
| CNMG250924-RP5                                                                     | 2,4            | 0,45–1,20 | 2,0–12,0  |                      |        | ⊕      |        |        |        |        |       |        |        |        |        |        |       |        |        |        |      |
|  | CNMG120408-RP7 | 0,8       | 0,18–0,40 | 0,8–5,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG120412-RP7 | 1,2       | 0,25–0,50 | 1,2–5,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG120416-RP7 | 1,6       | 0,35–0,50 | 1,5–5,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160608-RP7 | 0,8       | 0,30–0,50 | 0,8–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160612-RP7 | 1,2       | 0,35–0,60 | 1,2–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG160616-RP7 | 1,6       | 0,40–0,60 | 1,5–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG190612-RP7 | 1,2       | 0,35–0,60 | 1,2–7,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG190616-RP7 | 1,6       | 0,35–0,75 | 1,5–7,0              |        | ⊕      | ⊕      | ⊕      |        |        |       |        |        |        |        |        |       |        |        |        |      |
|                                                                                    | CNMG250924-RP7 | 2,4       | 0,45–1,00 | 3,0–9,0              |        |        | ⊕      |        |        |        |       |        |        |        |        |        |       |        |        |        |      |

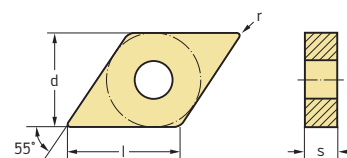
See the ISO 1832 designation key for dimensions

HC = Coated carbide  
HE = Coated cermet  
HW = Uncoated carbide

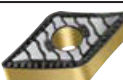
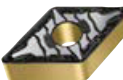
# Negative rhombic 55°

## DNMG

### Tiger-tec® Gold



#### Indexable inserts

|                                                                                            | Designation    | r<br>mm   | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |       |        |        |        | K      |        | S     |        |        |        |
|--------------------------------------------------------------------------------------------|----------------|-----------|-----------|----------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
|                                                                                            |                |           |           |                      | HC     |        |        | HE     | HC     |        |       |        | HC     | HC     |        |        |       |        |        |        |
|                                                                                            |                |           |           |                      | WMP20S | WPP10G | WPP20G | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S |
|           | DNMG110402-FP5 | 0,2       | 0,04–0,12 | 0,1–0,5              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110404-FP5 | 0,4       | 0,04–0,20 | 0,1–1,5              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110408-FP5 | 0,8       | 0,08–0,25 | 0,2–2,0              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110412-FP5 | 1,2       | 0,10–0,25 | 0,5–2,5              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150404-FP5 | 0,4       | 0,05–0,20 | 0,1–1,5              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150408-FP5 | 0,8       | 0,08–0,25 | 0,2–2,0              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150412-FP5 | 1,2       | 0,10–0,25 | 0,5–2,5              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150604-FP5 | 0,4       | 0,05–0,20 | 0,1–1,5              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150608-FP5 | 0,8       | 0,08–0,25 | 0,2–2,0              |        | ☹      | ☹      |        | ☹      |        |       |        |        |        |        |        |       |        |        |        |
| DNMG150612-FP5                                                                             | 1,2            | 0,10–0,25 | 0,5–2,5   |                      | ☹      | ☹      |        | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
| <br>Wiper | DNMG110404-FW5 | 0,4       | 0,10–0,35 | 0,3–2,0              |        | ☹      | ☹      |        |        |        | ☹     | ☹      |        |        |        |        |       | ☹      | ☹      |        |
|                                                                                            | DNMG110408-FW5 | 0,8       | 0,15–0,50 | 0,4–2,0              |        | ☹      | ☹      |        |        |        | ☹     | ☹      |        |        |        |        |       | ☹      | ☹      |        |
|                                                                                            | DNMG150404-FW5 | 0,4       | 0,10–0,40 | 0,3–3,0              |        | ☹      |        |        |        |        |       | ☹      |        |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150408-FW5 | 0,8       | 0,15–0,50 | 0,4–3,0              |        | ☹      |        |        |        |        |       | ☹      |        |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150604-FW5 | 0,4       | 0,10–0,40 | 0,3–3,0              |        | ☹      | ☹      |        |        |        |       | ☹      | ☹      |        |        |        |       | ☹      | ☹      |        |
|                                                                                            | DNMG150608-FW5 | 0,8       | 0,15–0,50 | 0,4–3,0              |        | ☹      | ☹      |        |        |        |       | ☹      | ☹      |        |        |        |       | ☹      | ☹      |        |
|         | DNMG110404-MP3 | 0,4       | 0,08–0,22 | 0,3–2,2              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110408-MP3 | 0,8       | 0,12–0,32 | 0,6–3,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110412-MP3 | 1,2       | 0,16–0,40 | 0,8–3,2              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150404-MP3 | 0,4       | 0,08–0,22 | 0,3–2,5              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150408-MP3 | 0,8       | 0,12–0,32 | 0,6–3,2              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150412-MP3 | 1,2       | 0,16–0,40 | 0,8–3,5              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150604-MP3 | 0,4       | 0,08–0,22 | 0,3–2,5              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150608-MP3 | 0,8       | 0,12–0,32 | 0,6–3,2              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150612-MP3 | 1,2       | 0,16–0,40 | 0,8–3,5              |        | ☹      | ☹      |        |        |        |       |        |        |        |        |        |       |        |        |        |
|         | DNMG110404-MP5 | 0,4       | 0,16–0,25 | 0,5–4,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110408-MP5 | 0,8       | 0,18–0,35 | 0,6–4,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG110412-MP5 | 1,2       | 0,20–0,40 | 1,0–4,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150404-MP5 | 0,4       | 0,16–0,25 | 0,5–4,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150408-MP5 | 0,8       | 0,18–0,35 | 0,6–5,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150412-MP5 | 1,2       | 0,20–0,40 | 1,0–5,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150604-MP5 | 0,4       | 0,16–0,25 | 0,5–4,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150608-MP5 | 0,8       | 0,18–0,35 | 0,6–5,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                            | DNMG150612-MP5 | 1,2       | 0,20–0,40 | 1,0–5,0              |        | ☹      | ☹      | ☹      |        |        |       |        |        |        |        |        |       |        |        |        |
| DNMG150616-MP5                                                                             | 1,6            | 0,25–0,45 | 1,2–5,0   |                      | ☹      | ☹      |        |        |        |        |       |        |        |        |        |        |       |        |        |        |
|         | DNMG110408-MS3 | 0,8       | 0,12–0,30 | 0,8–2,5              |        |        | ☹      |        |        |        | ☹     | ☹      | ☹      |        | ☹      |        | ☹     | ☹      | ☹      |        |
|                                                                                            | DNMG150404-MS3 | 0,4       | 0,12–0,25 | 0,6–2,5              |        |        |        |        |        |        |       | ☹      | ☹      |        |        |        | ☹     | ☹      |        |        |
|                                                                                            | DNMG150408-MS3 | 0,8       | 0,15–0,30 | 0,8–2,5              |        |        |        |        |        |        |       | ☹      | ☹      | ☹      |        |        | ☹     | ☹      | ☹      |        |
|                                                                                            | DNMG150604-MS3 | 0,4       | 0,12–0,25 | 0,6–2,5              |        |        |        |        |        |        |       |        | ☹      |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150608-MS3 | 0,8       | 0,15–0,30 | 0,8–2,5              |        |        |        | ☹      |        |        |       | ☹      | ☹      |        |        |        | ☹     | ☹      | ☹      |        |
|         | DNMG110408-MU5 | 0,8       | 0,18–0,35 | 0,6–4,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        | ☹      |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150408-MU5 | 0,8       | 0,18–0,35 | 0,6–5,0              | ☹      | ☹      | ☹      |        |        |        |       |        | ☹      |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150608-MU5 | 0,8       | 0,18–0,35 | 0,6–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        | ☹      |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150612-MU5 | 1,2       | 0,20–0,45 | 1,0–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        | ☹      |        |        |        |       |        | ☹      |        |
|                                                                                            | DNMG150616-MU5 | 1,6       | 0,25–0,50 | 1,2–5,0              | ☹      | ☹      | ☹      |        |        |        | ☹     |        | ☹      |        |        |        |       |        | ☹      |        |

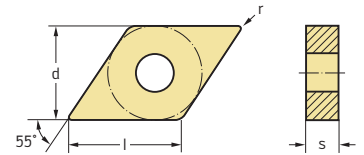
See the ISO 1832 designation key for dimensions

HE = Coated cermet  
HC = Coated carbide

# Negative rhombic 55°

## DNMG

### Tiger-tec® Gold



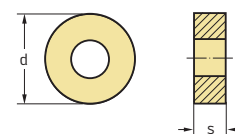
#### Indexable inserts

|                                                                                                   | Designation    | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |       |        |        |        | K      |        | S     |        |        |        |
|---------------------------------------------------------------------------------------------------|----------------|---------|-----------|----------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
|                                                                                                   |                |         |           |                      | HC     |        |        |        |        | HC     |       |        |        |        | HC     |        | HC    |        |        |        |
|                                                                                                   |                |         |           |                      | WMP20S | WPP10G | WPP20G | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S |
| <br><b>Wiper</b> | DNMG110408-MW5 | 0,8     | 0,15–0,50 | 0,8–3,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        | ⊗      | ⊗      |       |        |        |        |
|                                                                                                   | DNMG110412-MW5 | 1,2     | 0,20–0,60 | 1,5–3,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        | ⊗      | ⊗      |       |        |        |        |
|                                                                                                   | DNMG150408-MW5 | 0,8     | 0,15–0,55 | 0,8–4,0              |        | ⊗      |        |        |        |        |       |        |        |        | ⊗      |        |       |        |        |        |
|                                                                                                   | DNMG150412-MW5 | 1,2     | 0,20–0,65 | 1,5–4,0              |        | ⊗      |        |        |        |        |       |        |        |        | ⊗      |        |       |        |        |        |
|                                                                                                   | DNMG150608-MW5 | 0,8     | 0,15–0,55 | 1,5–4,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        | ⊗      | ⊗      |       |        |        |        |
|                                                                                                   | DNMG150612-MW5 | 1,2     | 0,20–0,65 | 1,5–4,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        | ⊗      | ⊗      |       |        |        |        |
|                  | DNMG110408-RP5 | 0,8     | 0,18–0,35 | 0,8–4,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   | DNMG110412-RP5 | 1,2     | 0,20–0,40 | 1,0–4,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   | DNMG150408-RP5 | 0,8     | 0,18–0,35 | 0,8–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   | DNMG150412-RP5 | 1,2     | 0,20–0,40 | 1,0–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   | DNMG150608-RP5 | 0,8     | 0,15–0,35 | 0,8–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   | DNMG150612-RP5 | 1,2     | 0,20–0,55 | 1,0–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   | DNMG150616-RP5 | 1,6     | 0,25–0,65 | 1,6–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                                   |                |         |           |                      |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |        |

See the ISO 1832 designation key for dimensions

HE = Coated cermet  
HC = Coated carbide

## Negative round RNMG Tiger-tec® Gold



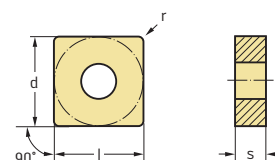
### Indexable inserts

| Designation                                                                                      | d<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P                                                                                   | S                                                                                   |
|--------------------------------------------------------------------------------------------------|---------|-----------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  |         |           |                      | HC                                                                                  | HW                                                                                  |
|                                                                                                  |         |           |                      | WPP20G                                                                              | WS10                                                                                |
|                                                                                                  |         |           |                      |  |  |
|  RNMG120400-RP5 | 12,7    | 0,20–0,60 | 1,2–5,0              |                                                                                     |                                                                                     |

See the ISO 1832 designation key for dimensions

HC = Coated carbide  
HW = Uncoated carbide

## Negative square SNMG Tiger-tec® Gold



### Indexable inserts

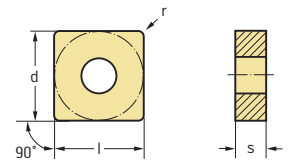
| Designation                                                                         | r<br>mm        | f<br>mm | a <sub>p</sub><br>mm | P       |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       | S                                                                                     |
|-------------------------------------------------------------------------------------|----------------|---------|----------------------|---------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |                |         |                      | WMP20S  | WPP10G                                                                                | WPP20G                                                                                | WPP30G                                                                                | WMP20S                                                                                | WSM20S                                                                                | WSM20S                                                                                |
|  | SNMG090308-FP5 | 0,8     | 0,06–0,20            | 0,2–1,5 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120404-FP5 | 0,4     | 0,04–0,22            | 0,1–1,8 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120408-FP5 | 0,8     | 0,08–0,25            | 0,2–2,0 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120412-FP5 | 1,2     | 0,10–0,25            | 0,5–2,5 |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | SNMG090308-MP3 | 0,8     | 0,10–0,32            | 0,6–3,0 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120404-MP3 | 0,4     | 0,08–0,25            | 0,3–2,5 |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120408-MP3 | 0,8     | 0,12–0,35            | 0,6–3,2 |  |  |  |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120412-MP3 | 1,2     | 0,16–0,40            | 0,8–3,5 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | SNMG090308-MP5 | 0,8     | 0,14–0,32            | 0,6–3,0 |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120408-MP5 | 0,8     | 0,18–0,40            | 0,6–5,0 |  |  |  |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120412-MP5 | 1,2     | 0,20–0,45            | 1,0–5,0 |  |  |  |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120416-MP5 | 1,6     | 0,25–0,50            | 1,2–5,0 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG150608-MP5 | 0,8     | 0,25–0,50            | 0,8–8,0 |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG150612-MP5 | 1,2     | 0,30–0,50            | 1,0–8,0 |                                                                                       |  |  |                                                                                       |                                                                                       |                                                                                       |
|  | SNMG150616-MP5 | 1,6     | 0,35–0,55            | 1,2–8,0 |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | SNMG120408-MU5 | 0,8     | 0,18–0,45            | 0,6–5,0 |  |  |                                                                                       |  |  |  |

See the ISO 1832 designation key for dimensions

HC = Coated carbide



# Negative square SNMG Tiger-tec® Gold



## Indexable inserts

|                                                                                   | Designation    | r<br>mm   | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        | M      | S      |
|-----------------------------------------------------------------------------------|----------------|-----------|-----------|----------------------|--------|--------|--------|--------|--------|--------|
|                                                                                   |                |           |           |                      | HC     |        |        |        | HC     | HC     |
|                                                                                   |                |           |           |                      | WMP20S | WPP10G | WPP20G | WPP30G | WMP20S | WSM20S |
|  | SNMG120408-RP5 | 0,8       | 0,20–0,55 | 0,8–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG120412-RP5 | 1,2       | 0,25–0,65 | 1,0–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG120416-RP5 | 1,6       | 0,35–0,75 | 1,6–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG150612-RP5 | 1,2       | 0,25–0,70 | 1,2–8,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG150616-RP5 | 1,6       | 0,35–0,80 | 1,6–8,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG190612-RP5 | 1,2       | 0,30–0,70 | 1,2–10,0             |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG190616-RP5 | 1,6       | 0,35–0,80 | 1,6–10,0             |        |        | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG190624-RP5 | 2,4       | 0,44–1,20 | 2,0–10,0             |        |        | ⊕      | ⊕      |        |        |
| SNMG250924-RP5                                                                    | 2,4            | 0,55–1,20 | 2,5–12,0  |                      |        | ⊕      | ⊕      |        |        |        |
|  | SNMG120408-RP7 | 0,8       | 0,25–0,45 | 0,8–5,0              |        |        | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG120412-RP7 | 1,2       | 0,30–0,50 | 1,2–5,0              |        |        | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG120416-RP7 | 1,6       | 0,35–0,60 | 1,5–5,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG150612-RP7 | 1,2       | 0,35–0,60 | 1,2–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG150616-RP7 | 1,6       | 0,40–0,70 | 1,5–6,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG190612-RP7 | 1,2       | 0,35–0,60 | 1,2–7,0              |        |        | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG190616-RP7 | 1,6       | 0,40–0,70 | 1,5–7,0              |        | ⊕      | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG190624-RP7 | 2,4       | 0,40–0,80 | 2,5–7,0              |        |        | ⊕      | ⊕      |        |        |
|                                                                                   | SNMG250924-RP7 | 2,4       | 0,55–1,00 | 3,0–10,0             |        |        | ⊕      | ⊕      |        |        |

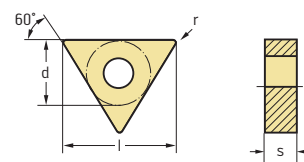
See the ISO 1832 designation key for dimensions

HC = Coated carbide

## Negative triangular 60°

## TNMG

## Tiger-tec® Gold



## Indexable inserts

|                                                                                     | Designation    | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                     | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|----------------|---------|-----------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |                |         |           |                      | HC                                                                                    |                                                                                       |                                                                                       | HE                                                                                    | HC                                                                                  |                                                                                       |                                                                                       | HC                                                                                    | HC                                                                                    | HC                                                                                    | HC                                                                                    |                                                                                       |                                                                                       |
|                                                                                     |                |         |           |                      | WMP20S                                                                                | WPP10G                                                                                | WPP20G                                                                                | WPP30G                                                                                | WEP10C                                                                              | WMP20S                                                                                | WSM01                                                                                 | WSM10S                                                                                | WSM20S                                                                                | WKK10S                                                                                | WKK20S                                                                                | WSM01                                                                                 | WSM10S                                                                                |
|    | TNMG110308-FP5 | 0,8     | 0,08–0,20 | 0,2–1,5              |    |    |    |    |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160404-FP5 | 0,4     | 0,04–0,20 | 0,1–1,5              |    |    |    |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160408-FP5 | 0,8     | 0,08–0,25 | 0,2–2,0              |    |    |    |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160412-FP5 | 1,2     | 0,10–0,25 | 0,5–2,5              |    |    |    |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|    | TNMG160404-FW5 | 0,4     | 0,10–0,40 | 0,3–3,0              |    |    |    |                                                                                       |                                                                                     |                                                                                       |    |    |    |                                                                                       |                                                                                       |    |    |
|                                                                                     | TNMG160408-FW5 | 0,8     | 0,15–0,50 | 0,4–3,0              |    |    |    |                                                                                       |                                                                                     |                                                                                       |    |    |    |                                                                                       |                                                                                       |    |    |
| Wiper                                                                               |                |         |           |                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|    | TNMG110304-MP3 | 0,4     | 0,06–0,18 | 0,3–2,0              |    |    |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG110308-MP3 | 0,8     | 0,10–0,25 | 0,6–2,2              |    |    |    |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160304-MP3 | 0,4     | 0,08–0,22 | 0,3–2,2              |                                                                                       |    |    |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160404-MP3 | 0,4     | 0,08–0,22 | 0,3–2,2              |    |    |    |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160408-MP3 | 0,8     | 0,12–0,32 | 0,6–3,0              |    |    |    |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160412-MP3 | 1,2     | 0,16–0,40 | 0,8–3,2              |    |    |    |    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220408-MP3 | 0,8     | 0,12–0,32 | 0,6–3,2              |                                                                                       |    |    |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220412-MP3 | 1,2     | 0,16–0,40 | 0,8–3,5              |    |    |    |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | TNMG160308-MP5 | 0,8     | 0,18–0,35 | 0,6–4,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160404-MP5 | 0,4     | 0,16–0,25 | 0,5–4,0              |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160408-MP5 | 0,8     | 0,18–0,35 | 0,6–4,0              |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160412-MP5 | 1,2     | 0,20–0,40 | 1,0–4,0              |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220404-MP5 | 0,4     | 0,16–0,25 | 0,7–4,0              |  |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220408-MP5 | 0,8     | 0,18–0,35 | 0,8–5,0              |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220412-MP5 | 1,2     | 0,20–0,40 | 1,0–5,0              |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220416-MP5 | 1,6     | 0,25–0,45 | 1,2–5,0              |  |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG270608-MP5 | 0,8     | 0,25–0,45 | 0,8–7,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG270612-MP5 | 1,2     | 0,30–0,50 | 1,0–7,0              |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG270616-MP5 | 1,6     | 0,35–0,55 | 1,2–7,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | TNMG160404-MS3 | 0,4     | 0,12–0,25 | 0,6–3,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |  |  |                                                                                       |
|                                                                                     | TNMG160408-MS3 | 0,8     | 0,15–0,30 | 0,8–3,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |  |  |                                                                                       |                                                                                       |  |  |                                                                                       |
|                                                                                     | TNMG220404-MS3 | 0,4     | 0,12–0,25 | 0,6–3,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |
|                                                                                     | TNMG220408-MS3 | 0,8     | 0,15–0,30 | 0,8–3,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |  |  |                                                                                       |                                                                                       |  |  |                                                                                       |
|  | TNMG160404-MU5 | 0,4     | 0,15–0,30 | 0,5–4,0              |  |  |  |                                                                                       |                                                                                     |  |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |                                                                                       |  |
|                                                                                     | TNMG160408-MU5 | 0,8     | 0,18–0,35 | 0,6–4,0              |  |  |  |                                                                                       |                                                                                     |  |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |  |                                                                                       |
|                                                                                     | TNMG160412-MU5 | 1,2     | 0,20–0,45 | 1,0–4,0              |  |  |  |                                                                                       |                                                                                     |  |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |  |                                                                                       |
|  | TNMG160408-MW5 | 0,8     | 0,15–0,55 | 0,8–4,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160412-MW5 | 1,2     | 0,20–0,65 | 1,5–4,0              |                                                                                       |  |  |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |  |  |                                                                                       |                                                                                       |                                                                                       |
| Wiper                                                                               |                |         |           |                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|  | TNMG160408-RP5 | 0,8     | 0,20–0,40 | 0,8–5,0              |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG160412-RP5 | 1,2     | 0,25–0,55 | 1,0–5,0              |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220408-RP5 | 0,8     | 0,20–0,45 | 0,8–7,0              |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220412-RP5 | 1,2     | 0,25–0,60 | 1,0–7,0              |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG220416-RP5 | 1,6     | 0,35–0,70 | 1,6–7,0              |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG270612-RP5 | 1,2     | 0,30–0,70 | 1,6–10,0             |                                                                                       |                                                                                       |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG270616-RP5 | 1,6     | 0,35–0,80 | 2,0–10,0             |                                                                                       |                                                                                       |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     | TNMG330924-RP5 | 2,4     | 0,45–1,20 | 2,5–13,0             |                                                                                       |                                                                                       |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

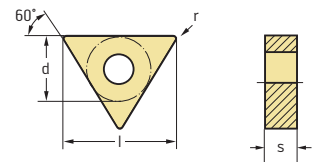
See the ISO 1832 designation key for dimensions

HC = Coated carbide  
HE = Coated cermet

## Negative triangular 60°

### TNMG

### Tiger-tec® Gold



#### Indexable inserts

|  | Designation    | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |                                                                                   |        |        | M      |       |        | K      |        | S      |       |        |
|-----------------------------------------------------------------------------------|----------------|---------|-----------|----------------------|--------|--------|-----------------------------------------------------------------------------------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|
|                                                                                   |                |         |           |                      | HC     |        | HE                                                                                |        |        | HC     |       |        | HC     |        | HC     |       |        |
|                                                                                   |                |         |           |                      | WMP20S | WPP10G | WPP20G                                                                            | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WKK10S | WKK20S | WSM01 | WSM10S |
|                                                                                   | TNMG270616-RP7 | 1,6     | 0,35–0,75 | 1,5–9,0              |        |        |  |        |        |        |       |        |        |        |        |       |        |
|                                                                                   | TNMG270624-RP7 | 2,4     | 0,55–1,00 | 3,0–9,0              |        |        |  |        |        |        |       |        |        |        |        |       |        |

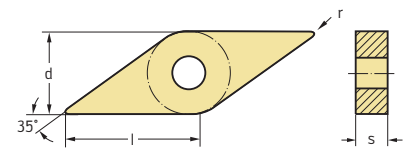
See the ISO 1832 designation key for dimensions

HC = Coated carbide  
HE = Coated cermet

## Negative rhombic 35°

### VNMG

### Tiger-tec® Gold



#### Indexable inserts

| Designation                                                                                        | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |
|----------------------------------------------------------------------------------------------------|---------|-----------|----------------------|--------|--------|--------|--------|
|                                                                                                    |         |           |                      | WPP10G | WPP20G | WPP30G | WEP10C |
|  VNMG160404-FP5 | 0,4     | 0,04–0,22 | 0,1–1,5              | ☞      | ☞      |        | ☞      |
| VNMG160408-FP5                                                                                     | 0,8     | 0,08–0,25 | 0,2–2,0              | ☞      | ☞      |        | ☞      |
| VNMG160412-FP5                                                                                     | 1,2     | 0,12–0,28 | 0,3–2,5              | ☞      | ☞      |        |        |
|  VNMG160404-MP3 | 0,4     | 0,08–0,22 | 0,3–2,2              | ☞      | ☞      |        |        |
| VNMG160408-MP3                                                                                     | 0,8     | 0,12–0,32 | 0,6–3,0              | ☞      | ☞      | ☞      |        |
| VNMG160412-MP3                                                                                     | 1,2     | 0,16–0,35 | 0,8–3,2              | ☞      | ☞      |        |        |
|  VNMG160404-MP5 | 0,4     | 0,10–0,18 | 0,5–2,0              | ☞      | ☞      | ☞      |        |
| VNMG160408-MP5                                                                                     | 0,8     | 0,18–0,35 | 0,6–4,0              | ☞      | ☞      | ☞      |        |
| VNMG160412-MP5                                                                                     | 1,2     | 0,20–0,40 | 0,8–4,0              | ☞      | ☞      | ☞      |        |
| VNMG220408-MP5                                                                                     | 0,8     | 0,18–0,35 | 0,6–4,0              | ☞      | ☞      |        |        |

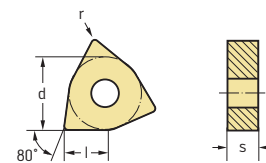
See the ISO 1832 designation key for dimensions

HE = Coated cermet  
HC = Coated carbide

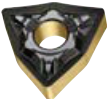
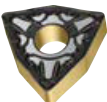
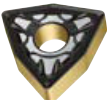
# Negative Trigon 80°

## WNMG

### Tiger-tec® Gold



#### Indexable inserts

|                                                                                              | Designation    | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |       |        |        | K      |        | S      |       |        |        |
|----------------------------------------------------------------------------------------------|----------------|---------|-----------|----------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|
|                                                                                              |                |         |           |                      | HC     |        |        |        |        | HC     |       |        |        | HC     |        | HC     |       |        |        |
|                                                                                              |                |         |           |                      | WMP20S | WPP10G | WPP20G | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S |
|             | WNMG060404-FP5 | 0,4     | 0,04–0,20 | 0,1–1,5              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG060408-FP5 | 0,8     | 0,08–0,25 | 0,2–2,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080404-FP5 | 0,4     | 0,05–0,20 | 0,1–1,5              |        | ⊗      | ⊗      |        | ⊗      |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080408-FP5 | 0,8     | 0,08–0,25 | 0,2–2,0              |        | ⊗      | ⊗      |        | ⊗      |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080412-FP5 | 1,2     | 0,10–0,25 | 0,5–2,5              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
| <br>Wiper   | WNMG060404-FW5 | 0,4     | 0,10–0,35 | 0,3–2,0              |        | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |
|                                                                                              | WNMG060408-FW5 | 0,8     | 0,15–0,50 | 0,4–2,0              |        | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |
|                                                                                              | WNMG080404-FW5 | 0,4     | 0,10–0,40 | 0,3–3,0              |        | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |
|                                                                                              | WNMG080408-FW5 | 0,8     | 0,15–0,60 | 0,4–3,0              |        | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |        |        |        |       | ⊗      | ⊗      |
|                                                                                              | WNMG080412-FW5 | 1,2     | 0,25–0,65 | 0,6–3,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|            | WNMG060404-MP3 | 0,4     | 0,08–0,22 | 0,3–2,2              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG060408-MP3 | 0,8     | 0,12–0,32 | 0,6–3,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG060412-MP3 | 1,2     | 0,16–0,35 | 0,8–3,2              |        |        | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080404-MP3 | 0,4     | 0,08–0,22 | 0,3–2,5              |        |        | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080408-MP3 | 0,8     | 0,12–0,32 | 0,6–3,2              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|           | WNMG080412-MP3 | 1,2     | 0,16–0,40 | 0,8–3,5              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG060404-MP5 | 0,4     | 0,16–0,25 | 0,5–4,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG060408-MP5 | 0,8     | 0,18–0,35 | 0,6–4,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG060412-MP5 | 1,2     | 0,20–0,40 | 1,0–4,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080404-MP5 | 0,4     | 0,16–0,25 | 0,5–4,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|           | WNMG080408-MP5 | 0,8     | 0,18–0,40 | 0,6–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080412-MP5 | 1,2     | 0,20–0,45 | 1,0–5,0              |        | ⊗      | ⊗      | ⊗      |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG080416-MP5 | 1,6     | 0,25–0,50 | 1,2–5,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG100608-MP5 | 0,8     | 0,25–0,40 | 0,8–7,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|                                                                                              | WNMG100612-MP5 | 1,2     | 0,30–0,50 | 1,0–7,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        |        |        |       |        |        |
|           | WNMG080404-MS3 | 0,4     | 0,12–0,25 | 0,6–3,0              |        |        |        |        |        |        | ⊗     | ⊗      |        | ⊗      |        |        | ⊗     | ⊗      | ⊗      |
|                                                                                              | WNMG080408-MS3 | 0,8     | 0,15–0,30 | 0,8–3,0              |        |        | ⊗      |        |        |        | ⊗     | ⊗      | ⊗      |        | ⊗      |        | ⊗     | ⊗      | ⊗      |
|           | WNMG060408-MU5 | 0,8     | 0,15–0,35 | 0,6–3,0              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        | ⊗      |        |        |        |       |        | ⊗      |
|                                                                                              | WNMG080404-MU5 | 0,4     | 0,15–0,30 | 0,5–4,0              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        | ⊗      |        |        |        |       |        | ⊗      |
|                                                                                              | WNMG080408-MU5 | 0,8     | 0,15–0,40 | 0,6–5,0              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        | ⊗      |        |        |        |       |        | ⊗      |
|                                                                                              | WNMG080412-MU5 | 1,2     | 0,20–0,50 | 1,0–5,0              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        | ⊗      |        |        |        |       |        | ⊗      |
| <br>Wiper | WNMG060408-MW5 | 0,8     | 0,15–0,50 | 0,8–3,0              |        | ⊗      | ⊗      |        |        |        |       |        |        |        | ⊗      |        |       |        |        |
|                                                                                              | WNMG060412-MW5 | 1,2     | 0,20–0,60 | 1,5–3,0              |        |        | ⊗      |        |        |        |       |        |        |        | ⊗      |        |       |        |        |
|                                                                                              | WNMG080408-MW5 | 0,8     | 0,20–0,65 | 0,8–4,0              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        |        |        | ⊗      | ⊗      |       |        |        |
|                                                                                              | WNMG080412-MW5 | 1,2     | 0,25–0,70 | 1,5–4,0              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        |        |        | ⊗      | ⊗      |       |        |        |
|           | WNMG060408-RM5 | 0,8     | 0,20–0,40 | 1,2–3,5              | ⊗      |        |        |        |        |        | ⊗     |        | ⊗      | ⊗      |        |        |       |        | ⊗      |
|                                                                                              | WNMG080408-RM5 | 0,8     | 0,20–0,40 | 1,2–4,5              | ⊗      | ⊗      | ⊗      |        |        |        | ⊗     |        | ⊗      | ⊗      |        |        |       | ⊗      | ⊗      |
|                                                                                              | WNMG080412-RM5 | 1,2     | 0,25–0,50 | 1,5–4,5              | ⊗      |        |        |        |        |        | ⊗     |        | ⊗      | ⊗      |        |        |       | ⊗      | ⊗      |

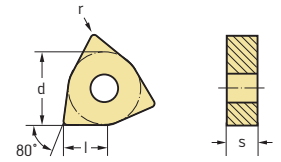
See the ISO 1832 designation key for dimensions

HC = Coated carbide  
HE = Coated cermet

# Negative Trigon 80°

## WNMG

### Tiger-tec® Gold



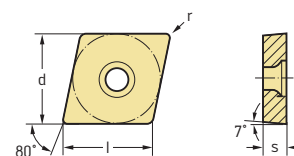
#### Indexable inserts

| Designation                                                                       | r<br>mm        | f<br>mm   | a <sub>p</sub><br>mm | P       |        |        |        |        | M      |       |        |        |        | K      |        | S     |        |        |        |
|-----------------------------------------------------------------------------------|----------------|-----------|----------------------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
|                                                                                   |                |           |                      | HC      |        |        |        | HE     | HC     |       |        |        |        | HC     |        | HC    |        |        |        |
|                                                                                   |                |           |                      | WMP20S  | WPP10G | WPP20G | WPP30G | WEP10C | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S |
|  | WNMG060408-RP5 | 0,8       | 0,20–0,40            | 0,8–4,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG060412-RP5 | 1,2       | 0,25–0,50            | 1,0–4,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG080408-RP5 | 0,8       | 0,20–0,40            | 0,8–6,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        | ☞      |        |       |        |        |        |
|                                                                                   | WNMG080412-RP5 | 1,2       | 0,25–0,60            | 1,0–6,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        | ☞      |        |       |        |        |        |
|                                                                                   | WNMG080416-RP5 | 1,6       | 0,35–0,70            | 1,6–6,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG100612-RP5 | 1,2       | 0,35–0,65            | 1,2–8,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|  | WNMG100616-RP5 | 1,6       | 0,35–0,70            | 1,6–8,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG080408-RP7 | 0,8       | 0,18–0,40            | 0,8–5,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG080412-RP7 | 1,2       | 0,25–0,50            | 1,2–5,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG100608-RP7 | 0,8       | 0,30–0,50            | 0,8–6,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
|                                                                                   | WNMG100612-RP7 | 1,2       | 0,35–0,60            | 1,2–6,0 | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |
| WNMG100616-RP7                                                                    | 1,6            | 0,40–0,60 | 1,5–6,0              |         | ☞      | ☞      | ☞      | ☞      |        |       |        |        |        |        |        |       |        |        |        |

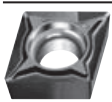
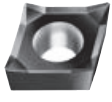
See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HE = Coated cermet

# Positive rhombic 80° CCGT



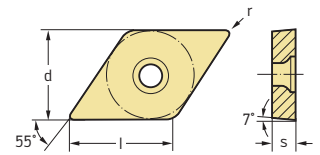
## Indexable inserts

|                                                                                   | Designation    | l<br>mm | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | M                                                                                     | N                                                                                     |                                                                                       | S                                                                                     |
|-----------------------------------------------------------------------------------|----------------|---------|---------|-----------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                   |                |         |         |           |                      | HC                                                                                    | HC                                                                                    | HW                                                                                    | HC                                                                                    |
|                                                                                   |                |         |         |           |                      | WSM01                                                                                 | WNN10                                                                                 | WN10                                                                                  | WSM01                                                                                 |
|  | CCGT060201-FN2 | 6,45    | 0,1     | 0,02–0,06 | 0,1–1,5              |                                                                                       |    |                                                                                       |                                                                                       |
|                                                                                   | CCGT060202-FN2 | 6,45    | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | CCGT060204-FN2 | 6,45    | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                       |    |    |                                                                                       |
|                                                                                   | CCGT09T301-FN2 | 9,67    | 0,1     | 0,02–0,06 | 0,1–1,5              |                                                                                       |    |                                                                                       |                                                                                       |
|                                                                                   | CCGT09T302-FN2 | 9,67    | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | CCGT09T304-FN2 | 9,67    | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                       |    |    |                                                                                       |
|                                                                                   | CCGT09T308-FN2 | 9,67    | 0,8     | 0,10–0,30 | 0,3–3,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | CCGT120404-FN2 | 12,9    | 0,4     | 0,08–0,25 | 0,2–3,0              |                                                                                       |    |    |                                                                                       |
|  | CCGT120408-FN2 | 12,9    | 0,8     | 0,10–0,30 | 0,3–3,5              |                                                                                       |    |    |                                                                                       |
|                                                                                   | CCGT060201-MN2 | 6,45    | 0,1     | 0,02–0,06 | 0,5–1,5              |                                                                                       |    |                                                                                       |                                                                                       |
|                                                                                   | CCGT060202-MN2 | 6,45    | 0,2     | 0,05–0,12 | 0,5–2,0              |    |    |    |    |
|                                                                                   | CCGT060204-MN2 | 6,45    | 0,4     | 0,08–0,25 | 0,6–3,0              |   |   |   |   |
|                                                                                   | CCGT09T301-MN2 | 9,67    | 0,1     | 0,02–0,06 | 0,5–1,5              |                                                                                       |  |  |                                                                                       |
|                                                                                   | CCGT09T302-MN2 | 9,67    | 0,2     | 0,05–0,12 | 0,5–2,0              |  |  |  |  |
|                                                                                   | CCGT09T304-MN2 | 9,67    | 0,4     | 0,08–0,25 | 0,6–4,0              |  |  |  |  |
|                                                                                   | CCGT09T308-MN2 | 9,67    | 0,8     | 0,10–0,35 | 0,8–4,0              |  |  |  |  |
|                                                                                   | CCGT120402-MN2 | 12,9    | 0,2     | 0,05–0,12 | 0,5–2,0              |                                                                                       |  |  |                                                                                       |
|                                                                                   | CCGT120404-MN2 | 12,9    | 0,4     | 0,08–0,25 | 0,6–5,0              |                                                                                       |  |  |                                                                                       |
|                                                                                   | CCGT120408-MN2 | 12,9    | 0,8     | 0,10–0,35 | 0,8–5,0              |                                                                                       |  |  |                                                                                       |

See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HW = Uncoated carbide

## Positive rhombic 55° DCGT



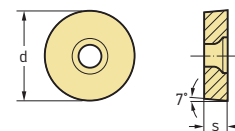
### Indexable inserts

|                                                                                   | Designation    | l<br>mm | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | M     | N     |      | S     |
|-----------------------------------------------------------------------------------|----------------|---------|---------|-----------|----------------------|-------|-------|------|-------|
|                                                                                   |                |         |         |           |                      | HC    | HC    | HW   | HC    |
|  | DCGT070201-FN2 | 7,75    | 0,1     | 0,02-0,06 | 0,1-1,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT070202-FN2 | 7,75    | 0,2     | 0,05-0,12 | 0,2-2,0              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT070204-FN2 | 7,75    | 0,4     | 0,08-0,25 | 0,2-2,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T301-FN2 | 11,63   | 0,1     | 0,02-0,06 | 0,1-1,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T302-FN2 | 11,63   | 0,2     | 0,05-0,12 | 0,2-2,0              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T304-FN2 | 11,63   | 0,4     | 0,08-0,25 | 0,2-2,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T308-FN2 | 11,63   | 0,8     | 0,10-0,30 | 0,3-3,0              | WSM01 | WNN10 | WN10 | WSM01 |
|  | DCGT070201-MN2 | 7,75    | 0,1     | 0,02-0,06 | 0,5-1,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT070202-MN2 | 7,75    | 0,2     | 0,05-0,12 | 0,5-2,0              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT070204-MN2 | 7,75    | 0,4     | 0,08-0,25 | 0,6-2,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T301-MN2 | 11,63   | 0,1     | 0,02-0,06 | 0,5-1,5              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T302-MN2 | 11,63   | 0,2     | 0,05-0,12 | 0,5-2,0              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T304-MN2 | 11,63   | 0,4     | 0,08-0,25 | 0,6-3,0              | WSM01 | WNN10 | WN10 | WSM01 |
|                                                                                   | DCGT11T308-MN2 | 11,63   | 0,8     | 0,10-0,30 | 0,8-3,5              | WSM01 | WNN10 | WN10 | WSM01 |

See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HW = Uncoated carbide

## Positive round RCGT



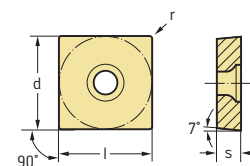
### Indexable inserts

| Designation                                                                       | d<br>mm        | f<br>mm | a <sub>p</sub><br>mm | N       |                                                                                     |
|-----------------------------------------------------------------------------------|----------------|---------|----------------------|---------|-------------------------------------------------------------------------------------|
|                                                                                   |                |         |                      | HC      | HW                                                                                  |
|                                                                                   |                |         |                      | WNN10   | WN10                                                                                |
|  | RCGT0602M0-MN2 | 6       | 0,10–0,55            | 0,6–2,5 |  |
|                                                                                   | RCGT0803M0-MN2 | 8       | 0,12–0,60            | 0,7–3,0 |  |
|                                                                                   | RCGT10T3M0-MN2 | 10      | 0,15–0,70            | 0,8–4,0 |  |
|                                                                                   | RCGT120400-MN2 | 12,7    | 0,18–0,80            | 1,0–5,0 |  |
|                                                                                   | RCGT1204M0-MN2 | 12      | 0,18–0,80            | 1,0–5,0 |  |

See the ISO 1832 designation key for dimensions

HW = Uncoated carbide  
HC = Coated carbide

## Positive square SCGT



### Indexable inserts

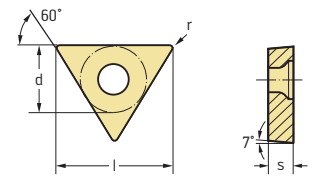
| Designation                                                                         | l<br>mm        | r<br>mm | f<br>mm | a <sub>p</sub><br>mm | M       | N                                                                                     |                                                                                       | S                                                                                     |
|-------------------------------------------------------------------------------------|----------------|---------|---------|----------------------|---------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |                |         |         |                      | HC      | HC                                                                                    | HW                                                                                    | HC                                                                                    |
|                                                                                     |                |         |         |                      | WSM01   | WNN10                                                                                 | WN10                                                                                  | WSM01                                                                                 |
|  | SCGT09T304-MN2 | 9,53    | 0,4     | 0,08–0,25            | 0,6–4,0 |  |  |  |
|                                                                                     | SCGT09T308-MN2 | 9,53    | 0,8     | 0,10–0,35            | 0,7–4,0 |  |  |  |
|                                                                                     | SCGT120408-MN2 | 12,7    | 0,8     | 0,10–0,40            | 0,8–6,0 |  |  |  |

See the ISO 1832 designation key for dimensions

HW = Uncoated carbide  
HC = Coated carbide



## Positive triangular 60° TCGT



### Indexable inserts

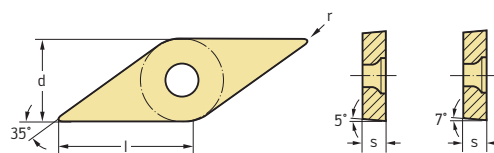
|                                                                                   | Designation    | l<br>mm | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | M                                                                                     | N                                                                                     |                                                                                       | S                                                                                     |
|-----------------------------------------------------------------------------------|----------------|---------|---------|-----------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                   |                |         |         |           |                      | HC                                                                                    | HC                                                                                    | HW                                                                                    | HC                                                                                    |
|                                                                                   |                |         |         |           |                      | WSM01                                                                                 | WNN10                                                                                 | WN10                                                                                  | WSM01                                                                                 |
|  | TCGT06T101-FN2 | 6,87    | 0,1     | 0,02–0,06 | 0,1–1,5              |    |    |                                                                                       |                                                                                       |
|                                                                                   | TCGT06T102-FN2 | 6,87    | 0,2     | 0,05–0,12 | 0,2–2,0              |    |    |                                                                                       |                                                                                       |
|                                                                                   | TCGT06T104-FN2 | 6,87    | 0,4     | 0,08–0,25 | 0,2–2,5              |    |    |    |                                                                                       |
|                                                                                   | TCGT090202-FN2 | 9,62    | 0,2     | 0,05–0,12 | 0,2–2,0              |    |    |                                                                                       |                                                                                       |
|                                                                                   | TCGT090204-FN2 | 9,62    | 0,4     | 0,08–0,25 | 0,2–2,5              |    |    |    |                                                                                       |
|                                                                                   | TCGT110202-FN2 | 11      | 0,2     | 0,05–0,12 | 0,2–2,0              |    |    |                                                                                       |                                                                                       |
|                                                                                   | TCGT110204-FN2 | 11      | 0,4     | 0,08–0,25 | 0,2–2,5              |    |    |    |                                                                                       |
|                                                                                   | TCGT16T304-FN2 | 16,5    | 0,4     | 0,08–0,25 | 0,2–2,5              |   |  |  |                                                                                       |
|  | TCGT16T308-FN2 | 16,5    | 0,8     | 0,10–0,30 | 0,3–3,0              |  |  |  |                                                                                       |
|                                                                                   | TCGT110201-MN2 | 11      | 0,1     | 0,02–0,06 | 0,5–1,5              |  |  |                                                                                       |                                                                                       |
|                                                                                   | TCGT110202-MN2 | 11      | 0,2     | 0,05–0,12 | 0,6–2,0              |  |  |  |                                                                                       |
|                                                                                   | TCGT110204-MN2 | 11      | 0,4     | 0,08–0,25 | 0,6–3,0              |  |  |  |  |
|                                                                                   | TCGT16T302-MN2 | 16,5    | 0,2     | 0,05–0,12 | 0,5–2,0              |  |  |  |                                                                                       |
|                                                                                   | TCGT16T304-MN2 | 16,5    | 0,4     | 0,08–0,25 | 0,6–4,0              |  |  |  |  |
|                                                                                   | TCGT16T308-MN2 | 16,5    | 0,8     | 0,10–0,35 | 0,8–4,0              |  |  |  |  |

See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HW = Uncoated carbide

## Positive rhombic 35°

### VCGT



### Indexable inserts

|                                                                                   | Designation    | l<br>mm | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | M                                                                                     | N                                                                                     |                                                                                       | S                                                                                     |
|-----------------------------------------------------------------------------------|----------------|---------|---------|-----------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                   |                |         |         |           |                      | HC                                                                                    | HC                                                                                    | HW                                                                                    | HC                                                                                    |
|                                                                                   |                |         |         |           |                      | WSM01                                                                                 | WNN10                                                                                 | WN10                                                                                  | WSM01                                                                                 |
|  | VCGT110301-FN2 | 11,07   | 0,1     | 0,02–0,06 | 0,1–1,5              |                                                                                       |    |                                                                                       |                                                                                       |
|                                                                                   | VCGT110302-FN2 | 11,07   | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT110304-FN2 | 11,07   | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT160402-FN2 | 16,61   | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT160404-FN2 | 16,61   | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                       |    |    |                                                                                       |
|  | VCGT160408-FN2 | 16,61   | 0,8     | 0,10–0,30 | 0,3–3,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT110301-MN2 | 11,07   | 0,1     | 0,02–0,06 | 0,5–1,5              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT110302-MN2 | 11,07   | 0,2     | 0,05–0,12 | 0,5–2,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT110304-MN2 | 11,07   | 0,4     | 0,08–0,25 | 0,6–2,5              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT110308-MN2 | 11,07   | 0,8     | 0,10–0,35 | 0,8–3,0              |                                                                                       |    |    |                                                                                       |
|                                                                                   | VCGT130301-MN2 | 13,1    | 0,1     | 0,02–0,06 | 0,5–1,5              |                                                                                       |    |                                                                                       |                                                                                       |
|                                                                                   | VCGT130302-MN2 | 13,1    | 0,2     | 0,05–0,12 | 0,5–2,0              |                                                                                       |   |   |                                                                                       |
|                                                                                   | VCGT130304-MN2 | 13,1    | 0,4     | 0,08–0,25 | 0,6–3,0              |                                                                                       |  |  |                                                                                       |
|                                                                                   | VCGT160404-MN2 | 16,61   | 0,4     | 0,08–0,25 | 0,6–3,5              |  |  |  |  |
|                                                                                   | VCGT160408-MN2 | 16,61   | 0,8     | 0,10–0,35 | 0,8–3,5              |  |  |  |  |
|                                                                                   | VCGT160412-MN2 | 16,61   | 1,2     | 0,10–0,45 | 1,0–3,5              |                                                                                       |  |  |                                                                                       |

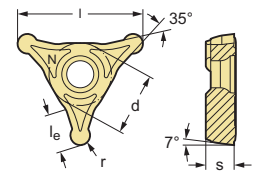
See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HW = Uncoated carbide

## Indexable inserts for copy turning system

WL...-RC...

Tiger-tec® Gold



## Indexable inserts

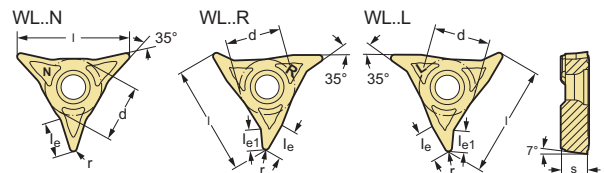
|                                                                                   | Designation      | r<br>mm | l<br>mm | l <sub>e</sub><br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      | M      | S      |
|-----------------------------------------------------------------------------------|------------------|---------|---------|----------------------|-----------|----------------------|--------|--------|--------|
|                                                                                   |                  |         |         |                      |           |                      | HC     | HC     | HC     |
|  | WL25-RC0420N-MU6 | 2       | 25      | 7,2                  | 0,12–0,40 | 0,5–2,0              | WPP20S | WSM20S | WSM30S |
|                                                                                   | WL25-RC0525N-MU6 | 2,5     | 25      | 6,9                  | 0,12–0,45 | 0,5–2,5              | WPP20S | WSM20S | WSM30S |

HC = Coated carbide

## Indexable inserts for copy turning system

WL...-VC...

Tiger-tec® Gold



## Indexable inserts

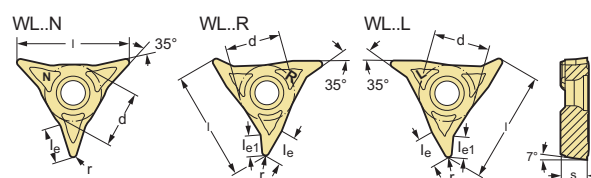
|                                                                                     | Designation      | r<br>mm | l<br>mm | l <sub>e</sub><br>mm | l <sub>e1</sub><br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      | M      | S      |
|-------------------------------------------------------------------------------------|------------------|---------|---------|----------------------|-----------------------|-----------|----------------------|--------|--------|--------|
|                                                                                     |                  |         |         |                      |                       |           |                      | HC     | HC     | HC     |
|  | WL25-VC0704L-FM4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,05–0,20 | 0,1–2,0              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0708L-FM4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,08–0,25 | 0,2–2,0              | WPP20S | WSM20S | WSM30S |
|  | WL25-VC0704L-FP4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,05–0,20 | 0,1–2,0              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0708L-FP4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,08–0,25 | 0,2–2,0              | WPP20S | WSM20S | WSM30S |
|  | WL25-VC0704L-MM4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,08–0,25 | 0,4–2,5              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0708L-MM4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,12–0,32 | 0,5–2,5              | WPP20S | WSM20S | WSM30S |
|  | WL25-VC0704L-MP4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,08–0,25 | 0,4–2,5              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0708L-MP4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,12–0,32 | 0,5–2,5              | WPP20S | WSM20S | WSM30S |
|  | WL25-VC0702N-FM4 | 0,2     | 25      | 6                    |                       | 0,04–0,15 | 0,1–2,0              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0704N-FM4 | 0,4     | 25      | 6,3                  |                       | 0,05–0,20 | 0,1–2,0              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0708N-FM4 | 0,8     | 25      | 7,1                  |                       | 0,08–0,25 | 0,2–2,0              | WPP20S | WSM20S | WSM30S |
|  | WL25-VC0704N-FP4 | 0,4     | 25      | 6,3                  |                       | 0,05–0,20 | 0,1–2,0              | WPP10S | WSM10S | WSM20S |
|                                                                                     | WL25-VC0708N-FP4 | 0,8     | 25      | 7,1                  |                       | 0,08–0,25 | 0,2–2,0              | WPP20S | WSM20S | WSM30S |

HC = Coated carbide

# Indexable inserts for copy turning system

## WL...-VC...

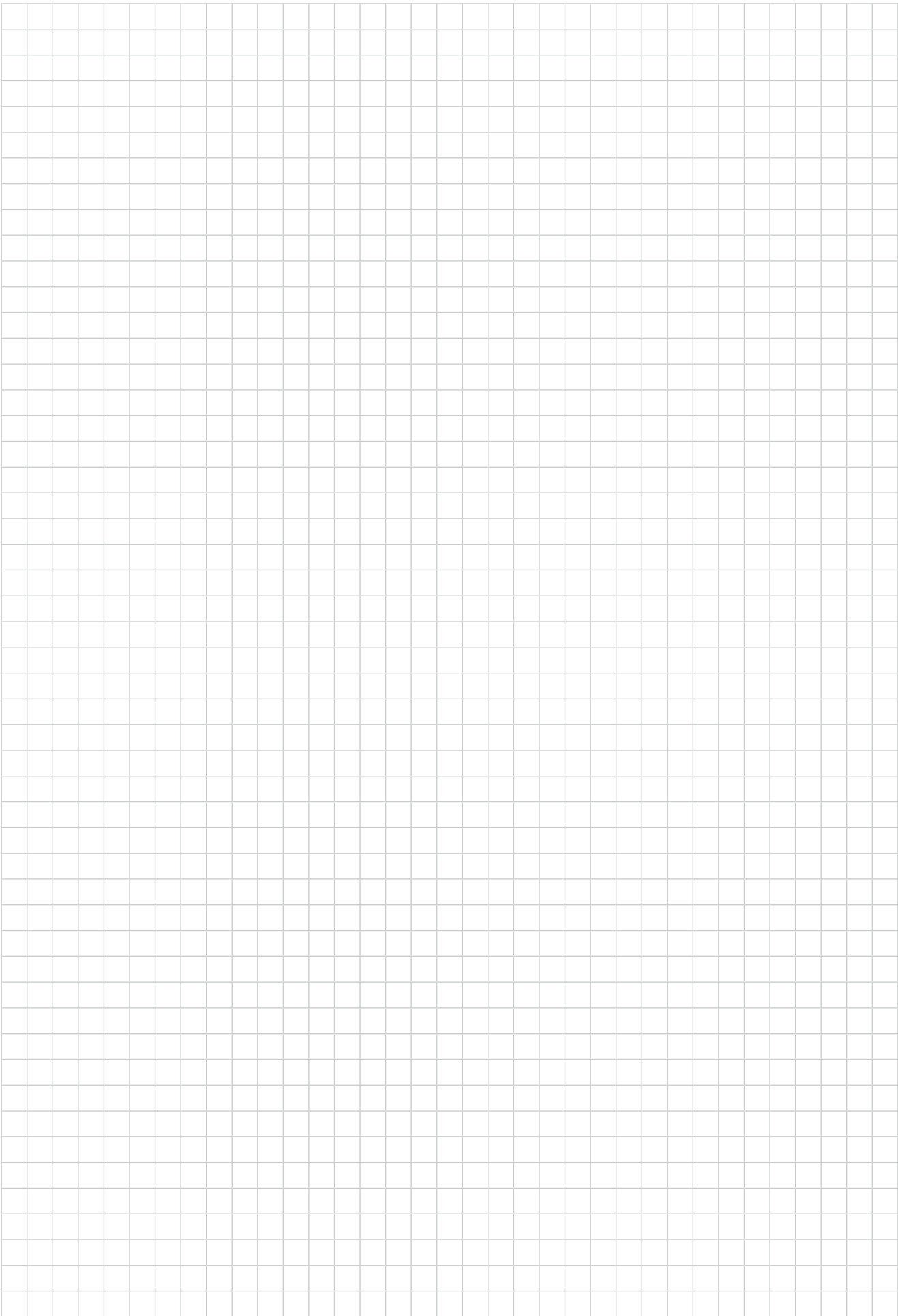
### Tiger-tec® Gold



## Indexable inserts

|                                                                                     | Designation      | r<br>mm | l<br>mm | l <sub>e</sub><br>mm | l <sub>e1</sub><br>mm | f<br>mm   | a <sub>p</sub><br>mm | P                                                                                     |                                                                                       | M                                                                                     |                                                                                       | S                                                                                   |                                                                                       |
|-------------------------------------------------------------------------------------|------------------|---------|---------|----------------------|-----------------------|-----------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |                  |         |         |                      |                       |           |                      | HC                                                                                    | HC                                                                                    | HC                                                                                    | HC                                                                                    | HC                                                                                  | HC                                                                                    |
|    | WL25-VC0704N-MM4 | 0,4     | 25      | 6,3                  |                       | 0,08–0,25 | 0,4–2,5              |                                                                                       |                                                                                       |    |    |  |    |
|                                                                                     | WL25-VC0708N-MM4 | 0,8     | 25      | 7,1                  |                       | 0,12–0,32 | 0,5–2,5              |                                                                                       |                                                                                       |    |    |  |    |
|                                                                                     | WL25-VC0712N-MM4 | 1,2     | 25      | 7,4                  |                       | 0,12–0,35 | 0,5–2,5              |                                                                                       |                                                                                       |    |    |  |    |
|                                                                                     | WL25-VC0716N-MM4 | 1,6     | 25      | 8,7                  |                       | 0,12–0,40 | 0,5–2,5              |                                                                                       |                                                                                       |    |    |  |    |
|    | WL25-VC0704N-MP4 | 0,4     | 25      | 6,3                  |                       | 0,08–0,25 | 0,4–2,5              |    |    |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|                                                                                     | WL25-VC0708N-MP4 | 0,8     | 25      | 7,1                  |                       | 0,12–0,32 | 0,5–2,5              |    |    |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|                                                                                     | WL25-VC0712N-MP4 | 1,2     | 25      | 7,4                  |                       | 0,12–0,35 | 0,5–2,5              |    |    |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|                                                                                     | WL25-VC0716N-MP4 | 1,6     | 25      | 8,7                  |                       | 0,12–0,40 | 0,5–2,5              |    |    |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|    | WL25-VC0704R-FM4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,05–0,20 | 0,1–2,0              |                                                                                       |                                                                                       |    |    |  |    |
|                                                                                     | WL25-VC0708R-FM4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,08–0,25 | 0,2–2,0              |                                                                                       |                                                                                       |    |    |  |    |
|   | WL25-VC0704R-FP4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,05–0,20 | 0,1–2,0              |    |    |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|                                                                                     | WL25-VC0708R-FP4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,08–0,25 | 0,2–2,0              |   |   |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|  | WL25-VC0704R-MM4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,08–0,25 | 0,4–2,5              |                                                                                       |                                                                                       |  |  |                                                                                     |  |
|                                                                                     | WL25-VC0708R-MM4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,12–0,32 | 0,5–2,5              |                                                                                       |                                                                                       |  |  |                                                                                     |  |
|  | WL25-VC0704R-MP4 | 0,4     | 25      | 6,2                  | 3,9                   | 0,08–0,25 | 0,4–2,5              |  |  |                                                                                       |                                                                                       |                                                                                     |                                                                                       |
|                                                                                     | WL25-VC0708R-MP4 | 0,8     | 25      | 6,6                  | 4,6                   | 0,12–0,32 | 0,5–2,5              |  |  |                                                                                       |                                                                                       |                                                                                     |                                                                                       |

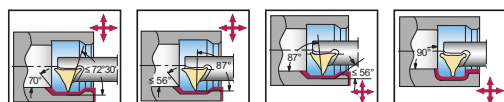
HC = Coated carbide



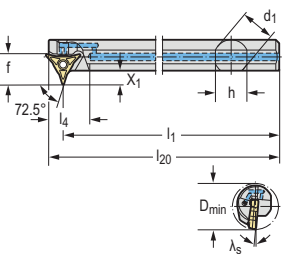
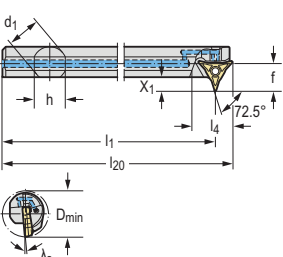
## Boring bar – Copy turning system

**W1210** mm
**Walter Turn**


- Double internal coolant supply
- Additional coolant hole for blind hole machining



### Tool

| Tool                                                                                                                                | Designation       |  | $D_{min}$<br>mm | $d_1$<br>mm | $f$<br>mm | $h$<br>mm | $l_1$<br>mm | $l_4$<br>mm | $l_{20}$<br>mm | $X_1$<br>mm | $\gamma$ | $\lambda_s$ | Type   |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-----------------|-------------|-----------|-----------|-------------|-------------|----------------|-------------|----------|-------------|--------|
| <div>Parallel shank with clamping surface</div>   | ★ W1210-25TR-WL25 | 25                                                                                | 34              | 25          | 20        | 23        | 300         | 30          | 310            | 10          | -1,5°    | -4,8°       | WL25.. |
|                                                                                                                                     | ★ W1210-32TR-WL25 | 25                                                                                | 44              | 32          | 27        | 30        | 300         | 31          | 310            | 13,5        | -1,5°    | -4,8°       |        |
|                                                                                                                                     | ★ W1210-40TR-WL25 | 25                                                                                | 52              | 40          | 31        | 37        | 300         | 35          | 310            | 13,5        | -1,5°    | -4,8°       |        |
| <div>Parallel shank with clamping surface</div>  | ★ W1210-25TL-WL25 | 25                                                                                | 34              | 25          | 20        | 23        | 300         | 30          | 310            | 10          | -1,5°    | -4,8°       | WL25.. |
|                                                                                                                                     | ★ W1210-32TL-WL25 | 25                                                                                | 44              | 32          | 27        | 30        | 300         | 31          | 310            | 13,5        | -1,5°    | -4,8°       |        |
|                                                                                                                                     | ★ W1210-40TL-WL25 | 25                                                                                | 52              | 40          | 31        | 37        | 300         | 35          | 310            | 13,5        | -1,5°    | -4,8°       |        |

The maximum recommended coolant pressure is 80 bar (1160 psi)  
 Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | Type                                                     | WL25..                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1495 (T20IP)<br>5 Nm |
|  | Threaded plug                                            | FS2082 (T6IP)          |
|  | Torx key                                                 | FS1464 (T20IP)         |

## Accessories

|                                                                                   | Type<br>D <sub>min</sub> [mm] | WL25..<br>34  | WL25..<br>44  | WL25..<br>52   |
|-----------------------------------------------------------------------------------|-------------------------------|---------------|---------------|----------------|
|  | Coolant sealing adapter       | CN3000-25-8.5 | CN3000-32-8.5 | CN3000-40-11.5 |

## Indexable inserts

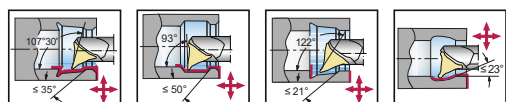
|                                                                                     | Designation      | r<br>mm | l <sub>e</sub><br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |        |        |        | K      | S      |        |        |        |
|-------------------------------------------------------------------------------------|------------------|---------|----------------------|-----------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                     |                  |         |                      |           |                      | HC     |        |        |        |        | HC     |        |        |        | HC     | HC     |        |        |        |
|                                                                                     |                  |         |                      |           |                      | WPP10G | WPP10S | WPP20G | WPP20S | WSM20S | WMP20S | WSM10S | WSM20S | WSM30S | WPP20S | WMP20S | WSM10S | WSM20S | WSM30S |
|    | WL25-RC0420N-MU6 | 2       | 7,2                  | 0,12–0,40 | 0,5–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-RC0525N-MU6 | 2,5     | 6,9                  | 0,12–0,45 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|   | WL25-VC0702N-FM4 | 0,2     | 6                    | 0,04–0,15 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-FM4 | 0,4     | 6,3                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-FP4 | 0,4     | 6,3                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-MM4 | 0,4     | 6,3                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-MP4 | 0,4     | 6,3                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-FM4 | 0,8     | 7,1                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-FP4 | 0,8     | 7,1                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-MM4 | 0,8     | 7,1                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-MP4 | 0,8     | 7,1                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0712N-MM4 | 1,2     | 7,4                  | 0,12–0,35 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0712N-MP4 | 1,2     | 7,4                  | 0,12–0,35 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0716N-MM4 | 1,6     | 8,7                  | 0,12–0,40 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|  | WL25-VC0704L-FM4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-FP4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-MM4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-MP4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-FM4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-FP4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-MM4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-MP4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|  | WL25-VC0704R-FM4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-FP4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-MM4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-MP4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-FM4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-FP4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-MM4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-MP4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

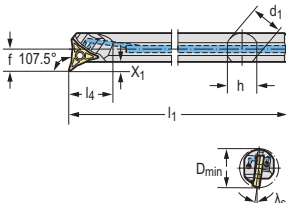
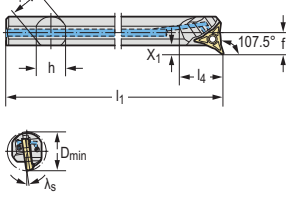
HC = Coated carbide

## Boring bar – Copy turning system

**W1211** mm
**Walter Turn**


- Double internal coolant supply
- Additional coolant hole for blind hole machining



| Tool                                                                                | Designation       |    | $D_{min}$<br>mm | $d_1$<br>mm | $f$<br>mm | $h$<br>mm | $l_1$<br>mm | $l_4$<br>mm | $X_1$<br>mm | $\gamma$ | $\lambda_s$ | Type   |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------|-------------|-----------|-----------|-------------|-------------|-------------|----------|-------------|--------|
|    | ★ W1211-25TR-WL25 |    | 25              | 32          | 17        | 23        | 300         | 35          | 7           | -1,3°    | -7,5°       | WL25.. |
|                                                                                     | ★ W1211-32TR-WL25 |    | 25              | 40          | 23        | 30        | 300         | 45          | 9,5         | -1,3°    | -7,5°       |        |
|                                                                                     | ★ W1211-40TR-WL25 |    | 25              | 50          | 27,5      | 37        | 300         | 54          | 10          | -1,3°    | -7,5°       |        |
|  | ★ W1211-25TL-WL25 |  | 25              | 32          | 17        | 23        | 300         | 35          | 7           | -1,3°    | -7,5°       | WL25.. |
|                                                                                     | ★ W1211-32TL-WL25 |  | 25              | 40          | 23        | 30        | 300         | 45          | 9,5         | -1,3°    | -7,5°       |        |
|                                                                                     | ★ W1211-40TL-WL25 |  | 25              | 50          | 27,5      | 37        | 300         | 54          | 10          | -1,3°    | -7,5°       |        |

The maximum recommended coolant pressure is 80 bar (1160 psi)  
 Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | Type                                                     | WL25..                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1495 (T20IP)<br>5 Nm |
|  | Threaded plug                                            | FS2082 (T6IP)          |
|  | Torx key                                                 | FS1464 (T20IP)         |

## Accessories

|                                                                                   | Type<br>D <sub>min</sub> [mm] | WL25..<br>32  | WL25..<br>40  | WL25..<br>50   |
|-----------------------------------------------------------------------------------|-------------------------------|---------------|---------------|----------------|
|  | Coolant sealing adapter       | CN3000-25-8.5 | CN3000-32-8.5 | CN3000-40-11.5 |

## Indexable inserts

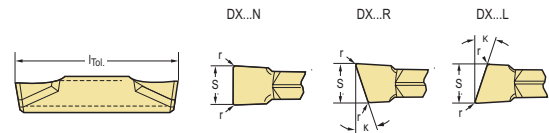
|                                                                                     | Designation      | r<br>mm | l <sub>e</sub><br>mm | f<br>mm   | a <sub>p</sub><br>mm | P      |        |        |        |        | M      |        |        |        | K      | S      |        |        |        |        |
|-------------------------------------------------------------------------------------|------------------|---------|----------------------|-----------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                     |                  |         |                      |           |                      | HC     |        |        |        |        | HC     |        |        |        | HC     | HC     |        |        |        |        |
|                                                                                     |                  |         |                      |           |                      | WPP10G | WPP10S | WPP20G | WPP20S | WSM20S | WSM30S | WMP20S | WSM10S | WSM20S | WSM30S | WPP20S | WMP20S | WSM10S | WSM20S | WSM30S |
|    | WL25-RC0420N-MU6 | 2       | 7,2                  | 0,12–0,40 | 0,5–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-RC0525N-MU6 | 2,5     | 6,9                  | 0,12–0,45 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|   | WL25-VC0702N-FM4 | 0,2     | 6                    | 0,04–0,15 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-FM4 | 0,4     | 6,3                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-FP4 | 0,4     | 6,3                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-MM4 | 0,4     | 6,3                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704N-MP4 | 0,4     | 6,3                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-FM4 | 0,8     | 7,1                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-FP4 | 0,8     | 7,1                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-MM4 | 0,8     | 7,1                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708N-MP4 | 0,8     | 7,1                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0712N-MM4 | 1,2     | 7,4                  | 0,12–0,35 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0712N-MP4 | 1,2     | 7,4                  | 0,12–0,35 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0716N-MM4 | 1,6     | 8,7                  | 0,12–0,40 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|  | WL25-VC0716N-MP4 | 1,6     | 8,7                  | 0,12–0,40 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-FM4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-FP4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-MM4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704L-MP4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-FM4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-FP4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708L-MM4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|  | WL25-VC0708L-MP4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-FM4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-FP4 | 0,4     | 6,2                  | 0,05–0,20 | 0,1–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-MM4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0704R-MP4 | 0,4     | 6,2                  | 0,08–0,25 | 0,4–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-FM4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-FP4 | 0,8     | 6,6                  | 0,08–0,25 | 0,2–2,0              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | WL25-VC0708R-MM4 | 0,8     | 6,6                  | 0,12–0,32 | 0,5–2,5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| WL25-VC0708R-MP4                                                                    | 0,8              | 6,6     | 0,12–0,32            | 0,5–2,5   |                      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

HC = Coated carbide

# Grooving and parting off – Cutting inserts

DX

Tiger-tec® Silver



## Cutting inserts

|  | Designation       | s<br>mm | r<br>mm | l<br>mm | f<br>mm   | S <sub>Tol</sub><br>mm | l <sub>Tol</sub><br>mm | P      |        |        |        | M      |        |        | N    |        | S      |        |      |
|--|-------------------|---------|---------|---------|-----------|------------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|------|
|  |                   |         |         |         |           |                        |                        | HC     |        |        |        | HC     |        |        | HF   |        | HC     |        |      |
|  |                   |         |         |         |           |                        |                        | WKP23S | WSM23S | WSM33S | WSM43S | WSM23S | WSM33S | WSM43S | WN13 | WSM23S | WSM33S | WSM43S | WN13 |
|  | DX18-1E120N01-CE4 | 1,2     | 0,15    | 18      | 0,04–0,13 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E150N01-CE4 | 1,5     | 0,15    | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N02-CE4 | 2       | 0,2     | 18      | 0,06–0,17 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250N02-CE4 | 2,5     | 0,2     | 18      | 0,07–0,21 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300N02-CE4 | 3       | 0,2     | 18      | 0,09–0,33 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E100N01-CF5 | 1       | 0,1     | 18      | 0,03–0,10 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E150N01-CF5 | 1,5     | 0,15    | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N00-CF5 | 2       | 0       | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N02-CF5 | 2       | 0,2     | 18      | 0,04–0,14 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250N02-CF5 | 2,5     | 0,2     | 18      | 0,05–0,18 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300N02-CF5 | 3       | 0,2     | 18      | 0,08–0,23 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E100N01-CF6 | 1       | 0,1     | 18      | 0,03–0,08 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E150N01-CF6 | 1,5     | 0,15    | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N02-CF6 | 2       | 0,2     | 18      | 0,03–0,14 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250N02-CF6 | 2,5     | 0,2     | 18      | 0,03–0,18 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300N02-CF6 | 3       | 0,2     | 18      | 0,04–0,23 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N02-GD3 | 2       | 0,2     | 18      | 0,04–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250N02-GD3 | 2,5     | 0,2     | 18      | 0,04–0,17 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300N03-GD3 | 3       | 0,3     | 18      | 0,06–0,21 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-4E400N04-GD3 | 4       | 0,4     | 18,5    | 0,10–0,23 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N02-GD6 | 2       | 0,2     | 18      | 0,04–0,14 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250N02-GD6 | 2,5     | 0,2     | 18      | 0,06–0,20 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300N03-GD6 | 3       | 0,3     | 18      | 0,08–0,21 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-4E400N04-GD6 | 4       | 0,4     | 18,5    | 0,10–0,25 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L6-CE4  | 2       | 0,2     | 18      | 0,04–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250L6-CE4  | 2,5     | 0,2     | 18      | 0,05–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300L6-CE4  | 3       | 0,2     | 18      | 0,09–0,27 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E150L10-CF5 | 1,5     | 0       | 18      | 0,03–0,06 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L6-CF5  | 2       | 0,2     | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L7-CF5  | 2       | 0       | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L15-CF5 | 2       | 0       | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250L6-CF5  | 2,5     | 0,2     | 18      | 0,03–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300L6-CF5  | 3       | 0,2     | 18      | 0,04–0,19 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300L7-CF5  | 3       | 0       | 18,8    | 0,04–0,16 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300L15-CF5 | 3       | 0       | 18,8    | 0,04–0,16 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E150L10-CF6 | 1,5     | 0       | 18      | 0,03–0,10 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L6-CF6  | 2       | 0,2     | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L15-CF6 | 2       | 0       | 18,3    | 0,03–0,13 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E250L6-CF6  | 2,5     | 0,2     | 18      | 0,03–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3E300L6-CF6  | 3       | 0,2     | 18      | 0,04–0,19 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200L7-CK8  | 2       | 0       | 18      | 0,04–0,10 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-1E150N01-CK8 | 1,5     | 0,15    | 18      | 0,04–0,10 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200N02-CK8 | 2       | 0,2     | 18      | 0,04–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |

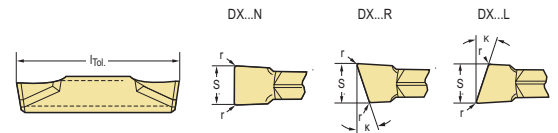
l<sub>Tol</sub> = Repeat accuracy when changing indexable inserts within the same indexable insert batch  
Radius tolerance r<sub>Tol</sub> = ±0.05 mm

HC = Coated carbide  
HF = Uncoated fine-grained carbide

## Grooving and parting off – Cutting inserts

DX

Tiger-tec® Silver



A2

## Cutting inserts

|                                                                                     | Designation       | s<br>mm | r<br>mm | l<br>mm | f<br>mm   | S <sub>Tol</sub><br>mm | l <sub>Tol</sub><br>mm | P      |        |        |        | M      |        |        | N    | S      |        |        |      |
|-------------------------------------------------------------------------------------|-------------------|---------|---------|---------|-----------|------------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|------|
|                                                                                     |                   |         |         |         |           |                        |                        | HC     |        |        |        | HC     |        |        | HF   | HC     |        |        |      |
|                                                                                     |                   |         |         |         |           |                        |                        | WKP23S | WSM23S | WSM33S | WSM43S | WSM23S | WSM33S | WSM43S | WN13 | WSM23S | WSM33S | WSM43S | WN13 |
|    | DX18-2E200R6-CE4  | 2       | 0,2     | 18      | 0,04–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E250R6-CE4  | 2,5     | 0,2     | 18      | 0,05–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-3E300R6-CE4  | 3       | 0,2     | 18      | 0,09–0,27 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|    | DX18-1E150R10-CF5 | 1,5     | 0       | 18      | 0,03–0,06 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E200R6-CF5  | 2       | 0,2     | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E200R7-CF5  | 2       | 0       | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E200R15-CF5 | 2       | 0       | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E250R6-CF5  | 2,5     | 0,2     | 18      | 0,03–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-3E300R6-CF5  | 3       | 0,2     | 18      | 0,04–0,19 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-3E300R7-CF5  | 3       | 0       | 18,8    | 0,04–0,16 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-3E300R15-CF5 | 3       | 0       | 18,8    | 0,04–0,16 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|   | DX18-1E150R10-CF6 | 1,5     | 0       | 18      | 0,03–0,10 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E200R6-CF6  | 2       | 0,2     | 18      | 0,03–0,12 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E200R15-CF6 | 2       | 0       | 18,3    | 0,03–0,13 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-2E250R6-CF6  | 2,5     | 0,2     | 18      | 0,03–0,15 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|                                                                                     | DX18-3E300R6-CF6  | 3       | 0,2     | 18      | 0,04–0,19 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-2E200R7-CK8  | 2       | 0       | 18      | 0,04–0,10 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3F300N02-CE4 | 3       | 0,2     | 18      | 0,09–0,33 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |
|  | DX18-3F300N02-CF5 | 3       | 0,2     | 18      | 0,08–0,23 | ±0,05                  | ±0,15                  |        |        |        |        |        |        |        |      |        |        |        |      |

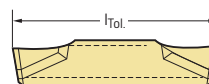
l<sub>Tol</sub> = Repeat accuracy when changing indexable inserts within the same indexable insert batch  
 Radius tolerance r<sub>Tol</sub> = ±0.05 mm

HC = Coated carbide  
 HF = Uncoated fine-grained carbide

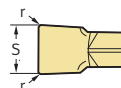
# Grooving and groove turning – Cutting inserts

DX

Tiger-tec® Silver



DX...N



## Cutting inserts

|                                                                                     | Designation       | s<br>mm | r<br>mm | l<br>mm | f<br>mm   | a <sub>p</sub><br>mm | S <sub>Tol</sub><br>mm | l <sub>Tol</sub><br>mm | P<br>HC |        |        |        | M<br>HC |        | K<br>HC |        |        | S<br>HC |        |        |        |
|-------------------------------------------------------------------------------------|-------------------|---------|---------|---------|-----------|----------------------|------------------------|------------------------|---------|--------|--------|--------|---------|--------|---------|--------|--------|---------|--------|--------|--------|
|                                                                                     |                   |         |         |         |           |                      |                        |                        | WKP23S  | WSM23S | WSM33S | WSM43S | WSM23S  | WSM33S | WSM43S  | WKP13S | WKP23S | WKP33S  | WSM23S | WSM33S | WSM43S |
|    | DX18-2E200N02-UF7 | 2       | 0,2     | 18      | 0,05–0,22 | 0,3–1,2              | ±0,05                  | ±0,15                  |         | ☹      | ☹      | ☹      |         | ☹      | ☹       |        |        |         | ☹      | ☹      |        |
|                                                                                     | DX18-3E300N02-UF7 | 3       | 0,2     | 18      | 0,07–0,24 | 0,4–1,5              | ±0,05                  | ±0,15                  |         | ☹      | ☹      | ☹      |         | ☹      | ☹       |        |        |         | ☹      | ☹      |        |
|                                                                                     | DX18-4E400N02-UF7 | 4       | 0,2     | 18      | 0,09–0,30 | 0,3–2,2              | ±0,05                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|    | DX18-1E160N01-UF8 | 1,6     | 0,1     | 18      | 0,05–0,17 | 0,3–1,0              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-1E170N01-UF8 | 1,7     | 0,1     | 18      | 0,05–0,17 | 0,3–1,0              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-1E185N01-UF8 | 1,85    | 0,1     | 18      | 0,05–0,22 | 0,3–1,0              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-1E196N01-UF8 | 1,96    | 0,1     | 18      | 0,05–0,22 | 0,3–1,2              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-2E225N01-UF8 | 2,25    | 0,1     | 18      | 0,05–0,22 | 0,3–1,3              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-2E275N01-UF8 | 2,75    | 0,1     | 18      | 0,06–0,22 | 0,3–1,3              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-3E318N02-UF8 | 3,18    | 0,2     | 18      | 0,07–0,24 | 0,4–1,5              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-3E325N01-UF8 | 3,25    | 0,1     | 18      | 0,07–0,24 | 0,4–1,6              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-4E400N04-UF8 | 4       | 0,4     | 18      | 0,09–0,30 | 0,5–2,2              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|                                                                                     | DX18-4E425N02-UF8 | 4,25    | 0,2     | 18      | 0,09–0,30 | 0,5–2,2              | ±0,02                  | ±0,15                  |         | ☹      |        |        |         | ☹      |         |        |        |         | ☹      |        |        |
|  | DX18-2E200N02-UA4 | 2       | 0,2     | 18      | 0,08–0,18 | 0,3–1,2              | ±0,05                  | ±0,15                  |         |        |        |        |         |        |         |        | ☹      |         |        |        |        |
|                                                                                     | DX18-3E300N03-UA4 | 3       | 0,3     | 18      | 0,10–0,25 | 0,4–2,0              | ±0,05                  | ±0,15                  |         |        |        |        |         |        |         |        | ☹      | ☹       |        |        |        |
|                                                                                     | DX18-4E400N04-UA4 | 4       | 0,4     | 18,5    | 0,10–0,38 | 0,5–2,8              | ±0,05                  | ±0,15                  |         |        |        |        |         |        |         |        | ☹      | ☹       |        |        |        |
|                                                                                     | DX18-4E400N08-UA4 | 4       | 0,8     | 18,5    | 0,10–0,38 | 0,9–2,8              | ±0,05                  | ±0,15                  |         |        |        |        |         |        |         |        | ☹      | ☹       |        |        |        |
|  | DX18-2E200N02-UD4 | 2       | 0,2     | 18      | 0,10–0,18 | 0,3–1,2              | ±0,05                  | ±0,15                  | ☹       |        | ☹      |        |         | ☹      |         |        |        |         |        | ☹      |        |
|                                                                                     | DX18-3E300N03-UD4 | 3       | 0,3     | 18      | 0,10–0,23 | 0,4–2,0              | ±0,05                  | ±0,15                  | ☹       |        | ☹      |        |         | ☹      |         |        |        |         |        | ☹      |        |
|                                                                                     | DX18-4E400N04-UD4 | 4       | 0,4     | 18,5    | 0,10–0,33 | 0,5–2,8              | ±0,05                  | ±0,15                  | ☹       |        | ☹      |        |         | ☹      |         |        |        |         |        | ☹      |        |
|                                                                                     | DX18-4E400N08-UD4 | 4       | 0,8     | 18,5    | 0,10–0,33 | 0,9–2,8              | ±0,05                  | ±0,15                  | ☹       |        | ☹      |        |         | ☹      |         |        |        |         |        | ☹      |        |
|  | DX18-2E200N02-UF4 | 2       | 0,2     | 18      | 0,10–0,18 | 0,3–1,2              | ±0,05                  | ±0,15                  | ☹       | ☹      | ☹      | ☹      | ☹       | ☹      | ☹       | ☹      |        |         | ☹      | ☹      | ☹      |
|                                                                                     | DX18-2E250N02-UF4 | 2,5     | 0,2     | 18      | 0,10–0,21 | 0,3–1,3              | ±0,05                  | ±0,15                  | ☹       | ☹      | ☹      |        |         | ☹      | ☹       |        |        | ☹       |        | ☹      |        |
|                                                                                     | DX18-3E300N03-UF4 | 3       | 0,3     | 18      | 0,10–0,23 | 0,4–2,0              | ±0,05                  | ±0,15                  | ☹       | ☹      | ☹      | ☹      | ☹       | ☹      | ☹       | ☹      |        |         | ☹      | ☹      | ☹      |
|                                                                                     | DX18-4E400N02-UF4 | 4       | 0,2     | 18,5    | 0,10–0,33 | 0,3–2,8              | ±0,05                  | ±0,15                  |         |        |        | ☹      |         | ☹      |         |        |        |         |        | ☹      |        |
|                                                                                     | DX18-4E400N04-UF4 | 4       | 0,4     | 18,5    | 0,10–0,33 | 0,5–2,8              | ±0,05                  | ±0,15                  | ☹       |        | ☹      | ☹      |         | ☹      | ☹       |        |        |         | ☹      | ☹      |        |
|                                                                                     | DX18-4E400N08-UF4 | 4       | 0,8     | 18,5    | 0,10–0,33 | 0,9–2,8              | ±0,05                  | ±0,15                  | ☹       |        | ☹      |        |         | ☹      |         |        |        | ☹       |        | ☹      |        |

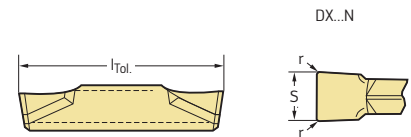
l<sub>Tol</sub> = Repeat accuracy when changing indexable inserts within the same indexable insert batch  
Radius tolerance r<sub>Tol</sub> = ±0.05 mm

HC = Coated carbide

## Grooving and groove turning – Cutting inserts

DX

Tiger-tec® Silver



A2

## Cutting inserts

| Designation       | s<br>mm | r<br>mm | l<br>mm | f<br>mm   | ap<br>mm | STol<br>mm | lTol<br>mm | P      |        |        |        | M      |        |        |        | K      |        |        | S      |        |        |
|-------------------|---------|---------|---------|-----------|----------|------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                   |         |         |         |           |          |            |            | HC     |        |        |        | HC     |        |        |        | HC     |        |        | HC     |        |        |
|                   |         |         |         |           |          |            |            | WKP23S | WSM23S | WSM33S | WSM43S | WKP23S | WSM23S | WSM33S | WSM43S | WKP13S | WKP23S | WKP33S | WSM23S | WSM33S | WSM43S |
| DX18-4F400N04-UF4 | 4       | 0,4     | 18,5    | 0,10–0,33 | 0,5–2,8  | ±0,05      | ±0,15      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

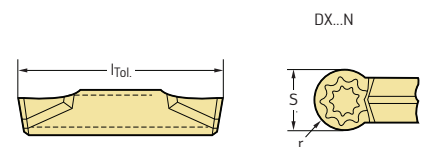
lTol = Repeat accuracy when changing indexable inserts within the same indexable insert batch  
 Radius tolerance rTol = ±0.05 mm

HC = Coated carbide

## Grooving and copy turning – Cutting inserts

DX

Tiger-tec® Silver



## Cutting inserts

| Designation       | s<br>mm | r<br>mm | l<br>mm | f<br>mm   | ap<br>mm | STol<br>mm | lTol<br>mm | P      |        |        |        | M      |        |        |        | K      |        |        | S      |  |  |
|-------------------|---------|---------|---------|-----------|----------|------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|                   |         |         |         |           |          |            |            | HC     |        |        |        | HC     |        |        |        | HC     |        |        | HC     |  |  |
|                   |         |         |         |           |          |            |            | WKP23S | WSM13S | WSM23S | WSM33S | WKP13S | WSM13S | WSM23S | WSM33S | WKP23S | WSM13S | WSM23S | WSM33S |  |  |
| DX18-2E200N10-RD4 | 2       | 1       | 18,3    | 0,08–0,28 | 0,2–1,0  | ±0,05      | ±0,15      |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| DX18-3E300N15-RD4 | 3       | 1,5     | 18,3    | 0,10–0,38 | 0,5–1,5  | ±0,05      | ±0,15      |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| DX18-2E200N10-RF7 | 2       | 1       | 18,3    | 0,08–0,26 | 0,1–1,0  | ±0,05      | ±0,15      |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| DX18-3E300N15-RF7 | 3       | 1,5     | 18,3    | 0,10–0,33 | 0,1–1,5  | ±0,05      | ±0,15      |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| DX18-4E400N20-RF7 | 4       | 2       | 18,5    | 0,12–0,48 | 0,1–2,0  | ±0,05      | ±0,15      |        |        |        |        |        |        |        |        |        |        |        |        |  |  |

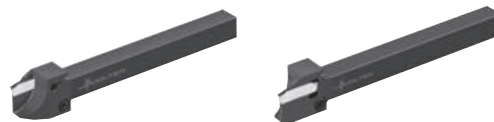
lTol = Repeat accuracy when changing indexable inserts within the same indexable insert batch  
 Radius tolerance rTol = ±0.05 mm

HC = Coated carbide

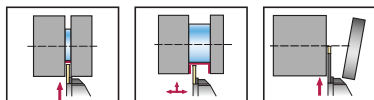
# Shank tool – Radial grooving

G4014 

Walter Cut



– Side screw clamping



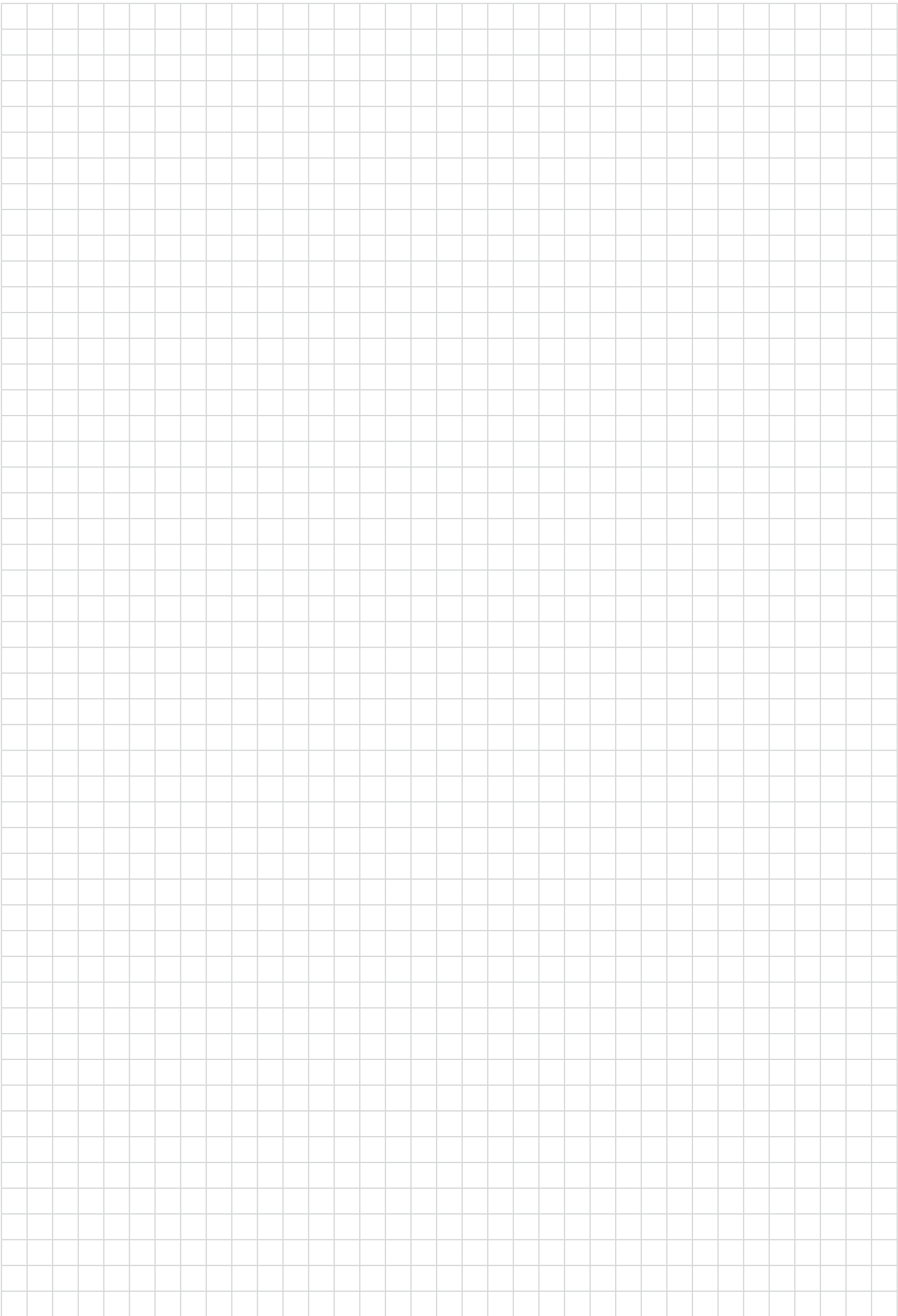
| Tool             | Designation            | s<br>mm | D <sub>max</sub><br>mm | b<br>mm | h =<br>h <sub>1</sub><br>mm | f <sub>1</sub><br>mm | l <sub>1</sub><br>mm | h <sub>4</sub><br>mm | l <sub>4</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------|------------------------|---------|------------------------|---------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|
| Square shank<br> | ★ G4014-1010R-1T12DX18 | 1       | 25                     | 10      | 10                          | 9,6                  | 110                  | 4                    | 23                   | 0,8                  | DX18-1E1 ..                |
|                  | ★ G4014-1212R-1T12DX18 |         | 25                     | 12      | 12                          | 11,6                 | 110                  | 3                    | 22,3                 | 0,8                  |                            |
|                  | G4014-1010R-1.5T10DX18 | 1,5     | 20                     | 10      | 10                          | 9,4                  | 110                  | 4                    | 22                   | 1,2                  | DX18-1E1.5 ..              |
|                  | G4014-1212R-1.5T12DX18 |         | 25                     | 12      | 12                          | 11,4                 | 110                  | 3                    | 22,3                 | 1,2                  |                            |
|                  | G4014-1616R-1.5T12DX18 |         | 25                     | 16      | 16                          | 15,4                 | 120                  | 4                    | 24                   | 1,2                  |                            |
|                  | G4014-1010R-2T10DX18   | 2       | 20                     | 10      | 10                          | 9,2                  | 110                  | 4                    | 22                   | 1,6                  | DX18-2E2 ..                |
|                  | G4014-1212R-2T12DX18   |         | 25                     | 12      | 12                          | 11,2                 | 110                  | 3                    | 22,3                 | 1,6                  |                            |
|                  | G4014-1616R-2T12DX18   |         | 25                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 24                   | 1,6                  |                            |
|                  | ★ G4014-1616R-2T17DX18 |         | 35                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 30                   | 1,6                  |                            |
|                  | ★ G4014-2020R-2T17DX18 |         | 35                     | 20      | 20                          | 19,2                 | 120                  | 3                    | 30                   | 1,6                  |                            |
|                  | G4014-1212R-3T12DX18   | 3       | 25                     | 12      | 12                          | 10,8                 | 110                  | 3                    | 22,3                 | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                  | G4014-1616R-3T17DX18   |         | 35                     | 16      | 16                          | 14,8                 | 120                  | 4                    | 30                   | 2,4                  |                            |
|                  | G4014-2020R-3T17DX18   |         | 35                     | 20      | 20                          | 18,8                 | 120                  | 3                    | 30                   | 2,4                  |                            |
| Square shank<br> | ★ G4014-1010L-1T12DX18 | 1       | 25                     | 10      | 10                          | 9,6                  | 110                  | 4                    | 23                   | 0,8                  | DX18-1E1 ..                |
|                  | G4014-1010L-1.5T10DX18 | 1,5     | 20                     | 10      | 10                          | 9,4                  | 110                  | 4                    | 22                   | 1,2                  | DX18-1E1.5 ..              |
|                  | G4014-1212L-1.5T12DX18 |         | 25                     | 12      | 12                          | 11,4                 | 110                  | 3                    | 22,3                 | 1,2                  |                            |
|                  | G4014-1616L-1.5T12DX18 |         | 25                     | 16      | 16                          | 15,4                 | 120                  | 4                    | 24                   | 1,2                  |                            |
|                  | G4014-1010L-2T10DX18   | 2       | 20                     | 10      | 10                          | 9,2                  | 110                  | 4                    | 22                   | 1,6                  | DX18-2E2 ..                |
|                  | G4014-1212L-2T12DX18   |         | 25                     | 12      | 12                          | 11,2                 | 110                  | 3                    | 22,3                 | 1,6                  |                            |
|                  | G4014-1616L-2T12DX18   |         | 25                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 24                   | 1,6                  |                            |
|                  | ★ G4014-1616L-2T17DX18 |         | 35                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 30                   | 1,6                  |                            |
|                  | ★ G4014-2020L-2T17DX18 |         | 35                     | 20      | 20                          | 19,2                 | 120                  | 3                    | 30                   | 1,6                  |                            |
|                  | G4014-1212L-3T12DX18   | 3       | 25                     | 12      | 12                          | 10,8                 | 110                  | 3                    | 22,3                 | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                  | G4014-1616L-3T17DX18   |         | 35                     | 16      | 16                          | 14,8                 | 120                  | 4                    | 30                   | 2,4                  |                            |
|                  | G4014-2020L-3T17DX18   |         | 35                     | 20      | 20                          | 18,8                 | 120                  | 3                    | 30                   | 2,4                  |                            |

$$f = f_1 + s/2$$

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts |                                    | h = h <sub>1</sub> [mm] | 10–12                  | 16–20                  |
|----------------|------------------------------------|-------------------------|------------------------|------------------------|
|                | Clamping screw for grooving insert |                         | FS2586 (T15IP)<br>2 Nm | FS2585 (T15IP)<br>3 Nm |
|                | Blanking plug                      |                         | FS2589                 | FS2589                 |
|                | Torx key                           |                         | FS1465 (T15IP)         | FS1465 (T15IP)         |

| Accessories |                              | h = h <sub>1</sub> [mm] | 10–20          |
|-------------|------------------------------|-------------------------|----------------|
|             | Torque screwdriver, analogue |                         | FS2003         |
|             | Interchangeable blade        |                         | FS2014 (T15IP) |



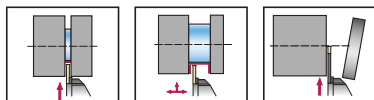
# Shank tool – Radial grooving

G4014...-P 

Walter Cut



- Side screw clamping
- Precision cooling



| Tool             |                          | s   | D <sub>max</sub> | b  | h = h <sub>1</sub> | f <sub>1</sub> | l <sub>1</sub> | h <sub>4</sub> | l <sub>4</sub> | s <sub>1</sub> | Type                       |
|------------------|--------------------------|-----|------------------|----|--------------------|----------------|----------------|----------------|----------------|----------------|----------------------------|
| Square shank<br> | Designation              | mm  | mm               | mm | mm                 | mm             | mm             | mm             | mm             | mm             |                            |
|                  | G4014-1212R-2T12DX18-P   | 2   | 25               | 12 | 12                 | 11,2           | 110            | 3              | 22,3           | 1,6            | DX18-2E2 ..                |
|                  | G4014-1212R-2.5T12DX18-P | 2,5 | 25               | 12 | 12                 | 11             | 110            | 3              | 22,3           | 2,1            | DX18-2E2.5 ..              |
|                  | G4014-1212R-3T12DX18-P   | 3   | 25               | 12 | 12                 | 10,8           | 110            | 3              | 22,3           | 2,4            | DX18-3E3 ..<br>DX18-3F3 .. |
| Square shank<br> | Designation              | mm  | mm               | mm | mm                 | mm             | mm             | mm             | mm             | mm             |                            |
|                  | G4014-1212L-2T12DX18-P   | 2   | 25               | 12 | 12                 | 11,2           | 110            | 3              | 22,3           | 1,6            | DX18-2E2 ..                |
|                  | G4014-1212L-2.5T12DX18-P | 2,5 | 25               | 12 | 12                 | 11             | 110            | 3              | 22,3           | 2,1            | DX18-2E2.5 ..              |
|                  | G4014-1212L-3T12DX18-P   | 3   | 25               | 12 | 12                 | 10,8           | 110            | 3              | 22,3           | 2,4            | DX18-3E3 ..<br>DX18-3F3 .. |

$$f = f_1 + s/2$$

The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

| h = h <sub>1</sub> [mm] |                                    | 12                     |
|-------------------------|------------------------------------|------------------------|
|                         | Clamping screw for grooving insert | FS2586 (T15IP)<br>2 Nm |
|                         | Blanking plug                      | FS2589                 |
|                         | M8x1 threaded plug                 | FS2587 (SW 4)          |
|                         | Torx key                           | FS1465 (T15IP)         |

## Accessories

| h = h <sub>1</sub> [mm] |                              | 12             |
|-------------------------|------------------------------|----------------|
|                         | Torque screwdriver, analogue | FS2003         |
|                         | Interchangeable blade        | FS2014 (T15IP) |

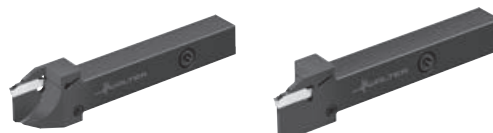


| Accessories                                                                       |                         | h = h <sub>1</sub> [mm] | 12     |
|-----------------------------------------------------------------------------------|-------------------------|-------------------------|--------|
|  | M8x1 angle connection   |                         | FS2596 |
|  | M8x1 connection element |                         | FS2597 |
|  | Copper gasket           |                         | FS2598 |

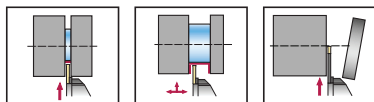
# Shank tool – Radial grooving

G4014...-P mm

Walter Cut



- Side screw clamping
- Precision cooling



| Tool             | Designation              | s<br>mm | D <sub>max</sub><br>mm | b<br>mm | h =<br>h <sub>1</sub><br>mm | f <sub>1</sub><br>mm | l <sub>1</sub><br>mm | h <sub>4</sub><br>mm | l <sub>4</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------|--------------------------|---------|------------------------|---------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|
| <br>Square shank | G4014-1616R-2T12DX18-P   | 2       | 25                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 24                   | 1,6                  | DX18-2E2 ..                |
|                  | G4014-1616R-2T17DX18-P   |         | 35                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 30                   | 1,6                  |                            |
|                  | G4014-1616R-2.5T17DX18-P | 2,5     | 35                     | 16      | 16                          | 15                   | 120                  | 4                    | 30                   | 2,1                  | DX18-2E2.5 ..              |
|                  | G4014-1616R-3T17DX18-P   | 3       | 35                     | 16      | 16                          | 14,8                 | 120                  | 4                    | 30                   | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
| <br>Square shank | G4014-1616L-2T12DX18-P   | 2       | 25                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 24                   | 1,6                  | DX18-2E2 ..                |
|                  | G4014-1616L-2T17DX18-P   |         | 35                     | 16      | 16                          | 15,2                 | 120                  | 4                    | 30                   | 1,6                  |                            |
|                  | G4014-1616L-2.5T17DX18-P | 2,5     | 35                     | 16      | 16                          | 15                   | 120                  | 4                    | 30                   | 2,1                  | DX18-2E2.5 ..              |
|                  | G4014-1616L-3T17DX18-P   | 3       | 35                     | 16      | 16                          | 14,8                 | 120                  | 4                    | 30                   | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |

$$f = f_1 + s/2$$

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

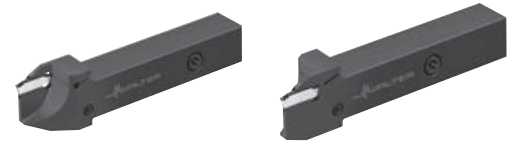
| Assembly parts |                                    | h = h <sub>1</sub> [mm] | 16                     |
|----------------|------------------------------------|-------------------------|------------------------|
|                | Clamping screw for grooving insert |                         | FS2585 (T15IP)<br>3 Nm |
|                | Blanking plug                      |                         | FS2589                 |
|                | G 1/8" threaded plug               |                         | FS2258 (SW 2)          |
|                | Torx key                           |                         | FS1465 (T15IP)         |

| Accessories |                              | h = h <sub>1</sub> [mm] | 16             |
|-------------|------------------------------|-------------------------|----------------|
|             | Torque screwdriver, analogue |                         | FS2003         |
|             | Interchangeable blade        |                         | FS2014 (T15IP) |

## Shank tool – Radial grooving

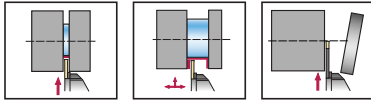
G4014...-P

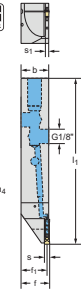
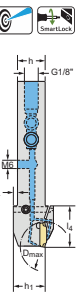
**Walter Cut**



A2

- Side screw clamping
- Precision cooling



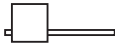
| Tool                                                                                                                                                                                                                                                                        |                        | s  | D <sub>max</sub> | b  | h = h <sub>1</sub> | f <sub>1</sub> | l <sub>1</sub> | h <sub>4</sub> | l <sub>4</sub> | s <sub>1</sub> | Type                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----|------------------|----|--------------------|----------------|----------------|----------------|----------------|----------------|----------------------------|
| Designation                                                                                                                                                                                                                                                                 |                        | mm | mm               | mm | mm                 | mm             | mm             | mm             | mm             | mm             |                            |
| Square shank<br>         | G4014-2020R-2T17DX18-P | 2  | 35               | 20 | 20                 | 19,2           | 120            | 3              | 30             | 1,6            | DX18-2E2 ..                |
|                                                                                                                                                                                                                                                                             | G4014-2020R-3T17DX18-P | 3  | 35               | 20 | 20                 | 18,8           | 120            | 3              | 30             | 2,4            | DX18-3E3 ..<br>DX18-3F3 .. |
| Square shank<br>   | G4014-2020L-2T17DX18-P | 2  | 35               | 20 | 20                 | 19,2           | 120            | 3              | 30             | 1,6            | DX18-2E2 ..                |
|                                                                                                                                                                                                                                                                             | G4014-2020L-3T17DX18-P | 3  | 35               | 20 | 20                 | 18,8           | 120            | 3              | 30             | 2,4            | DX18-3E3 ..<br>DX18-3F3 .. |

$$f = f_1 + s/2$$

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

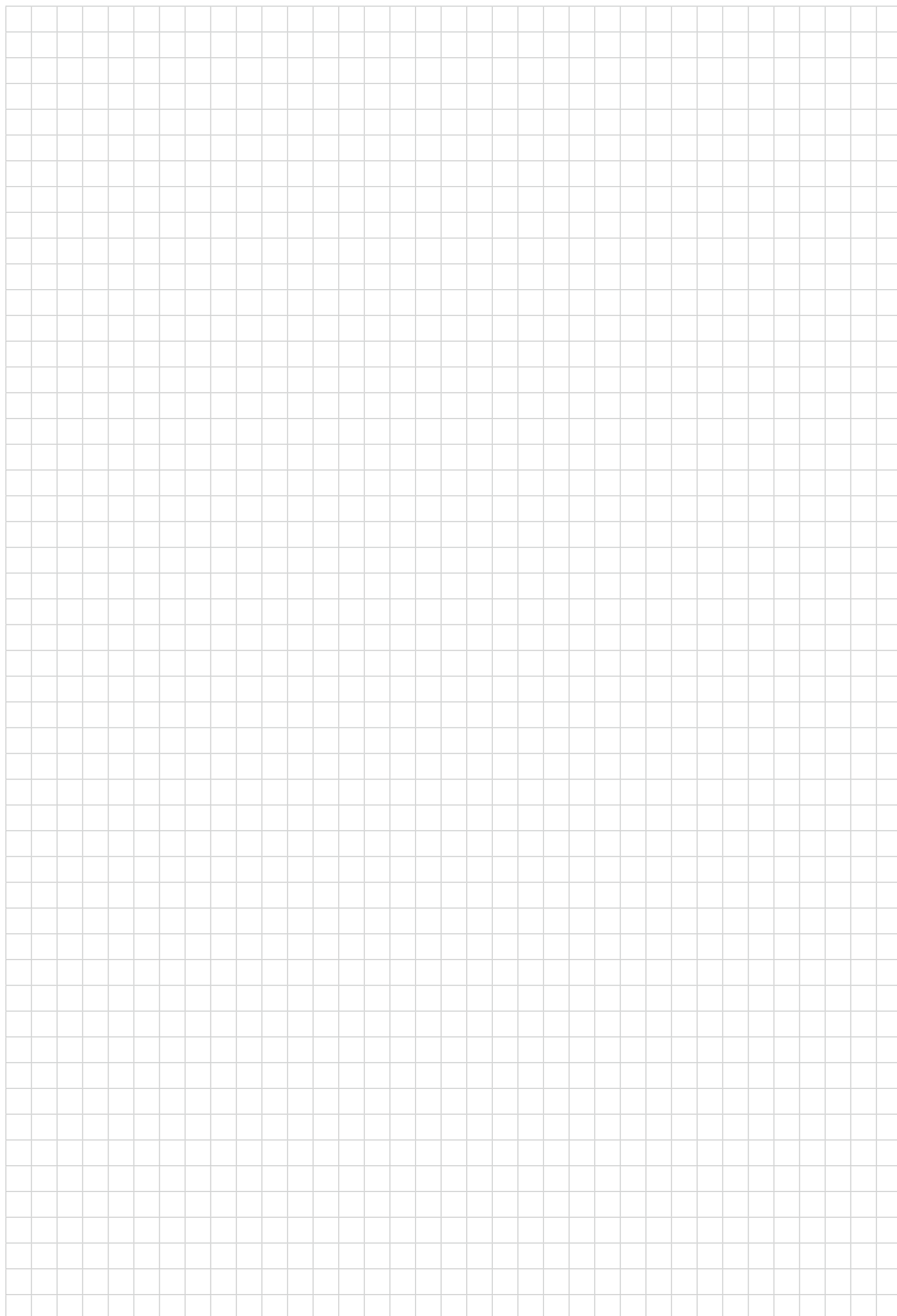
The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                                           |                                    | h = h <sub>1</sub> [mm] | 20                     |
|----------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|------------------------|
|                       | Clamping screw for grooving insert |                         | FS2585 (T15IP)<br>3 Nm |
|                       | Blanking plug                      |                         | FS2589                 |
|  | G 1/8" threaded plug               |                         | FS2258 (SW 2)          |
|                       | M6 threaded plug                   |                         | FS2288 (SW 3)          |
|                       | Torx key                           |                         | FS1465 (T15IP)         |

| Accessories                                                                         |                              | h = h <sub>1</sub> [mm] | 20             |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------|----------------|
|  | Torque screwdriver, analogue |                         | FS2003         |
|  | Interchangeable blade        |                         | FS2014 (T15IP) |

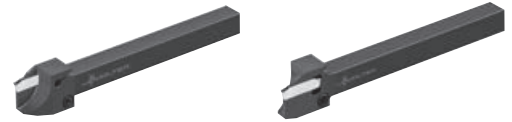
A2



## Shank tool – Radial grooving

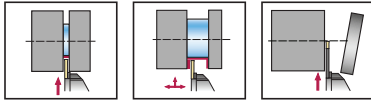
G4014 inch

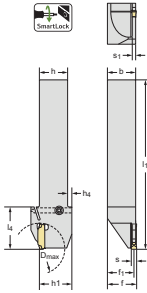
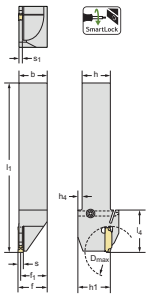
Walter Cut



A2

– Side screw clamping



| Tool                                                                                                |                      | s     | D <sub>max</sub> | b     | h = h <sub>1</sub> | f <sub>1</sub> | l <sub>1</sub> | h <sub>4</sub> | l <sub>4</sub> | s <sub>1</sub> | Type                       |
|-----------------------------------------------------------------------------------------------------|----------------------|-------|------------------|-------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------------------|
|                                                                                                     | Designation          | inch  | inch             | inch  | inch               | inch           | inch           | inch           | inch           | inch           |                            |
| Square shank<br>   | G4014.08R-1.5T12DX18 | 0,059 | 0,984            | 0,500 | 0,500              | 0,476          | 4,331          | 0,091          | 0,878          | 0,047          | DX18-1E1.5 ..              |
|                                                                                                     | G4014.08L-1.5T12DX18 | 0,059 | 0,984            | 0,500 | 0,500              | 0,476          | 4,331          | 0,091          | 0,878          | 0,047          | DX18-1E1.5 ..              |
| Square shank<br> | ★ G4014.10L-3T17DX18 | 0,118 | 1,378            | 0,625 | 0,625              | 0,579          | 4,724          | 0,161          | 1,181          | 0,094          | DX18-3E3 ..<br>DX18-3F3 .. |

$$f = f_1 + s/2$$

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                    | h = h <sub>1</sub> [mm] | 0,5                    | 0,62                   |
|-------------------------------------------------------------------------------------|------------------------------------|-------------------------|------------------------|------------------------|
|  | Clamping screw for grooving insert |                         | FS2586 (T15IP)<br>2 Nm | FS2585 (T15IP)<br>3 Nm |
|  | Blanking plug                      |                         | FS2589                 | FS2589                 |
|  | Torx key                           |                         | FS1465 (T15IP)         | FS1465 (T15IP)         |

| Accessories                                                                         |                              | h = h <sub>1</sub> [mm] | 0,5–0,62       |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------|----------------|
|  | Torque screwdriver, analogue |                         | FS2003         |
|  | Interchangeable blade        |                         | FS2014 (T15IP) |

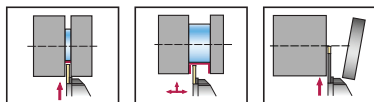
# Shank tool – Radial grooving

G4014...-P inch

Walter Cut



- Side screw clamping
- Precision cooling



| Tool             |                      | s     | D <sub>max</sub> | b     | h = h <sub>1</sub> | f <sub>1</sub> | l <sub>1</sub> | h <sub>4</sub> | l <sub>4</sub> | s <sub>1</sub> | Type                       |
|------------------|----------------------|-------|------------------|-------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------------------|
| Designation      |                      | inch  | inch             | inch  | inch               | inch           | inch           | inch           | inch           | inch           |                            |
| Square shank<br> | G4014.08R-2T12DX18-P | 0,079 | 0,984            | 0,500 | 0,500              | 0,469          | 4,331          | 0,091          | 0,878          | 0,063          | DX18-2E2 ..                |
|                  | G4014.08R-3T12DX18-P | 0,118 | 0,984            | 0,500 | 0,500              | 0,453          | 4,331          | 0,091          | 0,878          | 0,094          | DX18-3E3 ..<br>DX18-3F3 .. |
| Square shank<br> | G4014.08L-2T12DX18-P | 0,079 | 0,984            | 0,500 | 0,500              | 0,469          | 4,331          | 0,091          | 0,878          | 0,063          | DX18-2E2 ..                |
|                  | G4014.08L-3T12DX18-P | 0,118 | 0,984            | 0,500 | 0,500              | 0,453          | 4,331          | 0,091          | 0,878          | 0,094          | DX18-3E3 ..<br>DX18-3F3 .. |

$$f = f_1 + s/2$$

The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

| h = h <sub>1</sub> [mm] |                                    | 0,5                    |
|-------------------------|------------------------------------|------------------------|
|                         | Clamping screw for grooving insert | FS2586 (T15IP)<br>2 Nm |
|                         | Blanking plug                      | FS2589                 |
|                         | UNF 5/16-24 threaded plug          | FS2593 (SW 4)          |
|                         | Torx key                           | FS1465 (T15IP)         |

## Accessories

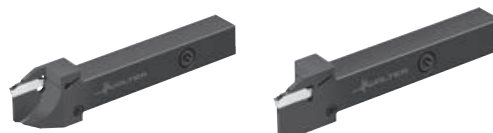
| h = h <sub>1</sub> [mm] |                              | 0,5            |
|-------------------------|------------------------------|----------------|
|                         | Torque screwdriver, analogue | FS2003         |
|                         | Interchangeable blade        | FS2014 (T15IP) |

| Accessories                                                                       |                              |        |
|-----------------------------------------------------------------------------------|------------------------------|--------|
|                                                                                   | $h = h_1$ [mm]               | 0,5    |
|  | 5/16" UNF angle connection   | FS2594 |
|  | 5/16" UNF connection element | FS2595 |
|  | Copper gasket                | FS2598 |

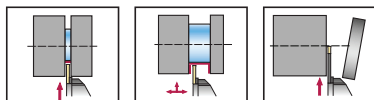
# Shank tool – Radial grooving

G4014...-P inch

Walter Cut



- Side screw clamping
- Precision cooling



| Tool             | Designation          | s<br>inch | D <sub>max</sub><br>inch | b<br>inch | h =<br>h <sub>1</sub><br>inch | f <sub>1</sub><br>inch | l <sub>1</sub><br>inch | h <sub>4</sub><br>inch | l <sub>4</sub><br>inch | s <sub>1</sub><br>inch | Type                       |
|------------------|----------------------|-----------|--------------------------|-----------|-------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------------|
| Square shank<br> | G4014.10R-2T17DX18-P | 0,079     | 1,378                    | 0,625     | 0,625                         | 0,594                  | 4,724                  | 0,161                  | 1,181                  | 0,063                  | DX18-2E2 ..                |
|                  | G4014.12R-2T17DX18-P |           | 1,378                    | 0,750     | 0,750                         | 0,717                  | 4,724                  | 0,118                  | 1,181                  | 0,063                  |                            |
|                  | G4014.10R-3T17DX18-P | 0,118     | 1,378                    | 0,625     | 0,625                         | 0,579                  | 4,724                  | 0,161                  | 1,181                  | 0,094                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                  | G4014.12R-3T17DX18-P |           | 1,378                    | 0,750     | 0,750                         | 0,701                  | 4,724                  | 0,118                  | 1,181                  | 0,094                  |                            |
| Square shank<br> | G4014.10L-2T17DX18-P | 0,079     | 1,378                    | 0,625     | 0,625                         | 0,594                  | 4,724                  | 0,161                  | 1,181                  | 0,063                  | DX18-2E2 ..                |
|                  | G4014.12L-2T17DX18-P |           | 1,378                    | 0,750     | 0,750                         | 0,717                  | 4,724                  | 0,118                  | 1,181                  | 0,063                  |                            |
|                  | G4014.10L-3T17DX18-P | 0,118     | 1,378                    | 0,625     | 0,625                         | 0,579                  | 4,724                  | 0,161                  | 1,181                  | 0,094                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                  | G4014.12L-3T17DX18-P |           | 1,378                    | 0,750     | 0,750                         | 0,701                  | 4,724                  | 0,118                  | 1,181                  | 0,094                  |                            |

$$f = f_1 + s/2$$

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

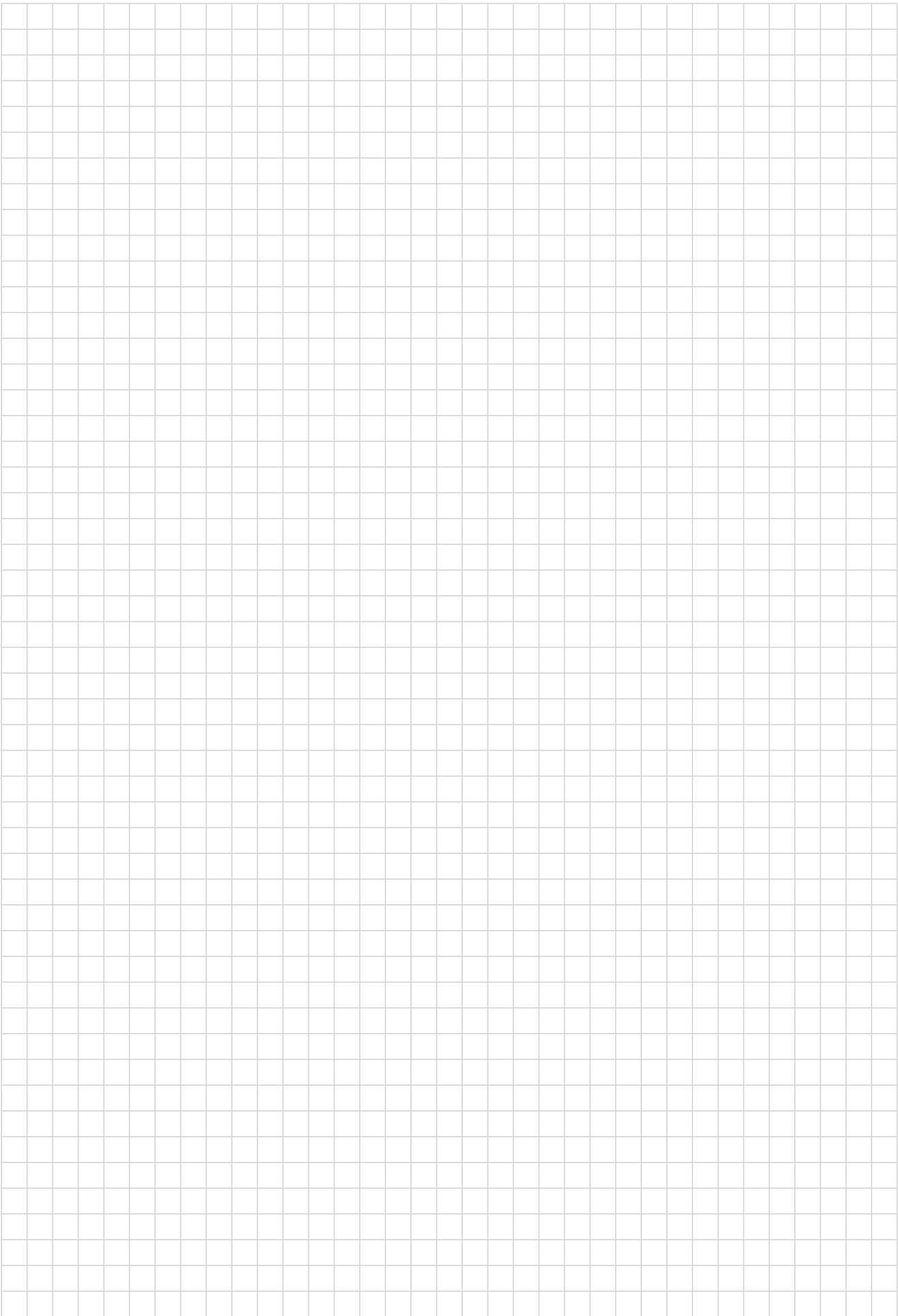
The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts |                                    | h = h <sub>1</sub> [mm] | 0,62                   | 0,75                   |
|----------------|------------------------------------|-------------------------|------------------------|------------------------|
|                | Clamping screw for grooving insert |                         | FS2585 (T15IP)<br>3 Nm | FS2585 (T15IP)<br>3 Nm |
|                | Blanking plug                      |                         | FS2589                 | FS2589                 |
|                | G 1/8" threaded plug               |                         | FS2258 (SW 2)          | FS2258 (SW 2)          |
|                | M6 threaded plug                   |                         |                        | FS2288 (SW 3)          |
|                | Torx key                           |                         | FS1465 (T15IP)         | FS1465 (T15IP)         |

| Accessories |                              | h = h <sub>1</sub> [mm] | 0,62–0,75      |
|-------------|------------------------------|-------------------------|----------------|
|             | Torque screwdriver, analogue |                         | FS2003         |
|             | Interchangeable blade        |                         | FS2014 (T15IP) |

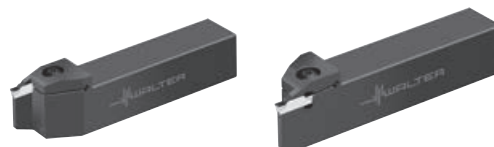




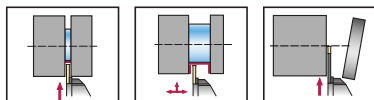
# Shank tool – Radial grooving

G4011 

Walter Cut



– Screw clamping



| Tool             |                        | s  | T <sub>max</sub> | D <sub>max</sub> | h = h <sub>1</sub> | b  | f <sub>1</sub> | l <sub>1</sub> | l <sub>4</sub> | s <sub>1</sub> | Type        |
|------------------|------------------------|----|------------------|------------------|--------------------|----|----------------|----------------|----------------|----------------|-------------|
| Designation      |                        | mm | mm               | mm               | mm                 | mm | mm             | mm             | mm             | mm             |             |
| Square shank<br> | ★ G4011-2020R-2T10DX18 | 2  | 10               |                  | 20                 | 20 | 19,2           | 125            | 33,5           | 1,6            | DX18-2E2 .. |
|                  | G4011-2525R-2T10DX18   |    | 10               |                  | 25                 | 25 | 24,2           | 125            | 28             | 1,6            |             |
|                  | G4011-2020R-3T10DX18   | 3  | 10               |                  | 20                 | 20 | 18,8           | 125            | 33,5           | 2,4            | DX18-3E3 .. |
|                  | G4011-2525R-3T10DX18   |    | 10               |                  | 25                 | 25 | 23,8           | 125            | 28             | 2,4            | DX18-3F3 .. |
|                  | G4011-2020R-4T10DX18   | 4  | 10               |                  | 20                 | 20 | 18,3           | 125            | 33,5           | 3,4            | DX18-4E4 .. |
|                  | G4011-2020R-4T17DX18   |    | 17               |                  | 20                 | 20 | 18,3           | 125            | 33,5           | 3,4            | DX18-4F4 .. |
|                  | G4011-2525R-4T10DX18   |    | 10               |                  | 25                 | 25 | 23,2           | 125            | 33,5           | 3,4            |             |
|                  | G4011-2525R-4T17DX18   |    | 17               |                  | 25                 | 25 | 23,2           | 125            | 33,5           | 3,4            |             |
| Square shank<br> | ★ G4011-2020L-2T10DX18 | 2  | 10               |                  | 20                 | 20 | 19,2           | 125            | 33,5           | 1,6            | DX18-2E2 .. |
|                  | G4011-2525L-2T10DX18   |    | 10               |                  | 25                 | 25 | 24,2           | 125            | 28             | 1,6            |             |
|                  | G4011-2020L-3T10DX18   | 3  | 10               |                  | 20                 | 20 | 18,8           | 125            | 33,5           | 2,4            | DX18-3E3 .. |
|                  | G4011-2525L-3T10DX18   |    | 10               |                  | 25                 | 25 | 23,8           | 125            | 28             | 2,4            | DX18-3F3 .. |
|                  | G4011-2020L-4T10DX18   | 4  | 10               |                  | 20                 | 20 | 18,3           | 125            | 33,5           | 3,4            | DX18-4E4 .. |
|                  | G4011-2020L-4T17DX18   |    | 17               |                  | 20                 | 20 | 18,3           | 125            | 33,5           | 3,4            | DX18-4F4 .. |
|                  | G4011-2525L-4T10DX18   |    | 10               |                  | 25                 | 25 | 23,2           | 125            | 33,5           | 3,4            |             |
|                  | G4011-2525L-4T17DX18   |    | 17               |                  | 25                 | 25 | 23,2           | 125            | 33,5           | 3,4            |             |

$$f = f_1 + s/2$$

If no D<sub>2</sub> or D<sub>max</sub> is specified, the tool has no diameter limit.

Bodies and assembly parts are included in the scope of delivery.

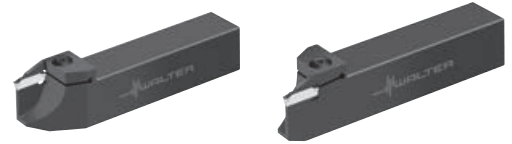
## Assembly parts

| h = h <sub>1</sub> [mm] |                                    | 20–25          |
|-------------------------|------------------------------------|----------------|
|                         | Clamping screw for grooving insert | FS2118 (T20IP) |
|                         | Tightening torque                  | 5 Nm           |
|                         | Torx key                           | FS1464 (T20IP) |

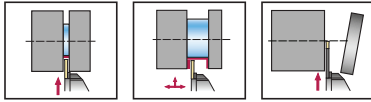
## Shank tool – Radial grooving

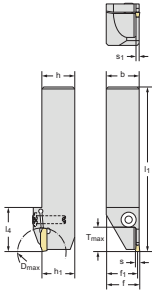
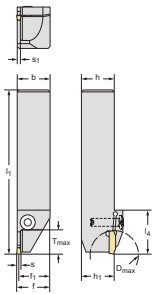
G4011 

Walter Cut



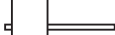
A2



| Tool                                                                                                |                        | s<br>mm | T <sub>max</sub><br>mm | D <sub>max</sub><br>mm | h =<br>h <sub>1</sub><br>mm | b<br>mm | f <sub>1</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|-----------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|------------------------|-----------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------------|
| Square shank<br>   | G4011-2525R-2T17DX18   | 2       | 17                     | 35                     | 25                          | 25      | 24,2                 | 125                  | 33,5                 | 1,6                  | DX18-2E2 ..                |
|                                                                                                     | G4011-2525R-2.5T17DX18 | 2,5     | 17                     | 35                     | 25                          | 25      | 24                   | 125                  | 33,5                 | 2,1                  | DX18-2E2.5 ..              |
|                                                                                                     | G4011-2525R-3T17DX18   | 3       | 17                     | 35                     | 25                          | 25      | 23,8                 | 125                  | 33,5                 | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                     |                        |         |                        |                        |                             |         |                      |                      |                      |                      |                            |
| Square shank<br> | G4011-2525L-2T17DX18   | 2       | 17                     | 35                     | 25                          | 25      | 24,2                 | 125                  | 33,5                 | 1,6                  | DX18-2E2 ..                |
|                                                                                                     | G4011-2525L-2.5T17DX18 | 2,5     | 17                     | 35                     | 25                          | 25      | 24                   | 125                  | 33,5                 | 2,1                  | DX18-2E2.5 ..              |
|                                                                                                     | G4011-2525L-3T17DX18   | 3       | 17                     | 35                     | 25                          | 25      | 23,8                 | 125                  | 33,5                 | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                     |                        |         |                        |                        |                             |         |                      |                      |                      |                      |                            |

$$f = f_1 + s/2$$

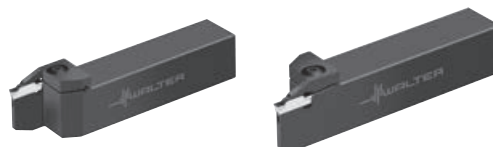
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 25                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | Torx key                                                |                         | FS1464 (T20IP)         |

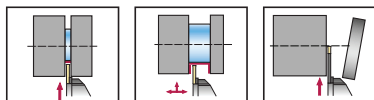
# Shank tool – Radial grooving

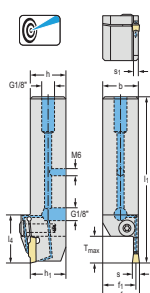
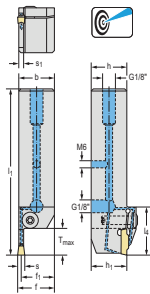
G4011...-P 

Walter Cut



- Screw clamping
- Precision cooling



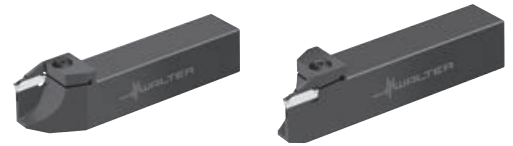
| Tool                                                                                                                                                 |                        | s<br>mm | T <sub>max</sub><br>mm | D <sub>max</sub><br>mm | h =<br>h <sub>1</sub><br>mm | b<br>mm | f <sub>1</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|------------------------|------------------------|-----------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------------|
| Square shank<br>   | G4011-2020R-4T17DX18-P | 4       | 17                     |                        | 20                          | 20      | 18,3                 | 125                  | 33,5                 | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |
|                                                                                                                                                      | G4011-2525R-4T17DX18-P |         | 17                     |                        | 25                          | 25      | 23,3                 | 125                  | 33,5                 | 3,4                  |                            |
| Square shank<br> | G4011-2020L-4T17DX18-P | 4       | 17                     |                        | 20                          | 20      | 18,3                 | 125                  | 33,5                 | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |
|                                                                                                                                                      | G4011-2525L-4T17DX18-P |         | 17                     |                        | 25                          | 25      | 23,3                 | 125                  | 33,5                 | 3,4                  |                            |

The maximum recommended coolant pressure is 150 bar (2175 psi)

If no D<sub>2</sub> or D<sub>max</sub> is specified, the tool has no diameter limit.

Bodies and assembly parts are included in the scope of delivery.

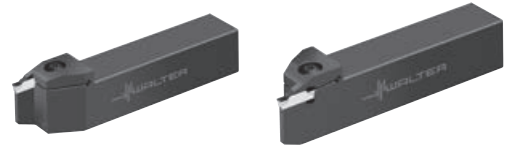
| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 20–25                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | G 1/8" threaded plug                                    |                         | FS2258 (SW 2)          |
|  | Torx key                                                |                         | FS1464 (T20IP)         |



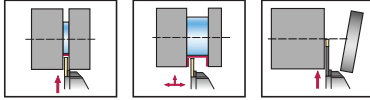
# Shank tool – Radial grooving

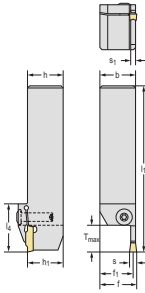
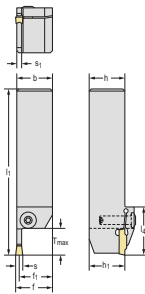
G4011 inch

Walter Cut



– Screw clamping



| Tool                                                                                                |                      | s     | T <sub>max</sub> | D <sub>max</sub> | h = h <sub>1</sub> | b     | f <sub>1</sub> | l <sub>1</sub> | l <sub>4</sub> | s <sub>1</sub> | Type                       |
|-----------------------------------------------------------------------------------------------------|----------------------|-------|------------------|------------------|--------------------|-------|----------------|----------------|----------------|----------------|----------------------------|
|                                                                                                     | Designation          | inch  | inch             | inch             | inch               | inch  | inch           | inch           | inch           | inch           |                            |
| Square shank<br>   | ★ G4011.12R-2T10DX18 | 0,079 | 0,394            |                  | 0,750              | 0,750 | 0,717          | 4,921          | 1,102          | 0,063          | DX18-2E2 ..                |
|                                                                                                     | G4011.16R-2T10DX18   |       | 0,394            |                  | 1,000              | 1,000 | 0,969          | 4,921          | 1,102          | 0,063          |                            |
|                                                                                                     | G4011.16R-3T10DX18   | 0,118 | 0,394            |                  | 1,000              | 1,000 | 0,953          | 4,921          | 1,102          | 0,094          | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                     | G4011.12R-4T17DX18   | 0,157 | 0,669            |                  | 0,750              | 0,750 | 0,685          | 4,921          | 1,319          | 0,134          | DX18-4E4 ..<br>DX18-4F4 .. |
|                                                                                                     | G4011.16R-4T17DX18   |       | 0,669            |                  | 1,000              | 1,000 | 0,933          | 4,921          | 1,319          | 0,134          |                            |
|                                                                                                     |                      |       |                  |                  |                    |       |                |                |                |                |                            |
| Square shank<br> | G4011.16L-2T10DX18   | 0,079 | 0,394            |                  | 1,000              | 1,000 | 0,969          | 4,921          | 1,102          | 0,063          | DX18-2E2 ..                |
|                                                                                                     | G4011.16L-3T10DX18   | 0,118 | 0,394            |                  | 1,000              | 1,000 | 0,953          | 4,921          | 1,102          | 0,094          | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                     | G4011.12L-4T17DX18   | 0,157 | 0,669            |                  | 0,750              | 0,750 | 0,685          | 4,921          | 1,319          | 0,134          | DX18-4E4 ..<br>DX18-4F4 .. |
|                                                                                                     | G4011.16L-4T17DX18   |       | 0,669            |                  | 1,000              | 1,000 | 0,933          | 4,921          | 1,319          | 0,134          |                            |
|                                                                                                     |                      |       |                  |                  |                    |       |                |                |                |                |                            |

$$f = f_1 + s/2$$

If no D<sub>2</sub> or D<sub>max</sub> is specified, the tool has no diameter limit.

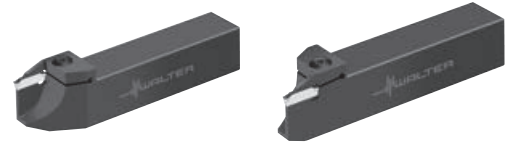
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 0,75–1                 |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | Torx key                                                |                         | FS1464 (T20IP)         |

## Shank tool – Radial grooving

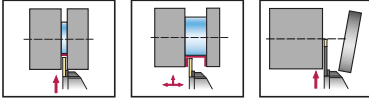
G4011 inch

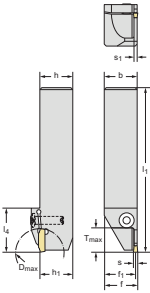
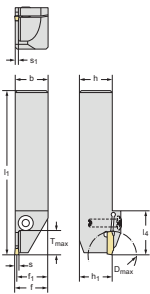
Walter Cut



A2

– Screw clamping



| Tool                                                                                |                    | s     | T <sub>max</sub> | D <sub>max</sub> | h =<br>h <sub>1</sub> | b     | f <sub>1</sub> | l <sub>1</sub> | l <sub>4</sub> | s <sub>1</sub> | Type                       |
|-------------------------------------------------------------------------------------|--------------------|-------|------------------|------------------|-----------------------|-------|----------------|----------------|----------------|----------------|----------------------------|
|                                                                                     | Designation        | inch  | inch             | inch             | inch                  | inch  | inch           | inch           | inch           | inch           |                            |
|    | Square shank       |       |                  |                  |                       |       |                |                |                |                | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                     | G4011.16R-3T17DX18 | 0,118 | 0,669            | 1,378            | 1,000                 | 1,000 | 0,953          | 4,921          | 1,319          | 0,094          |                            |
|  | Square shank       |       |                  |                  |                       |       |                |                |                |                | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                     | G4011.16L-3T17DX18 | 0,118 | 0,669            | 1,378            | 1,000                 | 1,000 | 0,953          | 4,921          | 1,319          | 0,094          |                            |

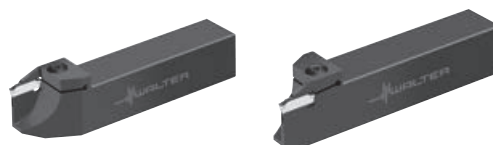
$$f = f_1 + s/2$$

Bodies and assembly parts are included in the scope of delivery.

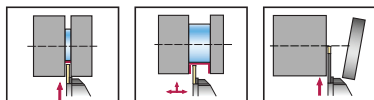
| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 1                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | Torx key                                                |                         | FS1464 (T20IP)         |

G4011...-P inch

## Walter Cut



- Screw clamping
- Precision cooling



The maximum recommended coolant pressure is 150 bar (2175 psi)  
Bodies and assembly parts are included in the scope of delivery.

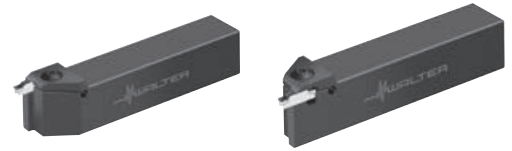
| Assembly parts                                                                      |                                                         |                        |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|
|                                                                                     | $h = h_1$ [mm]                                          | 1                      |
|  | Clamping screw for grooving insert<br>Tightening torque | FS2118 (T20IP)<br>5 Nm |
|  | G 1/8" threaded plug                                    | FS2258 (SW 2)          |
|  | M6 threaded plug                                        | FS2288 (SW 3)          |
|  | Torx key                                                | FS1464 (T20IP)         |



## Shank tool – Universal

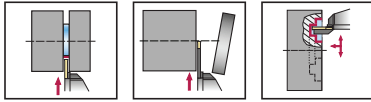
G4511 

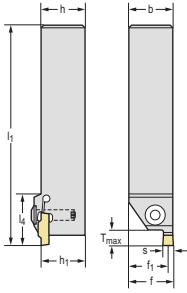
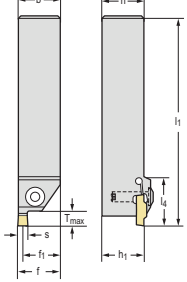
Walter Cut



A2

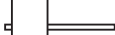
- Screw clamping
- Various insert widths fit in one tool



| Tool                                                                                                | Designation          | s<br>mm | T <sub>max</sub><br>mm | h = h <sub>1</sub><br>mm | b<br>mm | f <sub>1</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | Type                         |
|-----------------------------------------------------------------------------------------------------|----------------------|---------|------------------------|--------------------------|---------|----------------------|----------------------|----------------------|------------------------------|
| Square shank<br>   | ★ G4511-1212R-T5DX18 | 2–6     | 5                      | 12                       | 12      | 9,4                  | 120                  | 31,5                 | DX18- . E ..<br>DX18- . F .. |
|                                                                                                     | ★ G4511-1616R-T5DX18 |         | 5                      | 16                       | 16      | 13,4                 | 120                  | 29                   |                              |
|                                                                                                     | ★ G4511-2020R-T5DX18 |         | 5                      | 20                       | 20      | 17,4                 | 120                  | 29                   |                              |
|                                                                                                     | ★ G4511-2525R-T5DX18 |         | 5                      | 25                       | 25      | 22,4                 | 125                  | 29                   |                              |
| Square shank<br> | ★ G4511-2020L-T5DX18 | 2–6     | 5                      | 20                       | 20      | 17,4                 | 120                  | 29                   | DX18- . E ..<br>DX18- . F .. |
|                                                                                                     | ★ G4511-2525L-T5DX18 |         | 5                      | 25                       | 25      | 22,4                 | 125                  | 29                   |                              |

$$f = f_1 + s/2$$

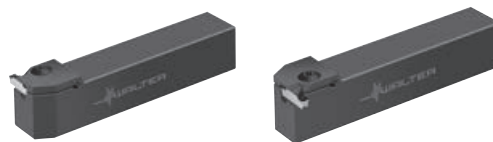
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 12–25                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | Torx key                                                |                         | FS1464 (T20IP)         |

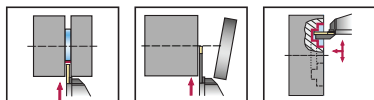
# Shank tool – 90° universal

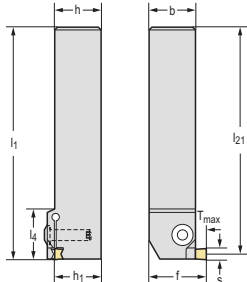
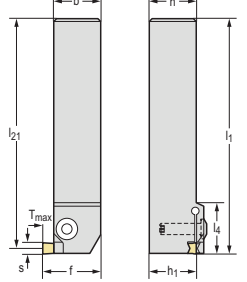
G4521

Walter Cut



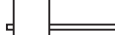
- Screw clamping
- Various insert widths fit in one tool



| Tool                                                                                                | Designation          | s<br>mm | T <sub>max</sub><br>mm | h = h <sub>1</sub><br>mm | b<br>mm | f<br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | Type         |
|-----------------------------------------------------------------------------------------------------|----------------------|---------|------------------------|--------------------------|---------|---------|----------------------|----------------------|--------------|
| Square shank<br>   | ★ G4521-2020R-T5DX18 | 2–6     | 5                      | 20                       | 20      | 25,5    | 120,35               | 27                   | DX18- . E .. |
|                                                                                                     | ★ G4521-2525R-T5DX18 |         | 5                      | 25                       | 25      | 30,5    | 125,35               | 27                   | DX18- . F .. |
| Square shank<br> | ★ G4521-2020L-T5DX18 | 2–6     | 5                      | 20                       | 20      | 25,5    | 120,35               | 27                   | DX18- . E .. |
|                                                                                                     | ★ G4521-2525L-T5DX18 |         | 5                      | 25                       | 25      | 30,5    | 125,35               | 27                   | DX18- . F .. |

$$l_1 = l_{21} + s/2$$

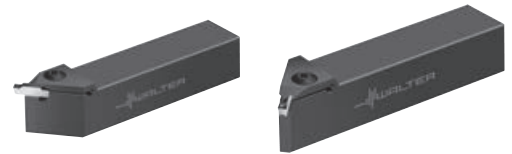
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 20–25                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | Torx key                                                |                         | FS1464 (T20IP)         |

## Shank tool – 45° universal

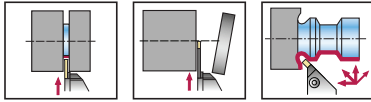
G4551 mm

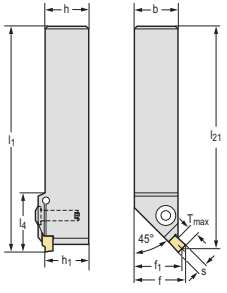
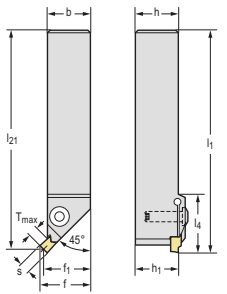
Walter Cut



A2

- Screw clamping
- Various insert widths fit in one tool



| Tool                                                                                                | Designation          | s<br>mm | T <sub>max</sub><br>mm | h = h <sub>1</sub><br>mm | b<br>mm | f <sub>1</sub><br>mm | l <sub>21</sub><br>mm | l <sub>4</sub><br>mm | Type                         |
|-----------------------------------------------------------------------------------------------------|----------------------|---------|------------------------|--------------------------|---------|----------------------|-----------------------|----------------------|------------------------------|
| Square shank<br>   | ★ G4551-2020R-T5DX18 | 2–6     | 5                      | 20                       | 20      | 22,3                 | 129,62                | 32                   | DX18- . E ..                 |
|                                                                                                     | ★ G4551-2525R-T5DX18 |         | 5                      | 25                       | 25      | 27,3                 | 129,62                | 32                   | DX18- . F ..                 |
| Square shank<br> | ★ G4551-2525L-T5DX18 | 2–6     | 5                      | 25                       | 25      | 27,3                 | 129,62                | 32                   | DX18- . E ..<br>DX18- . F .. |

$$f = f_1 + 0,707 \times s/2$$

$$l_1 = l_{21} + 0,707 \times s/2$$

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | h = h <sub>1</sub> [mm] | 20–25                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                         | FS2118 (T20IP)<br>5 Nm |
|  | Torx key                                                |                         | FS1464 (T20IP)         |

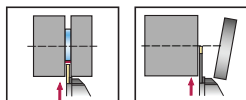
# Deep parting blade

G4042...N 

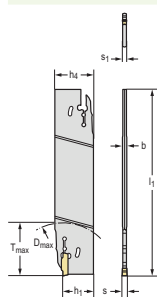
Walter Cut



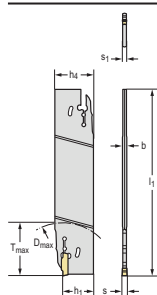
– Self-clamping system



## Tool



| Designation            | s<br>mm | T <sub>max</sub><br>mm | h <sub>4</sub><br>mm | b<br>mm | l <sub>1</sub><br>mm | h <sub>1</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------|---------|------------------------|----------------------|---------|----------------------|----------------------|----------------------|----------------------------|
| ★ G4042-26N-1.5T17DX18 | 1,5     | 17                     | 26                   | 3,5     | 130                  | 17,4                 | 1,2                  | DX18-1E1.5 ..              |
| ★ G4042-26N-2T25DX18   | 2       | 25                     | 26                   | 3,5     | 130                  | 17,4                 | 1,6                  | DX18-2E2 ..                |
| ★ G4042-26N-3T40DX18   | 3       | 40                     | 26                   | 3,5     | 130                  | 17,3                 | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
| ★ G4042-26N-4T40DX18   | 4       | 40                     | 26                   | 3,5     | 130                  | 17,2                 | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |



|                        |     |    |    |     |     |      |     |                            |
|------------------------|-----|----|----|-----|-----|------|-----|----------------------------|
| ★ G4042-32N-1.5T17DX18 | 1,5 | 17 | 32 | 3,5 | 150 | 21,1 | 1,2 | DX18-1E1.5 ..              |
| ★ G4042-32N-2T25DX18   | 2   | 25 | 32 | 3,5 | 150 | 21,1 | 1,6 | DX18-2E2 ..                |
| ★ G4042-32N-3T40DX18   | 3   | 40 | 32 | 3,5 | 150 | 21   | 2,4 | DX18-3E3 ..<br>DX18-3F3 .. |
| ★ G4042-32N-4T40DX18   | 4   | 40 | 32 | 3,5 | 150 | 20,9 | 3,4 | DX18-4E4 ..<br>DX18-4F4 .. |

## Accessories

h<sub>4</sub> [mm]

26–32



Mounting wrench for grooving insert

FS1494

## Deep parting blade

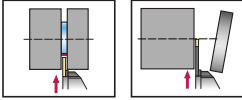
G4042...N...-P 

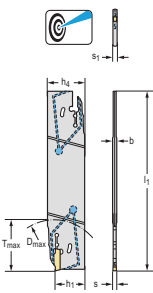
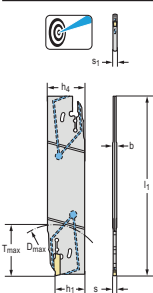
## Walter Cut



A2

- Self-clamping system
- Precision cooling



| Tool                                                                               | Designation            | s<br>mm | T <sub>max</sub><br>mm | h <sub>4</sub><br>mm | b<br>mm | l <sub>1</sub><br>mm | h <sub>1</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------------------------------------------------------------------|------------------------|---------|------------------------|----------------------|---------|----------------------|----------------------|----------------------|----------------------------|
|   | ★ G4042-26N-3T40DX18-P | 3       | 40                     | 26                   | 3,5     | 130                  | 17,3                 | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|  | ★ G4042-32N-3T40DX18-P | 3       | 40                     | 32                   | 3,5     | 150                  | 21                   | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |

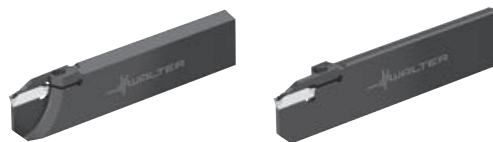
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                     | h <sub>4</sub> [mm] | 26–32  |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------------|--------|
|  | Coolant transfer insert             |                     | FS2282 |
| Accessories                                                                         |                                     | h <sub>4</sub> [mm] | 26–32  |
|  | Mounting wrench for grooving insert |                     | FS1494 |

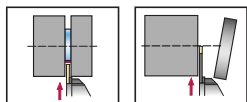
# Reinforced parting blade

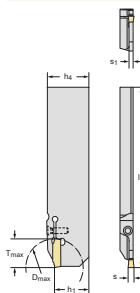
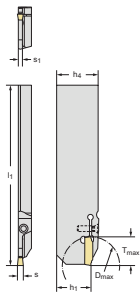
G4041 

Walter Cut



– Screw clamping



| Tool                                                                               | Designation          | s<br>mm | T <sub>max</sub><br>mm | D <sub>max</sub><br>mm | h <sub>4</sub><br>mm | l <sub>1</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------------------------------------------------------------------|----------------------|---------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------------|
|   | G4041-26R-1.5T17DX18 | 1,5     | 17                     | 35                     | 26                   | 110                  | 1,2                  | DX18-1E1.5 ..              |
|                                                                                    | G4041-26R-2T17DX18   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|                                                                                    | G4041-26R-3T17DX18   | 3       | 17                     | 35                     | 26                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                    | G4041-32R-2T21DX18   | 2       | 21                     | 42                     | 32                   | 110                  | 2,5                  | DX18-2E2 ..                |
|  | G4041-26L-1.5T17DX18 | 1,5     | 17                     | 35                     | 26                   | 110                  | 1,2                  | DX18-1E1.5 ..              |
|                                                                                    | G4041-26L-2T17DX18   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|                                                                                    | G4041-26L-3T17DX18   | 3       | 17                     | 35                     | 26                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |

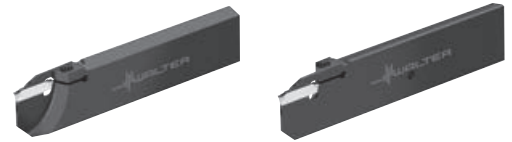
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                    | h <sub>4</sub> [mm] | 26–32          |
|-------------------------------------------------------------------------------------|------------------------------------|---------------------|----------------|
|  | Clamping screw for grooving insert |                     | FS2164 (T15IP) |
|                                                                                     | Tightening torque                  |                     | 3,5 Nm         |
| Accessories                                                                         |                                    | h <sub>4</sub> [mm] | 26–32          |
|  | Screwdriver for grooving insert    |                     | FS1485 (T15IP) |

## Reinforced parting blade

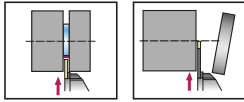
G4041...-P 

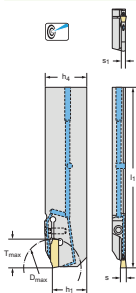
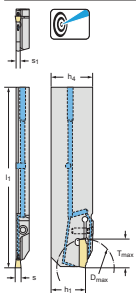
Walter Cut



A2

- Screw clamping
- Precision cooling



| Tool                                                                               | Designation            | s<br>mm | T <sub>max</sub><br>mm | D <sub>max</sub><br>mm | h <sub>4</sub><br>mm | l <sub>1</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------------------------------------------------------------------|------------------------|---------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------------|
|   | G4041-26R-2T17DX18-P   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|                                                                                    | ★ G4041-26R-3T17DX18-P | 3       | 17                     | 35                     | 26                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|  | G4041-26L-2T17DX18-P   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|                                                                                    | ★ G4041-26L-3T17DX18-P | 3       | 17                     | 35                     | 26                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                    | G4041-32L-2T21DX18-P   | 2       | 21                     | 42                     | 32                   | 110                  | 1,6                  | DX18-2E2 ..                |

The maximum recommended coolant pressure is 80 bar (1160 psi)  
Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                     | h <sub>4</sub> [mm]                                     | 26–32                    |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque | FS2164 (T15IP)<br>3,5 Nm |

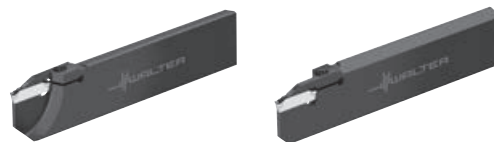
## Accessories

|                                                                                     | h <sub>4</sub> [mm]             | 26–32          |
|-------------------------------------------------------------------------------------|---------------------------------|----------------|
|  | Screwdriver for grooving insert | FS1485 (T15IP) |

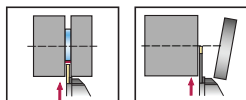
# Reinforced parting blade – Contra

G4041...C 

Walter Cut



– Screw clamping



| Tool | Designation           | s<br>mm | T <sub>max</sub><br>mm | D <sub>max</sub><br>mm | h <sub>4</sub><br>mm | l <sub>1</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------|-----------------------|---------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------------|
|      | G4041-26R-1.5T17DX18C | 1,5     | 17                     | 35                     | 26                   | 110                  | 1,2                  | DX18-1E1.5 ..              |
|      | G4041-26R-2T17DX18C   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|      | G4041-26R-3T17DX18C   | 3       | 17                     | 35                     | 26                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|      | G4041-32R-2T21DX18C   | 2       | 21                     | 42                     | 32                   | 110                  | 1,6                  | DX18-2E2 ..                |
|      | G4041-26L-1.5T17DX18C | 1,5     | 17                     | 35                     | 26                   | 110                  | 1,2                  | DX18-1E1.5 ..              |
|      | G4041-26L-2T17DX18C   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|      | G4041-26L-3T17DX18C   | 3       | 17                     | 35                     | 26                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|      | G4041-32L-2T21DX18C   | 2       | 21                     | 42                     | 32                   | 110                  | 1,6                  | DX18-2E2 ..                |

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts |                                    | h <sub>4</sub> [mm] | 26–32          |
|----------------|------------------------------------|---------------------|----------------|
|                | Clamping screw for grooving insert |                     | FS2164 (T15IP) |
|                | Tightening torque                  |                     | 3,5 Nm         |

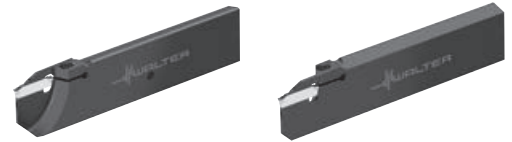
| Accessories |                                 | h <sub>4</sub> [mm] | 26–32          |
|-------------|---------------------------------|---------------------|----------------|
|             | Screwdriver for grooving insert |                     | FS1485 (T15IP) |



# Reinforced parting blade – Contra

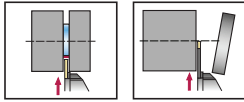
## G4041...C-P mm

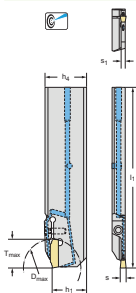
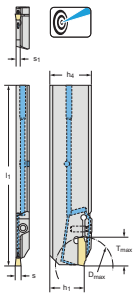
### Walter Cut



A2

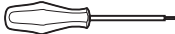
- Screw clamping
- Precision cooling



| Tool                                                                               | Designation             | s<br>mm | T <sub>max</sub><br>mm | D <sub>max</sub><br>mm | h <sub>4</sub><br>mm | l <sub>1</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------------------------------------------------------------------|-------------------------|---------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------------|
|   | G4041-26R-2T17DX18C-P   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|                                                                                    | ★ G4041-32R-2T21DX18C-P |         | 21                     | 42                     | 32                   | 110                  | 1,6                  |                            |
|                                                                                    | ★ G4041-32R-3T21DX18C-P | 3       | 21                     | 42                     | 32                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|  | G4041-26L-2T17DX18C-P   | 2       | 17                     | 35                     | 26                   | 110                  | 1,6                  | DX18-2E2 ..                |
|                                                                                    | ★ G4041-32L-2T21DX18C-P |         | 21                     | 42                     | 32                   | 110                  | 1,6                  |                            |
|                                                                                    | ★ G4041-32L-3T21DX18C-P | 3       | 21                     | 42                     | 32                   | 110                  | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |

The maximum recommended coolant pressure is 80 bar (1160 psi)  
Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | h <sub>4</sub> [mm] | 26–32                    |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|--------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                     | FS2164 (T15IP)<br>3,5 Nm |

| Accessories                                                                         |                                 | h <sub>4</sub> [mm] | 26–32          |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------|----------------|
|  | Screwdriver for grooving insert |                     | FS1485 (T15IP) |

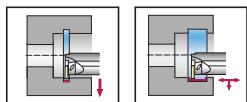
# Boring bar – Internal grooving

G4221...-P mm

Walter Cut



- Screw clamping
- Precision cooling



| Tool                  | Designation              | s<br>mm | T <sub>max</sub><br>mm | D <sub>min</sub><br>mm | d <sub>1</sub><br>mm | f<br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>21</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|-----------------------|--------------------------|---------|------------------------|------------------------|----------------------|---------|----------------------|----------------------|-----------------------|----------------------|----------------------------|
| Cylindrical shank<br> | ★ G4221-25RR-2T08-DX18-P | 2       | 8                      | 25                     | 25                   | 21,1    | 200,2                | 46,2                 | 199,2                 | 1,6                  | DX18-2E2 ..                |
|                       | ★ G4221-25RR-3T08-DX18-P | 3       | 8                      | 25                     | 25                   | 21,1    | 200,25               | 46,3                 | 198,8                 | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                       | ★ G4221-32SR-3T10-DX18-P |         | 10                     | 32                     | 32                   | 26,6    | 250,25               | 59,3                 | 248,8                 | 2,5                  |                            |
|                       | ★ G4221-32SR-4T10-DX18-P | 4       | 10                     | 32                     | 32                   | 26,6    | 250,3                | 59,3                 | 248,3                 | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |
| Cylindrical shank<br> | ★ G4221-25RL-2T08-DX18-P | 2       | 8                      | 25                     | 25                   | 21,1    | 200,2                | 46,2                 | 199,2                 | 1,6                  | DX18-2E2 ..                |
|                       | ★ G4221-25RL-3T08-DX18-P | 3       | 8                      | 25                     | 25                   | 21,1    | 200,25               | 46,3                 | 198,8                 | 2,5                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                       | ★ G4221-32SL-3T10-DX18-P |         | 10                     | 32                     | 32                   | 26,6    | 250,25               | 59,3                 | 248,8                 | 2,5                  |                            |
|                       | ★ G4221-32SL-4T10-DX18-P | 4       | 10                     | 32                     | 32                   | 26,6    | 250,3                | 59,3                 | 248,3                 | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |

$$l_1 = l_{21} + s/2$$

The maximum recommended coolant pressure is 80 bar (1160 psi)

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts |                                                         |                           |                           |
|----------------|---------------------------------------------------------|---------------------------|---------------------------|
|                | D <sub>min</sub> [mm]                                   | 25                        | 32                        |
|                | Clamping screw for grooving insert<br>Tightening torque | FS1495 (T20IP)<br>5 Nm    | FS2089 (T25IP)<br>6 Nm    |
|                | Threaded plug                                           | M03X003 ISO 4026 (SW 1,5) | M03X003 ISO 4026 (SW 1,5) |
|                | O-ring                                                  | O-RING 20X2               | O-RING 27X2               |
|                | Screwdriver                                             | FS1486 (T20IP)            | FS1487 (T25IP)            |

| Accessories |                              |                |                |
|-------------|------------------------------|----------------|----------------|
|             | D <sub>min</sub> [mm]        | 25             | 32             |
|             | Torque screwdriver, analogue | FS2003         | FS2003         |
|             | Interchangeable blade        | FS2015 (T20IP) | FS2016 (T25IP) |

## Boring bar – Internal grooving

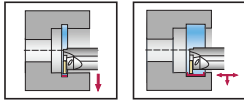
G4221...-P inch

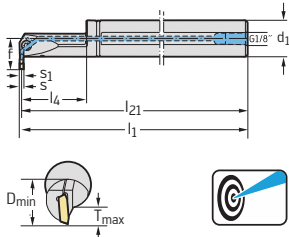
**Walter Cut**



A2

- Screw clamping
- Precision cooling



| Tool                                                                                                   | Designation              | s<br>inch | T <sub>max</sub><br>inch | D <sub>min</sub><br>inch | d <sub>1</sub><br>inch | f<br>inch | l <sub>1</sub><br>inch | l <sub>4</sub><br>inch | l <sub>21</sub><br>inch | s <sub>1</sub><br>inch | Type                       |
|--------------------------------------------------------------------------------------------------------|--------------------------|-----------|--------------------------|--------------------------|------------------------|-----------|------------------------|------------------------|-------------------------|------------------------|----------------------------|
| Cylindrical shank<br> | ★ G4221.16RR-2T08-DX18-P | 0,079     | 0,315                    | 1,000                    | 1,000                  | 0,839     | 7,882                  | 1,821                  | 7,843                   | 0,063                  | DX18-2E2 ..                |
|                                                                                                        | ★ G4221.16RR-3T08-DX18-P | 0,118     | 0,315                    | 1,000                    | 1,000                  | 0,839     | 7,884                  | 1,821                  | 7,825                   | 0,098                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                        | ★ G4221.20SR-3T10-DX18-P |           | 0,394                    | 1,250                    | 1,250                  | 1,043     | 9,852                  | 2,333                  | 9,793                   | 0,098                  |                            |
|                                                                                                        | ★ G4221.20SR-4T10-DX18-P | 0,157     | 0,394                    | 1,250                    | 1,250                  | 1,043     | 9,854                  | 2,335                  | 9,776                   | 0,134                  | DX18-4E4 ..<br>DX18-4F4 .. |

$$l_1 = l_{21} + s/2$$

The maximum recommended coolant pressure is 80 bar (1160 psi)

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         | D <sub>min</sub> [mm] | 1                         | 1,25                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------|---------------------------|---------------------------|
|  | Clamping screw for grooving insert<br>Tightening torque |                       | FS1495 (T20IP)<br>5 Nm    | FS2089 (T25IP)<br>6 Nm    |
|  | Threaded plug                                           |                       | M03X003 ISO 4026 (SW 1,5) | M03X003 ISO 4026 (SW 1,5) |
|  | O-ring                                                  |                       | O-RING 20X2               | O-RING 27X2               |
|  | Screwdriver                                             |                       | FS1486 (T20IP)            | FS1487 (T25IP)            |

| Accessories                                                                         |                              | D <sub>min</sub> [mm] | 1              | 1,25           |
|-------------------------------------------------------------------------------------|------------------------------|-----------------------|----------------|----------------|
|  | Torque screwdriver, analogue |                       | FS2004         | FS2004         |
|  | Interchangeable blade        |                       | FS2015 (T20IP) | FS2016 (T25IP) |

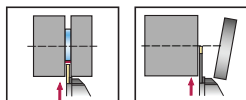
# Grooving module – Radial grooving

G4635 mm

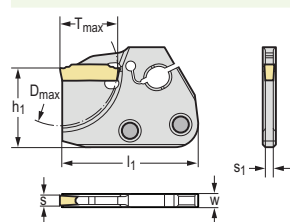
**Walter Cut**



- Screw clamping
- Replacement module



## Tool



### Designation

★ G4635-30N-1.5T10DX18

★ G4635-30N-2T17DX18

★ G4635-30N-3T17DX18

s  
mm

T<sub>max</sub>  
mm

D<sub>max</sub>  
mm

h<sub>1</sub>  
mm

W  
mm

l<sub>1</sub>  
mm

s<sub>1</sub>  
mm

Type

DX18-1E1.5 ..

DX18-2E2 ..

DX18-3E3 ..  
DX18-3F3 ..

## Groove turning holders – Radial grooving

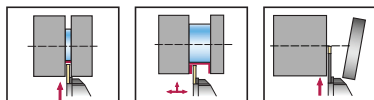
G4011-C...-P mm

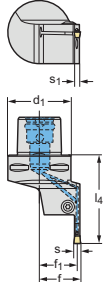
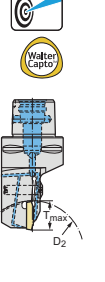
Walter Cut



A2

- Walter Capto™
- Screw clamping



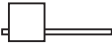
| Tool                                                                                                                                                                                                               | Designation          | s<br>mm | T <sub>max</sub><br>mm | D <sub>2</sub><br>mm | d <sub>1</sub> | f <sub>1</sub><br>mm | l <sub>4</sub><br>mm | s <sub>1</sub><br>mm | Type        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|------------------------|----------------------|----------------|----------------------|----------------------|----------------------|-------------|
| Walter Capto™ in acc. with ISO 26623<br><br>     | G4011-C3R-2T17DX18-P | 2       | 17                     | 52                   | C3             | 20                   | 55                   | 1,6                  | DX18-2E2 .. |
|                                                                                                                                                                                                                    | G4011-C4R-2T17DX18-P |         | 17                     | 52                   | C4             | 20                   | 60                   | 1,6                  |             |
| Walter Capto™ in acc. with ISO 26623<br><br> | G4011-C3L-2T17DX18-P | 2       | 17                     | 52                   | C3             | 20                   | 55                   | 1,6                  | DX18-2E2 .. |
|                                                                                                                                                                                                                    | G4011-C4L-2T17DX18-P |         | 17                     | 52                   | C4             | 20                   | 60                   | 1,6                  |             |

$$f = f_1 + s/2$$

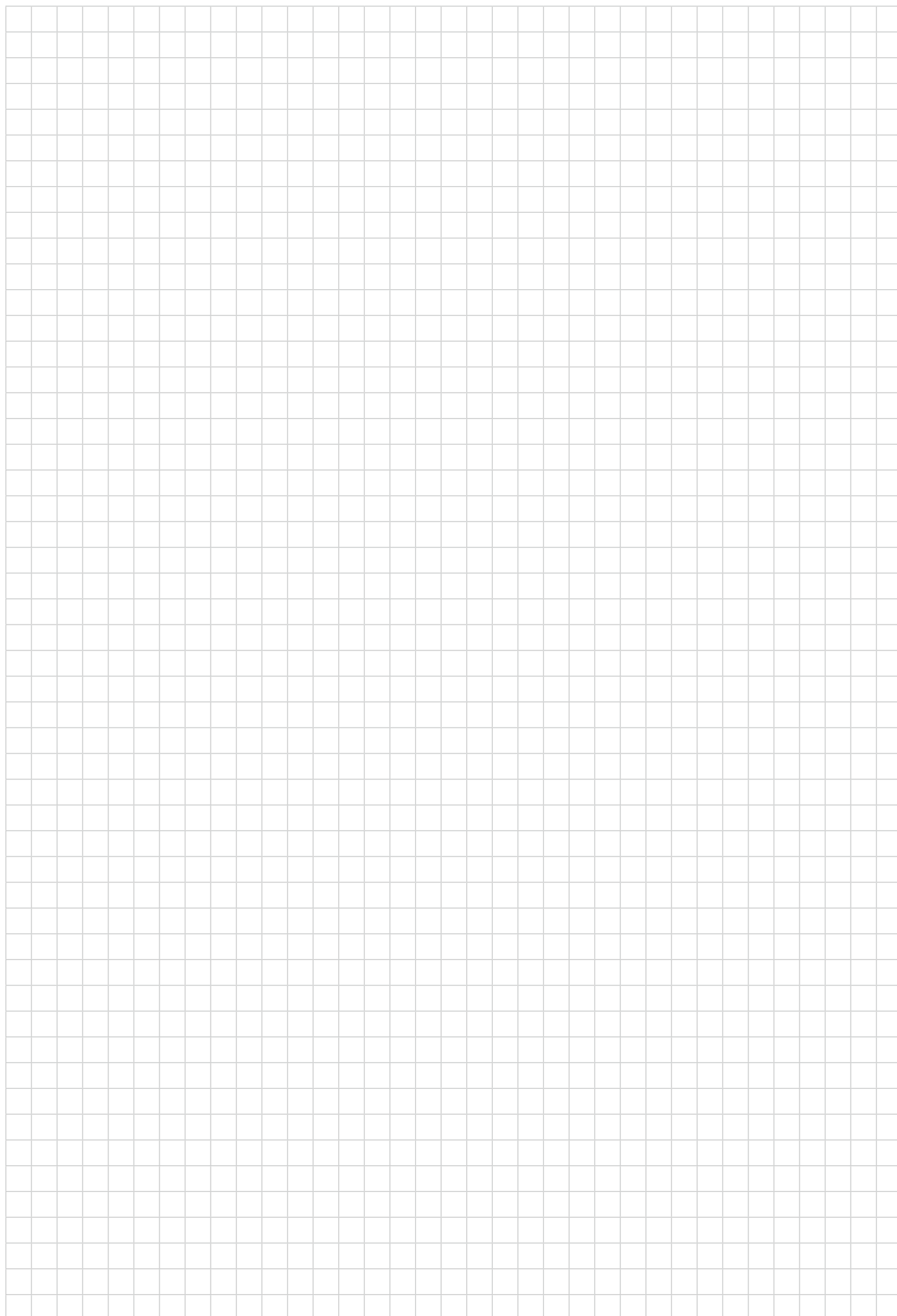
If no D<sub>2</sub> or D<sub>max</sub> is specified, the tool has no diameter limit.

The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                                                                                                             |                                                         |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|
| <br> | d <sub>1</sub>                                          | C3–C4                  |
|                                                                                                                                                                            | Clamping screw for grooving insert<br>Tightening torque | FS2118 (T20IP)<br>5 Nm |
|                                                                                                                                                                            | Torx key                                                | FS1464 (T20IP)         |

A2



## Exchangeable head – Internal grooving

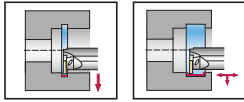
G4221-Q...-P

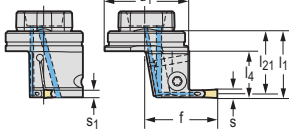
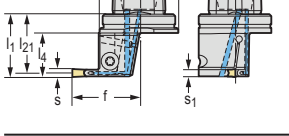
**Walter Cut**



A2

- QuadFit
- For Accuretec boring bars



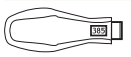
| Tool                                                                                                                                                                                                                                                                         | Designation             | s<br>mm | T <sub>max</sub><br>mm | D <sub>min</sub><br>mm | d <sub>1</sub><br>mm | f<br>mm | l <sub>4</sub><br>mm | l <sub>21</sub><br>mm | s <sub>1</sub><br>mm | Type                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------|------------------------|----------------------|---------|----------------------|-----------------------|----------------------|----------------------------|
| QuadFit<br><br><br>       | ★ G4221-Q32R-3T12DX18-P | 3       | 12                     | 50                     | 32                   | 29,7    | 22,4                 | 30,5                  | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q40R-3T12DX18-P |         | 12                     | 55                     | 40                   | 33,7    | 22,4                 | 30,5                  | 2,4                  |                            |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q50R-3T12DX18-P |         | 12                     | 80                     | 50                   | 38,7    | 22,3                 | 30,5                  | 2,4                  |                            |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q32R-4T12DX18-P | 4       | 12                     | 50                     | 32                   | 29,7    | 22,4                 | 30                    | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q40R-4T12DX18-P |         | 12                     | 55                     | 40                   | 33,7    | 22,4                 | 30                    | 3,4                  |                            |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q50R-4T12DX18-P |         | 21                     | 80                     | 50                   | 47,7    | 22,3                 | 30                    | 3,4                  |                            |
| QuadFit<br><br><br> | ★ G4221-Q32L-3T12DX18-P | 3       | 12                     | 50                     | 32                   | 29,7    | 22,4                 | 30,5                  | 2,4                  | DX18-3E3 ..<br>DX18-3F3 .. |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q40L-3T12DX18-P |         | 12                     | 55                     | 40                   | 33,7    | 22,4                 | 30,5                  | 2,4                  |                            |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q50L-3T12DX18-P |         | 12                     | 80                     | 50                   | 38,7    | 22,3                 | 30,5                  | 2,4                  |                            |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q32L-4T12DX18-P | 4       | 12                     | 50                     | 32                   | 29,7    | 22,4                 | 30                    | 3,4                  | DX18-4E4 ..<br>DX18-4F4 .. |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q40L-4T12DX18-P |         | 12                     | 55                     | 40                   | 33,7    | 22,4                 | 30                    | 3,4                  |                            |
|                                                                                                                                                                                                                                                                              | ★ G4221-Q50L-4T12DX18-P |         | 21                     | 80                     | 50                   | 47,7    | 22,3                 | 30                    | 3,4                  |                            |

$$l_1 = l_{21} + s/2$$

The maximum recommended coolant pressure is 150 bar (2175 psi)

Bodies and assembly parts are included in the scope of delivery.

| Assembly parts                                                                      |                                                         |                        |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|
|                                                                                     | D <sub>min</sub> [mm]                                   | 50–80                  |
|  | Clamping screw for grooving insert<br>Tightening torque | FS2614 (T20IP)<br>5 Nm |
|  | Threaded plug                                           | M03X006 ISO 4026       |
|  | Torx key                                                | FS1464 (T20IP)         |

| Accessories                                                                         |                             |                |
|-------------------------------------------------------------------------------------|-----------------------------|----------------|
|                                                                                     | D <sub>min</sub> [mm]       | 50–80          |
|  | Torque screwdriver, digital | FS2248         |
|  | Interchangeable blade       | FS2015 (T20IP) |





### Drilling from solid – B1

|                                           |                                           |    |
|-------------------------------------------|-------------------------------------------|----|
| Solid carbide drilling and reaming tools  | Solid carbide drilling and reaming tools  | 66 |
| Indexable inserts for drilling from solid | Indexable inserts for drilling from solid | 76 |
| Boring tools with indexable inserts       | Indexable insert drills                   | 82 |

### Boring and precision boring – B2

|                                                   |                                        |     |
|---------------------------------------------------|----------------------------------------|-----|
| Indexable inserts for boring and precision boring | Indexable inserts for precision boring | 136 |
|---------------------------------------------------|----------------------------------------|-----|

B 1

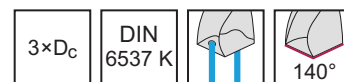
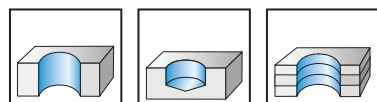
B 2

# Solid carbide twist drills

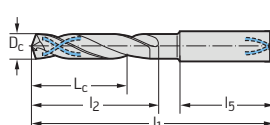
## DC175 Supreme

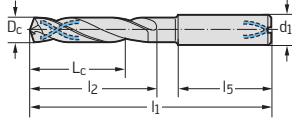


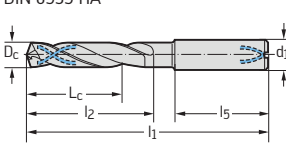
– Walter precision cooling

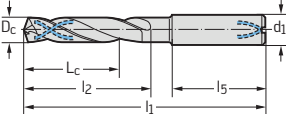


|        | P | M  | K | N | S  | H | O |
|--------|---|----|---|---|----|---|---|
| WJ30RZ | ● | ●● | ● | ● | ●● | ● | ● |

| Tool                                                                                             | Designation          | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DIN 6535 HA<br> | ★ DC175-03-03.000A1- | 3                    | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.100A1- | 3,1                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.175A1- | 3,175                | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.200A1- | 3,2                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.250A1- | 3,25                 | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.300A1- | 3,3                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.400A1- | 3,4                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.500A1- | 3,5                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.572A1- | 3,572                | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.600A1- | 3,6                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-03.700A1- | 3,7                  | 14                   | 62                   | 20                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-04.300A1- | 4,3                  | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-04.600A1- | 4,6                  | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-04.700A1- | 4,7                  | 17                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-04.763A1- | 4,763                | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-04.800A1- | 4,8                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-04.900A1- | 4,9                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.000A1- | 5                    | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.100A1- | 5,1                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.159A1- | 5,159                | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.200A1- | 5,2                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.300A1- | 5,3                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.400A1- | 5,4                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.500A1- | 5,5                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.550A1- | 5,55                 | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.556A1- | 5,556                | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.600A1- | 5,6                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.700A1- | 5,7                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.800A1- | 5,8                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.900A1- | 5,9                  | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-05.953A1- | 5,953                | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-06.000A1- | 6                    | 20                   | 66                   | 28                   | 36                   | 6                          | ●      |
|                                                                                                  | ★ DC175-03-06.100A1- | 6,1                  | 24                   | 79                   | 34                   | 36                   | 8                          | ●      |
|                                                                                                  | ★ DC175-03-06.200A1- | 6,2                  | 24                   | 79                   | 34                   | 36                   | 8                          | ●      |
|                                                                                                  | ★ DC175-03-06.300A1- | 6,3                  | 24                   | 79                   | 34                   | 36                   | 8                          | ●      |
|                                                                                                  | ★ DC175-03-06.350A1- | 6,35                 | 24                   | 79                   | 34                   | 36                   | 8                          | ●      |

| Tool                                                                                             | Designation          | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ                                                                                |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---------------------------------------------------------------------------------------|
| DIN 6535 HA<br> | ★ DC175-03-06.400A1- | 6,4                  | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-06.500A1- | 6,5                  | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-06.600A1- | 6,6                  | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-06.700A1- | 6,7                  | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-06.747A1- | 6,747                | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-06.800A1- | 6,8                  | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-06.900A1- | 6,9                  | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.000A1- | 7                    | 24                   | 79                   | 34                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.100A1- | 7,1                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.144A1- | 7,144                | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.200A1- | 7,2                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.300A1- | 7,3                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.400A1- | 7,4                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.500A1- | 7,5                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.541A1- | 7,541                | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.600A1- | 7,6                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.700A1- | 7,7                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.800A1- | 7,8                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.900A1- | 7,9                  | 29                   | 79                   | 41                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-03-07.938A1- | 7,938                | 29                   | 79                   | 41                   | 36                   | 8                          |  |
|                                                                                                  | ★ DC175-03-08.000A1- | 8                    | 29                   | 79                   | 41                   | 36                   | 8                          |  |
|                                                                                                  | ★ DC175-03-08.100A1- | 8,1                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.200A1- | 8,2                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.300A1- | 8,3                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.334A1- | 8,334                | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.400A1- | 8,4                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.500A1- | 8,5                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.600A1- | 8,6                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.700A1- | 8,7                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.731A1- | 8,731                | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.800A1- | 8,8                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-08.900A1- | 8,9                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.000A1- | 9                    | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.100A1- | 9,1                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.128A1- | 9,128                | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.200A1- | 9,2                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.300A1- | 9,3                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.400A1- | 9,4                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.500A1- | 9,5                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.525A1- | 9,525                | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.600A1- | 9,6                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.700A1- | 9,7                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.800A1- | 9,8                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.900A1- | 9,9                  | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-09.922A1- | 9,922                | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-10.000A1- | 10                   | 35                   | 89                   | 47                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-03-10.100A1- | 10,1                 | 40                   | 102                  | 55                   | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-03-10.200A1- | 10,2                 | 40                   | 102                  | 55                   | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-03-10.300A1- | 10,3                 | 40                   | 102                  | 55                   | 45                   | 12                         |  |

| Tool                                                                                                     | Designation          | D <sub>c</sub><br>m7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ                                                                                |
|----------------------------------------------------------------------------------------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---------------------------------------------------------------------------------------|
| <div>DIN 6535 HA</div>  | ★ DC175-03-10.319A1- | 10,319                     | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.400A1- | 10,4                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.500A1- | 10,5                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.600A1- | 10,6                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.700A1- | 10,7                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.716A1- | 10,716                     | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.800A1- | 10,8                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-10.900A1- | 10,9                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.000A1- | 11                         | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.100A1- | 11,1                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.113A1- | 11,113                     | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.200A1- | 11,2                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.300A1- | 11,3                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.400A1- | 11,4                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.500A1- | 11,5                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.509A1- | 11,509                     | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.600A1- | 11,6                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.700A1- | 11,7                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.800A1- | 11,8                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-11.900A1- | 11,9                       | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-12.000A1- | 12                         | 40                   | 102                  | 55                   | 45                   | 12                         |    |
|                                                                                                          | ★ DC175-03-12.100A1- | 12,1                       | 43                   | 107                  | 60                   | 45                   | 14                         |    |
|                                                                                                          | ★ DC175-03-12.200A1- | 12,2                       | 43                   | 107                  | 60                   | 45                   | 14                         |   |
|                                                                                                          | ★ DC175-03-12.300A1- | 12,3                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-12.303A1- | 12,303                     | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-12.500A1- | 12,5                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-12.600A1- | 12,6                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-12.700A1- | 12,7                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-12.900A1- | 12,9                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-13.000A1- | 13                         | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-13.100A1- | 13,1                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-13.300A1- | 13,3                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-13.494A1- | 13,494                     | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-13.500A1- | 13,5                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-13.800A1- | 13,8                       | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-14.000A1- | 14                         | 43                   | 107                  | 60                   | 45                   | 14                         |  |
|                                                                                                          | ★ DC175-03-14.200A1- | 14,2                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-14.288A1- | 14,288                     | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-14.500A1- | 14,5                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-14.750A1- | 14,75                      | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-15.000A1- | 15                         | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-15.100A1- | 15,1                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-15.200A1- | 15,2                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-15.300A1- | 15,3                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-15.500A1- | 15,5                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-15.800A1- | 15,8                       | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-16.000A1- | 16                         | 45                   | 115                  | 65                   | 48                   | 16                         |  |
|                                                                                                          | ★ DC175-03-16.500A1- | 16,5                       | 51                   | 123                  | 73                   | 48                   | 18                         |  |
|                                                                                                          | ★ DC175-03-17.500A1- | 17,5                       | 51                   | 123                  | 73                   | 48                   | 18                         |  |

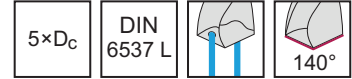
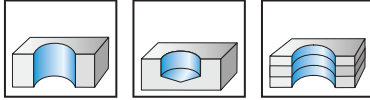
| Tool                                                                                             | Designation          | D <sub>c</sub><br>m7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ                                                                              |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|
| DIN 6535 HA<br> | ★ DC175-03-18.000A1- | 18                         | 51                   | 123                  | 73                   | 48                   | 18                         |  |
|                                                                                                  | ★ DC175-03-18.500A1- | 18,5                       | 55                   | 131                  | 79                   | 50                   | 20                         |  |
|                                                                                                  | ★ DC175-03-19.000A1- | 19                         | 55                   | 131                  | 79                   | 50                   | 20                         |  |
|                                                                                                  | ★ DC175-03-19.500A1- | 19,5                       | 55                   | 131                  | 79                   | 50                   | 20                         |  |
|                                                                                                  | ★ DC175-03-20.000A1- | 20                         | 55                   | 131                  | 79                   | 50                   | 20                         |  |

# Solid carbide twist drills

## DC175 Supreme



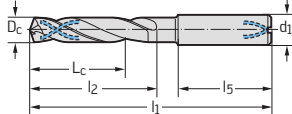
– Walter precision cooling



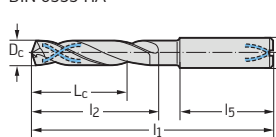
|        | P | M  | K | N | S  | H | O |
|--------|---|----|---|---|----|---|---|
| WJ30RZ | ● | ●● | ● | ● | ●● | ● | ● |

| Tool            | Designation          | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ |
|-----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DIN 6535 HA<br> | ★ DC175-05-03.000A1- | 3                    | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.175A1- | 3,175                | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.200A1- | 3,2                  | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.250A1- | 3,25                 | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.300A1- | 3,3                  | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.400A1- | 3,4                  | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.500A1- | 3,5                  | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.572A1- | 3,572                | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.600A1- | 3,6                  | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-03.700A1- | 3,7                  | 19                   | 66                   | 24                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-04.000A1- | 4                    | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-04.200A1- | 4,2                  | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-04.366A1- | 4,366                | 29                   | 74                   | 36                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-04.763A1- | 4,763                | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-04.800A1- | 4,8                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-04.900A1- | 4,9                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.000A1- | 5                    | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.100A1- | 5,1                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.159A1- | 5,159                | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.200A1- | 5,2                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.300A1- | 5,3                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.400A1- | 5,4                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.500A1- | 5,5                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.550A1- | 5,55                 | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.556A1- | 5,556                | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.600A1- | 5,6                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.700A1- | 5,7                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.800A1- | 5,8                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.900A1- | 5,9                  | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-05.953A1- | 5,953                | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-06.000A1- | 6                    | 35                   | 82                   | 44                   | 36                   | 6                          | ●      |
|                 | ★ DC175-05-06.100A1- | 6,1                  | 43                   | 91                   | 53                   | 36                   | 8                          | ●      |
|                 | ★ DC175-05-06.200A1- | 6,2                  | 43                   | 91                   | 53                   | 36                   | 8                          | ●      |
|                 | ★ DC175-05-06.300A1- | 6,3                  | 43                   | 91                   | 53                   | 36                   | 8                          | ●      |
|                 | ★ DC175-05-06.350A1- | 6,35                 | 43                   | 91                   | 53                   | 36                   | 8                          | ●      |
|                 | ★ DC175-05-06.400A1- | 6,4                  | 43                   | 91                   | 53                   | 36                   | 8                          | ●      |

For dia. 3–3.75: Overall length according to DIN 6537 L, grooves shortened compared to DIN 6537 L

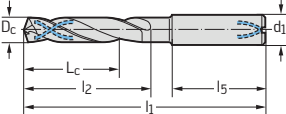
| Tool                                                                                             | Designation          | D <sub>c</sub><br>m7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ                                                                                |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---------------------------------------------------------------------------------------|
| DIN 6535 HA<br> | ★ DC175-05-06.500A1- | 6,5                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-06.600A1- | 6,6                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-06.700A1- | 6,7                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-06.747A1- | 6,747                      | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-06.800A1- | 6,8                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-06.900A1- | 6,9                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.000A1- | 7                          | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.100A1- | 7,1                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.144A1- | 7,144                      | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.200A1- | 7,2                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.300A1- | 7,3                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.400A1- | 7,4                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.500A1- | 7,5                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.541A1- | 7,541                      | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.600A1- | 7,6                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.700A1- | 7,7                        | 43                   | 91                   | 53                   | 36                   | 8                          |    |
|                                                                                                  | ★ DC175-05-07.800A1- | 7,8                        | 43                   | 91                   | 53                   | 36                   | 8                          |   |
|                                                                                                  | ★ DC175-05-07.900A1- | 7,9                        | 43                   | 91                   | 53                   | 36                   | 8                          |  |
|                                                                                                  | ★ DC175-05-07.938A1- | 7,938                      | 43                   | 91                   | 53                   | 36                   | 8                          |  |
|                                                                                                  | ★ DC175-05-08.000A1- | 8                          | 43                   | 91                   | 53                   | 36                   | 8                          |  |
|                                                                                                  | ★ DC175-05-08.100A1- | 8,1                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.200A1- | 8,2                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.300A1- | 8,3                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.334A1- | 8,334                      | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.400A1- | 8,4                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.500A1- | 8,5                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.600A1- | 8,6                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.700A1- | 8,7                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.731A1- | 8,731                      | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.800A1- | 8,8                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-08.900A1- | 8,9                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.000A1- | 9                          | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.100A1- | 9,1                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.128A1- | 9,128                      | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.200A1- | 9,2                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.300A1- | 9,3                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.400A1- | 9,4                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.500A1- | 9,5                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.525A1- | 9,525                      | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.600A1- | 9,6                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.700A1- | 9,7                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.800A1- | 9,8                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.900A1- | 9,9                        | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-09.922A1- | 9,922                      | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-10.000A1- | 10                         | 49                   | 103                  | 61                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-05-10.100A1- | 10,1                       | 56                   | 118                  | 71                   | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-05-10.200A1- | 10,2                       | 56                   | 118                  | 71                   | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-05-10.300A1- | 10,3                       | 56                   | 118                  | 71                   | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-05-10.319A1- | 10,319                     | 56                   | 118                  | 71                   | 45                   | 12                         |  |

For dia. 3–3.75: Overall length according to DIN 6537 L, grooves shortened compared to DIN 6537 L

| Tool                                                                                             | Designation          | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DIN 6535 HA<br> | ★ DC175-05-10.400A1- | 10,4                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-10.500A1- | 10,5                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-10.600A1- | 10,6                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-10.700A1- | 10,7                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-10.716A1- | 10,716               | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-10.800A1- | 10,8                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-10.900A1- | 10,9                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.000A1- | 11                   | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.100A1- | 11,1                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.113A1- | 11,113               | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.200A1- | 11,2                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.300A1- | 11,3                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.400A1- | 11,4                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.500A1- | 11,5                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.509A1- | 11,509               | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.600A1- | 11,6                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.700A1- | 11,7                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.800A1- | 11,8                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-11.900A1- | 11,9                 | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-12.000A1- | 12                   | 56                   | 118                  | 71                   | 45                   | 12                         | ☹      |
|                                                                                                  | ★ DC175-05-12.100A1- | 12,1                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.200A1- | 12,2                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.300A1- | 12,3                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.303A1- | 12,303               | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.500A1- | 12,5                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.600A1- | 12,6                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.700A1- | 12,7                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-12.800A1- | 12,8                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-13.000A1- | 13                   | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-13.100A1- | 13,1                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-13.300A1- | 13,3                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-13.494A1- | 13,494               | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-13.500A1- | 13,5                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-13.800A1- | 13,8                 | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-14.000A1- | 14                   | 60                   | 124                  | 77                   | 45                   | 14                         | ☹      |
|                                                                                                  | ★ DC175-05-14.200A1- | 14,2                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-14.288A1- | 14,288               | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-14.400A1- | 14,4                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-14.500A1- | 14,5                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-14.800A1- | 14,8                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-15.000A1- | 15                   | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-15.100A1- | 15,1                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-15.300A1- | 15,3                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-15.500A1- | 15,5                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-15.800A1- | 15,8                 | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-15.875A1- | 15,875               | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-16.000A1- | 16                   | 63                   | 133                  | 83                   | 48                   | 16                         | ☹      |
|                                                                                                  | ★ DC175-05-16.500A1- | 16,5                 | 71                   | 143                  | 93                   | 48                   | 18                         | ☹      |
|                                                                                                  | ★ DC175-05-17.000A1- | 17                   | 71                   | 143                  | 93                   | 48                   | 18                         | ☹      |

For dia. 3–3.75: Overall length according to DIN 6537 L, grooves shortened compared to DIN 6537 L



| Tool                                                                                             | Designation          | D <sub>c</sub><br>m7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RZ                                                                              |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|
| DIN 6535 HA<br> | ★ DC175-05-17.500A1- | 17,5                       | 71                   | 143                  | 93                   | 48                   | 18                         |  |
|                                                                                                  | ★ DC175-05-18.000A1- | 18                         | 71                   | 143                  | 93                   | 48                   | 18                         |  |
|                                                                                                  | ★ DC175-05-18.500A1- | 18,5                       | 77                   | 153                  | 101                  | 50                   | 20                         |  |
|                                                                                                  | ★ DC175-05-19.000A1- | 19                         | 77                   | 153                  | 101                  | 50                   | 20                         |  |
|                                                                                                  | ★ DC175-05-19.500A1- | 19,5                       | 77                   | 153                  | 101                  | 50                   | 20                         |  |
|                                                                                                  | ★ DC175-05-20.000A1- | 20                         | 77                   | 153                  | 101                  | 50                   | 20                         |  |

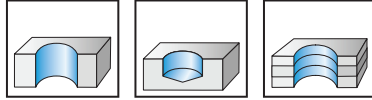
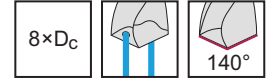
For dia. 3–3.75: Overall length according to DIN 6537 L, grooves shortened compared to DIN 6537 L

# Solid carbide twist drills

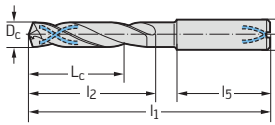
## DC175 Supreme

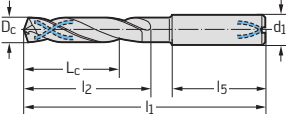


– Walter precision cooling



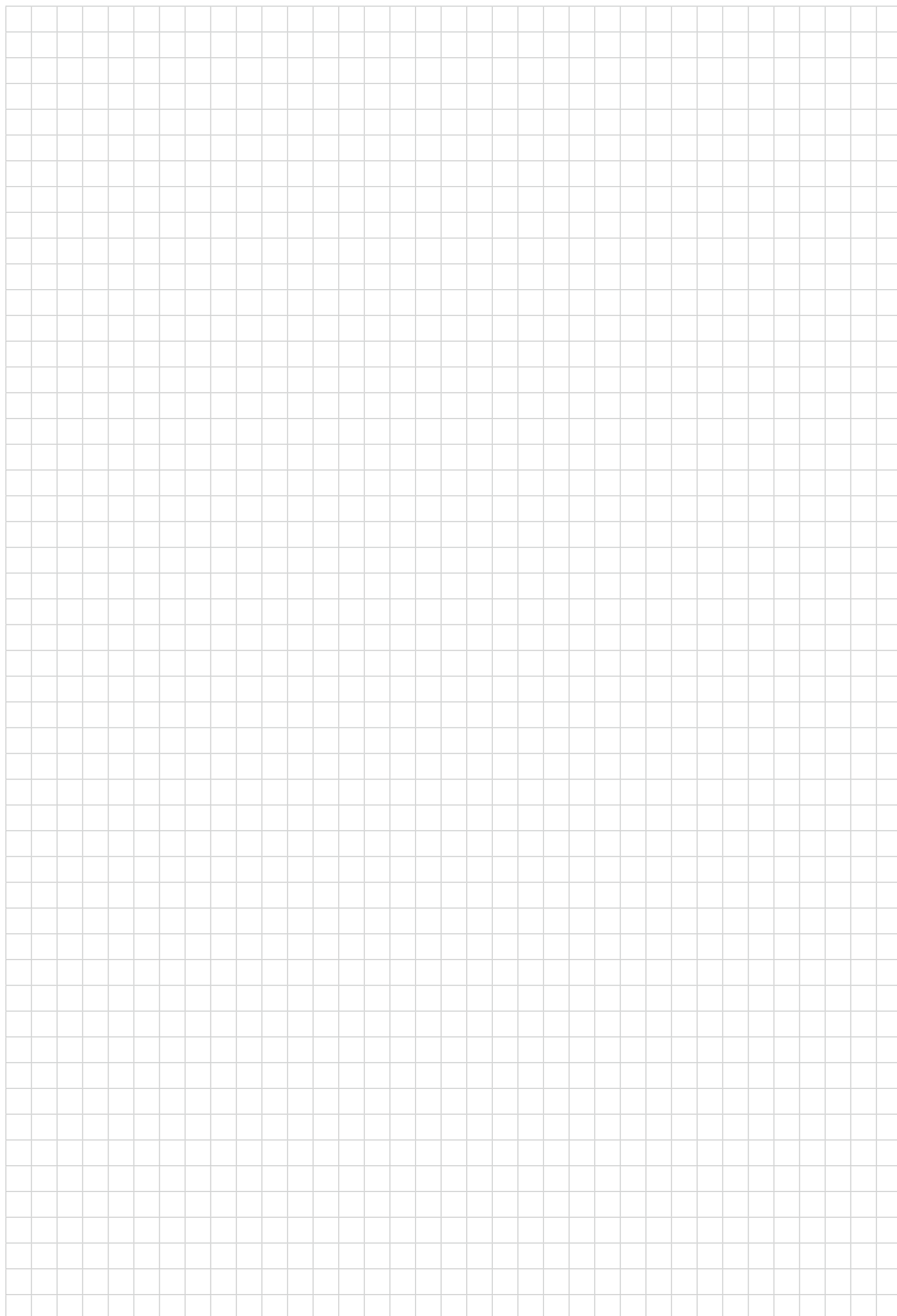
|        | P | M  | K | N | S  | H | O |
|--------|---|----|---|---|----|---|---|
| WJ30RY | ● | ●● | ● | ● | ●● | ● | ● |

| Tool                                                                                             | Designation          | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | ADJCFM |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|--------|
| DIN 6535 HA<br> | ★ DC175-08-03.400A1- | 3,4                  | 28                   | 74                   | 34                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-03.500A1- | 3,5                  | 28                   | 74                   | 34                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-03.700A1- | 3,7                  | 28                   | 74                   | 34                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-04.763A1- | 4,763                | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-04.800A1- | 4,8                  | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-05.000A1- | 5                    | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-05.100A1- | 5,1                  | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-05.200A1- | 5,2                  | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-05.500A1- | 5,5                  | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-05.600A1- | 5,6                  | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-05.800A1- | 5,8                  | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-06.000A1- | 6                    | 48                   | 97                   | 57                   | 36                   | 6                          | ☹      |
|                                                                                                  | ★ DC175-08-06.100A1- | 6,1                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.200A1- | 6,2                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.300A1- | 6,3                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.350A1- | 6,35                 | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.400A1- | 6,4                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.500A1- | 6,5                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.600A1- | 6,6                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.700A1- | 6,7                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.800A1- | 6,8                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-06.900A1- | 6,9                  | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-07.000A1- | 7                    | 55                   | 106                  | 66                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-07.144A1- | 7,144                | 64                   | 116                  | 76                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-07.500A1- | 7,5                  | 64                   | 116                  | 76                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-07.600A1- | 7,6                  | 64                   | 116                  | 76                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-07.700A1- | 7,7                  | 64                   | 116                  | 76                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-08.000A1- | 8                    | 64                   | 116                  | 76                   | 36                   | 8                          | ☹      |
|                                                                                                  | ★ DC175-08-08.100A1- | 8,1                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-08.200A1- | 8,2                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-08.400A1- | 8,4                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-08.500A1- | 8,5                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-08.600A1- | 8,6                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-08.700A1- | 8,7                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-08.800A1- | 8,8                  | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |
|                                                                                                  | ★ DC175-08-09.000A1- | 9                    | 80                   | 139                  | 95                   | 40                   | 10                         | ☹      |

| Tool                                                                                             | Designation          | D <sub>c</sub><br>m7<br>mm | L <sub>c</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>h6<br>mm | WJ30RY                                                                              |
|--------------------------------------------------------------------------------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|
| DIN 6535 HA<br> | ★ DC175-08-09.200A1- | 9,2                        | 80                   | 139                  | 95                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-08-09.300A1- | 9,3                        | 80                   | 139                  | 95                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-08-09.500A1- | 9,5                        | 80                   | 139                  | 95                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-08-09.800A1- | 9,8                        | 80                   | 139                  | 95                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-08-10.000A1- | 10                         | 80                   | 139                  | 95                   | 40                   | 10                         |  |
|                                                                                                  | ★ DC175-08-10.200A1- | 10,2                       | 96                   | 163                  | 114                  | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-08-10.500A1- | 10,5                       | 96                   | 163                  | 114                  | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-08-11.000A1- | 11                         | 96                   | 163                  | 114                  | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-08-11.500A1- | 11,5                       | 96                   | 163                  | 114                  | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-08-12.000A1- | 12                         | 96                   | 163                  | 114                  | 45                   | 12                         |  |
|                                                                                                  | ★ DC175-08-12.500A1- | 12,5                       | 119                  | 182                  | 133                  | 45                   | 14                         |  |
|                                                                                                  | ★ DC175-08-13.000A1- | 13                         | 119                  | 182                  | 133                  | 45                   | 14                         |  |
|                                                                                                  | ★ DC175-08-14.000A1- | 14                         | 119                  | 182                  | 133                  | 45                   | 14                         |  |
|                                                                                                  | ★ DC175-08-15.000A1- | 15                         | 136                  | 204                  | 152                  | 48                   | 16                         |  |
|                                                                                                  | ★ DC175-08-16.000A1- | 16                         | 136                  | 204                  | 152                  | 48                   | 16                         |  |

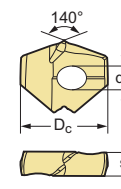
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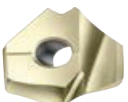


## Exchangeable-tip drills

### P6006



#### Drill inserts

|                                                                                   | Designation   | Number of cutting edges | D <sub>c</sub><br>mm | Seat size | d <sub>1</sub><br>mm | s<br>mm | P     |
|-----------------------------------------------------------------------------------|---------------|-------------------------|----------------------|-----------|----------------------|---------|-------|
|                                                                                   |               |                         |                      |           |                      |         | HC    |
|  | P6006-D12,00R | 2                       | 12                   | A         | 3                    | 3,6     | WPP25 |
|                                                                                   | P6006-D12,50R | 2                       | 12,5                 | A         | 3                    | 3,6     | WPP25 |
|                                                                                   | P6006-D12,70R | 2                       | 12,7                 | A         | 3                    | 3,6     | WPP25 |
|                                                                                   | P6006-D13,00R | 2                       | 13                   | A         | 3                    | 3,6     | WPP25 |
|                                                                                   | P6006-D13,50R | 2                       | 13,5                 | A         | 3                    | 3,6     | WPP25 |
|                                                                                   | P6006-D13,70R | 2                       | 13,7                 | A         | 3                    | 3,6     | WPP25 |
|                                                                                   | P6006-D14,00R | 2                       | 14                   | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D14,10R | 2                       | 14,1                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D14,20R | 2                       | 14,2                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D14,30R | 2                       | 14,3                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D14,50R | 2                       | 14,5                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D14,68R | 2                       | 14,68                | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,00R | 2                       | 15                   | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,09R | 2                       | 15,09                | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,20R | 2                       | 15,2                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,30R | 2                       | 15,3                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,50R | 2                       | 15,5                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,70R | 2                       | 15,7                 | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D15,87R | 2                       | 15,87                | B         | 3                    | 4       | WPP25 |
|                                                                                   | P6006-D16,00R | 2                       | 16                   | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D16,26R | 2                       | 16,26                | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D16,50R | 2                       | 16,5                 | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D16,66R | 2                       | 16,66                | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D16,70R | 2                       | 16,7                 | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D17,00R | 2                       | 17                   | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D17,07R | 2                       | 17,07                | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D17,45R | 2                       | 17,45                | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D17,50R | 2                       | 17,5                 | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D17,70R | 2                       | 17,7                 | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D17,86R | 2                       | 17,86                | C         | 4                    | 4,5     | WPP25 |
|                                                                                   | P6006-D18,00R | 2                       | 18                   | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D18,24R | 2                       | 18,24                | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D18,50R | 2                       | 18,5                 | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D18,65R | 2                       | 18,65                | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D18,70R | 2                       | 18,7                 | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D19,00R | 2                       | 19                   | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D19,05R | 2                       | 19,05                | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D19,25R | 2                       | 19,25                | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D19,50R | 2                       | 19,5                 | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D19,70R | 2                       | 19,7                 | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D19,84R | 2                       | 19,84                | D         | 4                    | 5       | WPP25 |
|                                                                                   | P6006-D20,00R | 2                       | 20                   | E         | 5                    | 5,5     | WPP25 |
|                                                                                   | P6006-D20,24R | 2                       | 20,24                | E         | 5                    | 5,5     | WPP25 |
|                                                                                   | P6006-D20,50R | 2                       | 20,5                 | E         | 5                    | 5,5     | WPP25 |
|                                                                                   | P6006-D20,62R | 2                       | 20,62                | E         | 5                    | 5,5     | WPP25 |
|                                                                                   | P6006-D20,70R | 2                       | 20,7                 | E         | 5                    | 5,5     | WPP25 |

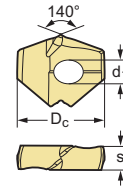
Ordering example: P60.. -D13,00R is available as  
P6006 in the WPP25 grade (ISO P, unalloyed steels): P6006-D13,00R WPP25

HC = Coated carbide

B1

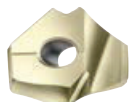
## Exchangeable-tip drills

### P6006



#### Drill inserts

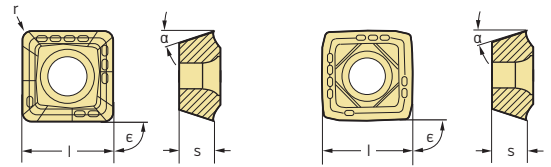
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|                                                                                   | Designation   | Number of cutting edges | D <sub>c</sub> mm | Seat size | d <sub>1</sub> mm | s mm | P     |
|-----------------------------------------------------------------------------------|---------------|-------------------------|-------------------|-----------|-------------------|------|-------|
|                                                                                   |               |                         |                   |           |                   |      | HC    |
|  | P6006-D21,00R | 2                       | 21                | E         | 5                 | 5,5  | WPP25 |
|                                                                                   | P6006-D21,50R | 2                       | 21,5              | E         | 5                 | 5,5  | WPP25 |
|                                                                                   | P6006-D21,70R | 2                       | 21,7              | E         | 5                 | 5,5  | WPP25 |
|                                                                                   | P6006-D22,00R | 2                       | 22                | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D22,22R | 2                       | 22,22             | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D22,50R | 2                       | 22,5              | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D22,70R | 2                       | 22,7              | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D23,00R | 2                       | 23                | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D23,50R | 2                       | 23,5              | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D23,80R | 2                       | 23,8              | F         | 5                 | 6    | WPP25 |
|                                                                                   | P6006-D24,00R | 2                       | 24                | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D24,50R | 2                       | 24,5              | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D24,70R | 2                       | 24,7              | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,00R | 2                       | 25                | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,25R | 2                       | 25,25             | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,40R | 2                       | 25,4              | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,50R | 2                       | 25,5              | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,65R | 2                       | 25,65             | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,70R | 2                       | 25,7              | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D25,80R | 2                       | 25,8              | G         | 5                 | 6,5  | WPP25 |
|                                                                                   | P6006-D26,00R | 2                       | 26                | H         | 6                 | 7,1  | WPP25 |
|                                                                                   | P6006-D26,25R | 2                       | 26,25             | H         | 6                 | 7,1  | WPP25 |
|                                                                                   | P6006-D26,50R | 2                       | 26,5              | H         | 6                 | 7,1  | WPP25 |
|                                                                                   | P6006-D27,00R | 2                       | 27                | H         | 6                 | 7,1  | WPP25 |
|                                                                                   | P6006-D27,50R | 2                       | 27,5              | H         | 6                 | 7,1  | WPP25 |
|                                                                                   | P6006-D28,00R | 2                       | 28                | J         | 6                 | 7,7  | WPP25 |
|                                                                                   | P6006-D28,50R | 2                       | 28,5              | J         | 6                 | 7,7  | WPP25 |
|                                                                                   | P6006-D28,57R | 2                       | 28,57             | J         | 6                 | 7,7  | WPP25 |
|                                                                                   | P6006-D29,00R | 2                       | 29                | J         | 6                 | 7,7  | WPP25 |
|                                                                                   | P6006-D29,50R | 2                       | 29,5              | J         | 6                 | 7,7  | WPP25 |
|                                                                                   | P6006-D30,00R | 2                       | 30                | K         | 6                 | 8    | WPP25 |
|                                                                                   | P6006-D30,50R | 2                       | 30,5              | K         | 6                 | 8    | WPP25 |
|                                                                                   | P6006-D31,00R | 2                       | 31                | K         | 6                 | 8    | WPP25 |
|                                                                                   | P6006-D31,50R | 2                       | 31,5              | K         | 6                 | 8    | WPP25 |
|                                                                                   | P6006-D31,75R | 2                       | 31,75             | K         | 6                 | 8    | WPP25 |
|                                                                                   | P6006-D31,99R | 2                       | 31,99             | K         | 6                 | 8    | WPP25 |
|                                                                                   | P6006-D32,00R | 2                       | 32                | M         | 6                 | 8,3  | WPP25 |
|                                                                                   | P6006-D33,00R | 2                       | 33                | M         | 6                 | 8,3  | WPP25 |
|                                                                                   | P6006-D34,00R | 2                       | 34                | N         | 6                 | 8,6  | WPP25 |
|                                                                                   | P6006-D35,00R | 2                       | 35                | N         | 6                 | 8,6  | WPP25 |
|                                                                                   | P6006-D36,00R | 2                       | 36                | P         | 6                 | 8,9  | WPP25 |
|                                                                                   | P6006-D37,00R | 2                       | 37                | P         | 6                 | 8,9  | WPP25 |
|                                                                                   | P6006-D37,99R | 2                       | 37,99             | P         | 6                 | 8,9  | WPP25 |

Ordering example: P60...-D13,00R is available as  
P6006 in the WPP25 grade (ISO P, unalloyed steels): P6006-D13,00R WPP25

HC = Coated carbide

## Square P484 .



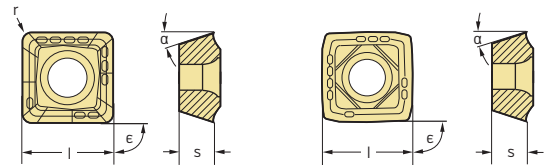
### Indexable inserts

|                                                                                   | Designation   | Number of cutting edges | l mm  | s mm | r mm | α   | ε   | N                                                                                   |
|-----------------------------------------------------------------------------------|---------------|-------------------------|-------|------|------|-----|-----|-------------------------------------------------------------------------------------|
|                                                                                   |               |                         |       |      |      |     |     | HC                                                                                  |
|                                                                                   |               |                         |       |      |      |     |     | WNN15                                                                               |
|  | P4840C-1R-E77 | 4                       | 4,9   | 1,96 | 0,29 | 11° | 90° |  |
|                                                                                   | P4840C-2R-E77 | 4                       | 5,95  | 2,38 | 0,34 | 11° | 90° |  |
|                                                                                   | P4840C-3R-E77 | 4                       | 7     | 2,8  | 0,4  | 11° | 90° |  |
|                                                                                   | P4840C-4R-E77 | 4                       | 8,4   | 3,36 | 0,48 | 11° | 90° |  |
|                                                                                   | P4840C-5R-E77 | 4                       | 10,29 | 4,12 | 0,59 | 11° | 90° |  |
|                                                                                   | P4840C-6R-E77 | 4                       | 12,24 | 4,87 | 0,7  | 11° | 90° |  |
|                                                                                   | P4840C-7R-E77 | 4                       | 14,69 | 5,53 | 0,8  | 11° | 90° |  |
|                                                                                   | P4840C-8R-E77 | 4                       | 17,49 | 5,56 | 1    | 11° | 90° |  |

HC = Coated carbide

B1

## Square P484 .

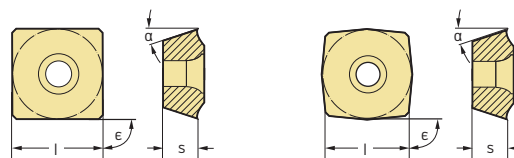


### Indexable inserts

|                                                                                     | Designation   | Number of cutting edges | l mm  | s mm | r mm | α   | ε   | N                                                                                     |
|-------------------------------------------------------------------------------------|---------------|-------------------------|-------|------|------|-----|-----|---------------------------------------------------------------------------------------|
|                                                                                     |               |                         |       |      |      |     |     | HC                                                                                    |
|                                                                                     |               |                         |       |      |      |     |     | WNN15                                                                                 |
|  | P4840P-1R-E77 | 4                       | 4,55  | 1,96 | 0,29 | 11° | 90° |  |
|                                                                                     | P4840P-2R-E77 | 4                       | 5,52  | 2,28 | 0,34 | 11° | 90° |  |
|                                                                                     | P4840P-3R-E77 | 4                       | 6,5   | 2,8  | 0,4  | 11° | 90° |  |
|                                                                                     | P4840P-4R-E77 | 4                       | 7,8   | 3,36 | 0,48 | 11° | 90° |  |
|                                                                                     | P4840P-5R-E77 | 4                       | 9,56  | 4,12 | 0,59 | 11° | 90° |  |
|                                                                                     | P4840P-6R-E77 | 4                       | 11,75 | 4,87 | 0,7  | 11° | 90° |  |
|                                                                                     | P4840P-7R-E77 | 4                       | 14,03 | 5,53 | 0,8  | 11° | 90° |  |
|                                                                                     | P4840P-8R-E77 | 4                       | 16,5  | 5,53 | 1    | 11° | 90° |  |

HC = Coated carbide

## Square P284..

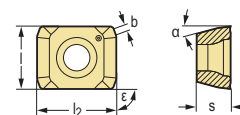


### Indexable inserts

|                                                                                   | Designation   | Number of cutting edges | l mm | s mm | α   | ε   | N                                                                                   |
|-----------------------------------------------------------------------------------|---------------|-------------------------|------|------|-----|-----|-------------------------------------------------------------------------------------|
|                                                                                   |               |                         |      |      |     |     | HC                                                                                  |
|  | Designation   | Number of cutting edges | l mm | s mm | α   | ε   | WNN15                                                                               |
|                                                                                   | P2840S-1N-E77 | 4                       | 6,35 | 2,38 | 14° | 90° |  |
|                                                                                   | P2840S-2N-E77 | 4                       | 7,8  | 3,18 | 14° | 90° |  |
|                                                                                   | P2840S-3N-E77 | 4                       | 9,52 | 3,97 | 11° | 96° |  |
|                                                                                   | P2840S-4N-E77 | 4                       | 11   | 3,97 | 11° | 96° |  |
|                                                                                   | P2840S-5N-E77 | 4                       | 12,7 | 4,76 | 11° | 96° |  |
|                                                                                   | P2840S-6N-E77 | 4                       | 15   | 4,76 | 11° | 96° |  |
|                                                                                   | P2840S-7N-E77 | 4                       | 17,6 | 5,56 | 11° | 96° |  |

HC = Coated carbide

## Rectangular LCGX

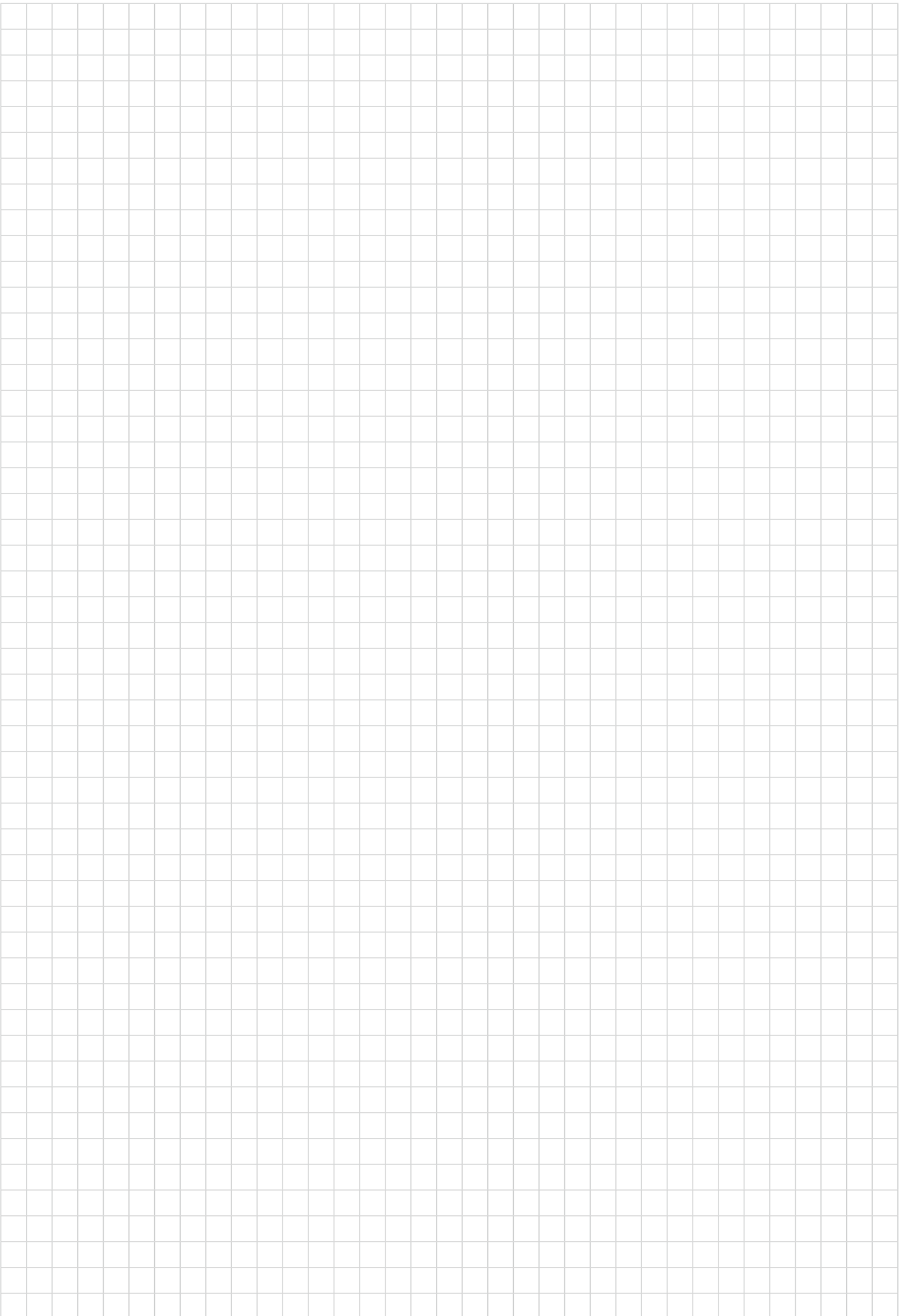


### Indexable inserts

|                                                                                     | Designation    | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | α  | ε   | b mm | N                                                                                     |
|-------------------------------------------------------------------------------------|----------------|-------------------------|------|-------------------|------|----|-----|------|---------------------------------------------------------------------------------------|
|                                                                                     |                |                         |      |                   |      |    |     |      | HC                                                                                    |
|  | Designation    | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | α  | ε   | b mm | WNN15                                                                                 |
|                                                                                     | LCGX050203-E77 | 2                       | 4    | 5,2               | 2,38 | 7° | 90° | 0,6  |  |
|                                                                                     | LCGX06T204-E77 | 2                       | 5,2  | 6,6               | 2,78 | 7° | 90° | 0,8  |  |

HC = Coated carbide





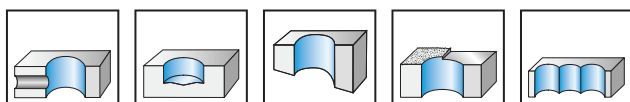
B1

# Indexable insert drills

D3120-03 mm

3×D<sub>C</sub>

Z=1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D3120-03 | ● | ● | ● | ● | ● |   |   |

## Tool

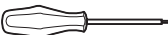
|  | Designation             | D <sub>C</sub><br>mm | L <sub>C</sub><br>mm | l <sub>4</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>mm | d <sub>4</sub><br>mm | kg   | No. of<br>indexable<br>inserts | Type            |
|--|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|--------------------------------|-----------------|
|  | D3120-03-16.00F25-P21   | 16                   | 48                   | 73                   | 56                   | 25                   | 32                   | 0,31 | 2                              | P284 . S-1N- .. |
|  | D3120-03-17.00F25-P21   | 17                   | 51                   | 76                   | 56                   | 25                   | 32                   | 0,32 | 2                              |                 |
|  | ★ D3120-03-17.50F25-P21 | 17,5                 | 52,5                 | 77,5                 | 56                   | 25                   | 32                   | 0,33 | 2                              |                 |
|  | D3120-03-18.00F25-P21   | 18                   | 54                   | 79                   | 56                   | 25                   | 32                   | 0,33 | 2                              |                 |
|  | D3120-03-19.00F25-P21   | 19                   | 57                   | 82                   | 56                   | 25                   | 32                   | 0,34 | 2                              |                 |
|  | ★ D3120-03-19.50F25-P21 | 19,5                 | 58,5                 | 83,5                 | 56                   | 25                   | 32                   | 0,35 | 2                              |                 |
|  | D3120-03-20.00F25-P21   | 20                   | 60                   | 85                   | 56                   | 25                   | 32                   | 0,4  | 2                              |                 |
|  | D3120-03-26.00F32-P23   | 26                   | 78                   | 110                  | 60                   | 32                   | 40                   | 0,67 | 2                              | P284 . S-3N- .. |
|  | ★ D3120-03-26.50F32-P23 | 26,5                 | 79,5                 | 111,5                | 60                   | 32                   | 40                   | 0,69 | 2                              |                 |
|  | D3120-03-27.00F32-P23   | 27                   | 81                   | 113                  | 60                   | 32                   | 40                   | 0,74 | 2                              |                 |
|  | D3120-03-28.00F32-P23   | 28                   | 84                   | 116                  | 60                   | 32                   | 40                   | 0,73 | 2                              |                 |
|  | D3120-03-29.00F32-P23   | 29                   | 87                   | 119                  | 60                   | 32                   | 40                   | 0,76 | 2                              |                 |
|  | ★ D3120-03-29.50F32-P23 | 29,5                 | 88,5                 | 120,5                | 60                   | 32                   | 40                   | 0,78 | 2                              |                 |
|  | D3120-03-30.00F32-P23   | 30                   | 90                   | 122                  | 60                   | 32                   | 40                   | 0,84 | 2                              |                 |
|  | D3120-03-37.00F40-P25   | 37                   | 111                  | 151                  | 70                   | 40                   | 50                   | 1,43 | 2                              | P284 . S-5N- .. |
|  | ★ D3120-03-37.50F40-P25 | 37,5                 | 112,5                | 152,5                | 70                   | 40                   | 50                   | 1,46 | 2                              |                 |
|  | D3120-03-38.00F40-P25   | 38                   | 114                  | 154                  | 70                   | 40                   | 50                   | 1,49 | 2                              |                 |
|  | D3120-03-39.00F40-P25   | 39                   | 117                  | 157                  | 70                   | 40                   | 50                   | 1,64 | 2                              |                 |
|  | D3120-03-40.00F40-P25   | 40                   | 120                  | 160                  | 70                   | 40                   | 50                   | 1,6  | 2                              |                 |
|  | ★ D3120-03-40.50F40-P25 | 40,5                 | 121,5                | 161,5                | 70                   | 40                   | 50                   | 1,64 | 2                              |                 |
|  | D3120-03-41.00F40-P25   | 41                   | 123                  | 163                  | 70                   | 40                   | 50                   | 1,67 | 2                              |                 |
|  | D3120-03-42.00F40-P25   | 42                   | 126                  | 166                  | 70                   | 40                   | 50                   | 1,83 | 2                              |                 |
|  | ★ D3120-03-43.00F40-P26 | 43                   | 129                  | 169                  | 70                   | 40                   | 50                   | 1,74 | 2                              | P284 . S-6N- .. |
|  | ★ D3120-03-44.00F40-P26 | 44                   | 132                  | 172                  | 70                   | 40                   | 50                   | 1,81 | 2                              |                 |
|  | ★ D3120-03-45.00F40-P26 | 45                   | 135                  | 175                  | 70                   | 40                   | 50                   | 1,89 | 2                              |                 |
|  | ★ D3120-03-46.00F40-P26 | 46                   | 138                  | 178                  | 70                   | 40                   | 50                   | 1,98 | 2                              |                 |
|  | ★ D3120-03-47.00F40-P26 | 47                   | 141                  | 181                  | 70                   | 40                   | 50                   | 2,05 | 2                              |                 |
|  | ★ D3120-03-48.00F40-P26 | 48                   | 144                  | 184                  | 70                   | 40                   | 50                   | 2,14 | 2                              |                 |
|  | ★ D3120-03-49.00F40-P26 | 49                   | 147                  | 187                  | 70                   | 40                   | 50                   | 2,23 | 2                              |                 |
|  | ★ D3120-03-50.00F40-P26 | 50                   | 150                  | 190                  | 70                   | 40                   | 50                   | 2,33 | 2                              |                 |
|  | ★ D3120-03-50.50F40-P27 | 50,5                 | 151,5                | 191,5                | 70                   | 40                   | 50                   | 2,29 | 2                              | P284 . S-7N- .. |
|  | ★ D3120-03-51.00F40-P27 | 51                   | 153                  | 193                  | 70                   | 40                   | 50                   | 2,34 | 2                              |                 |
|  | ★ D3120-03-52.00F40-P27 | 52                   | 156                  | 196                  | 70                   | 40                   | 50                   | 2,44 | 2                              |                 |
|  | ★ D3120-03-53.00F40-P27 | 53                   | 159                  | 199                  | 70                   | 40                   | 50                   | 2,55 | 2                              |                 |
|  | ★ D3120-03-54.00F40-P27 | 54                   | 162                  | 202                  | 70                   | 40                   | 50                   | 2,67 | 2                              |                 |
|  | ★ D3120-03-54.50F40-P27 | 54,5                 | 163,5                | 203,5                | 70                   | 40                   | 50                   | 2,73 | 2                              |                 |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 16–20                   | 26–30                  | 37–42                  | 43–58                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|------------------------|------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>1,2 Nm | FS2181 (T15IP)<br>3 Nm | FS2139 (T20IP)<br>5 Nm | FS2281 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 16–20         | 26–30          | 37–58          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|                                                                                                  | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WXP40                                                                               | WSP45G                                                                              | WSP45S                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              |
|  P2840S-1N-A57 |    |    |    |    |    |    |    |    |    |    |    |    |
| P2840S-1N-E67                                                                                    |   |   |   |   |   |   |   |   |   |   |   |   |
| P2841S-1N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-1N-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-1N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-3N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-3N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-3N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-3N-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-3N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-5N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-5N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-5N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-5N-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-5N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-6N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-6N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-6N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-6N-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-6N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-7N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2840S-7N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-7N-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-7N-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| P2841S-7N-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |

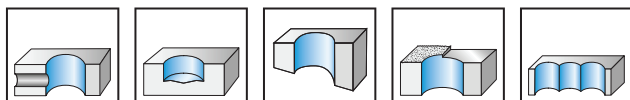
HC = Coated carbide  
HW = Uncoated carbide

# Indexable insert drills

D3120-03 mm

 $3 \times D_c$ 
 $Z = 1$ 

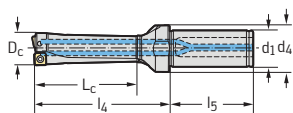
B1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D3120-03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

 $D_c$   
mm

 $L_c$   
mm

 $l_4$   
mm

 $l_5$   
mm

 $d_1$   
mm

 $d_4$   
mm

kg

No. of  
indexable  
inserts

Type

★ D3120-03-55.00F40-P27

55

165

205

70

40

50

2,79

2

P284 . S-7N- ..

★ D3120-03-56.00F40-P27

56

168

208

70

40

50

2,91

2

★ D3120-03-57.00F40-P27

57

171

211

70

40

50

3,04

2

★ D3120-03-58.00F40-P27

58

174

214

70

40

50

3,17

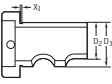
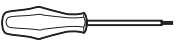
2

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 16–20                   | 26–30                  | 37–42                  | 43–58                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|------------------------|------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>1,2 Nm | FS2181 (T15IP)<br>3 Nm | FS2139 (T20IP)<br>5 Nm | FS2281 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 16–20         | 26–30          | 37–58          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|----------------|----------------|
|  | Eccentric sleeve             |               |                |                |
|                                                                                   | FS722                        | FS723         | FS724          |                |
|  | Torque screwdriver, analogue | FS2001        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                       | P      |        |        |        | M     |        |        |       | K      |        | S      |        |
|---------------------------------------------------------------------------------------------------|--------|--------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|
|                                                                                                   | HC     |        |        |        | HC    |        |        |       | HC     |        | HC     |        |
|                                                                                                   | WKP25S | WKP35S | WSP45G | WSP45S | WXP40 | WSP45G | WSP45S | WXP40 | WKP25S | WKP35S | WSP45G | WSP45S |
|  P2840S-1N-A57 |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-1N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-1N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-1N-E57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-1N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-3N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-3N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-3N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-3N-E57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-3N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-5N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-5N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-5N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-5N-E57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-5N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-6N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-6N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-6N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-6N-E57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-6N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-7N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2840S-7N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-7N-A57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-7N-E57                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |
| P2841S-7N-E67                                                                                     |        |        |        |        |       |        |        |       |        |        |        |        |

HC = Coated carbide  
HW = Uncoated carbide

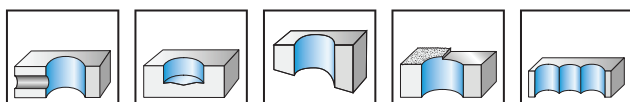
# Indexable insert drills

D4120.02 inch



2×D<sub>C</sub>

Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.02 | ● | ● | ● | ● | ● |   |   |

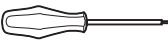
| Tool                            | Designation           | D <sub>C</sub><br>inch | L <sub>C</sub><br>inch | l <sub>4</sub><br>inch | l <sub>5</sub><br>inch | d <sub>1</sub><br>inch | d <sub>4</sub><br>inch | lbs   | No. of<br>indexable<br>inserts | Type                                 |
|---------------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------|--------------------------------|--------------------------------------|
| <p>Parallel shank with flat</p> | D4120.02-13.49F19-P41 | 0,531                  | 1,062                  | 1,849                  | 2,031                  | 0,750                  | 1,125                  | 0,009 | 1<br>1                         | P484 . P-1R- ...<br>P484 . C-1R- ... |
|                                 | D4120.02-13.89F19-P41 | 0,547                  | 1,094                  | 1,881                  | 2,031                  | 0,750                  | 1,125                  | 0,009 | 1<br>1                         |                                      |
|                                 | D4120.02-14.27F19-P41 | 0,562                  | 1,124                  | 1,911                  | 2,031                  | 0,750                  | 1,125                  | 0,009 | 1<br>1                         |                                      |
|                                 | D4120.02-14.68F19-P41 | 0,578                  | 1,156                  | 1,943                  | 2,031                  | 0,750                  | 1,125                  | 0,009 | 1<br>1                         |                                      |
|                                 | D4120.02-15.09F19-P41 | 0,594                  | 1,188                  | 1,975                  | 2,031                  | 0,750                  | 1,125                  | 0,009 | 1<br>1                         |                                      |
|                                 | D4120.02-15.47F19-P41 | 0,609                  | 1,218                  | 2,005                  | 2,031                  | 0,750                  | 1,125                  | 0,009 | 1<br>1                         |                                      |
|                                 | D4120.02-15.88F19-P41 | 0,625                  | 1,250                  | 2,037                  | 2,031                  | 0,750                  | 1,125                  | 0,010 | 1<br>1                         |                                      |
| <p>Parallel shank with flat</p> | D4120.02-16.66F26-P42 | 0,656                  | 1,312                  | 2,310                  | 2,281                  | 1,000                  | 1,375                  | 0,016 | 1<br>1                         | P484 . P-2R- ...<br>P484 . C-2R- ... |
|                                 | D4120.02-17.04F26-P42 | 0,671                  | 1,342                  | 2,34                   | 2,281                  | 1,000                  | 1,375                  | 0,017 | 1<br>1                         |                                      |
|                                 | D4120.02-17.45F26-P42 | 0,687                  | 1,374                  | 2,37                   | 2,281                  | 1,000                  | 1,375                  | 0,014 | 1<br>1                         |                                      |
|                                 | D4120.02-17.86F26-P42 | 0,703                  | 1,406                  | 2,410                  | 2,281                  | 1,000                  | 1,375                  | 0,017 | 1<br>1                         |                                      |
|                                 | D4120.02-18.24F26-P42 | 0,718                  | 1,436                  | 2,44                   | 2,281                  | 1,000                  | 1,375                  | 0,017 | 1<br>1                         |                                      |
|                                 | D4120.02-19.05F26-P42 | 0,750                  | 1,500                  | 2,500                  | 2,281                  | 1,000                  | 1,375                  | 0,018 | 1<br>1                         |                                      |
|                                 | D4120.02-19.43F26-P42 | 0,765                  | 1,530                  | 2,530                  | 2,281                  | 1,000                  | 1,375                  | 0,017 | 1<br>1                         |                                      |
|                                 | D4120.02-19.84F26-P42 | 0,781                  | 1,562                  | 2,560                  | 2,281                  | 1,000                  | 1,375                  | 0,016 | 1<br>1                         |                                      |
| <p>Parallel shank with flat</p> | D4120.02-20.62F26-P43 | 0,812                  | 1,624                  | 2,62                   | 2,281                  | 1,000                  | 1,375                  | 0,002 | 1<br>1                         | P484 . P-3R- ...<br>P484 . C-3R- ... |
|                                 | D4120.02-21.41F26-P43 | 0,843                  | 1,686                  | 2,69                   | 2,281                  | 1,000                  | 1,375                  | 0,018 | 1<br>1                         |                                      |
|                                 | D4120.02-22.23F31-P43 | 0,875                  | 1,750                  | 2,880                  | 2,281                  | 1,250                  | 1,625                  | 0,026 | 1<br>1                         |                                      |
|                                 | D4120.02-23.01F31-P43 | 0,906                  | 1,812                  | 2,94                   | 2,281                  | 1,250                  | 1,625                  | 0,026 | 1<br>1                         |                                      |
|                                 | D4120.02-23.39F31-P43 | 0,921                  | 1,842                  | 2,97                   | 2,281                  | 1,250                  | 1,625                  | 0,026 | 1<br>1                         |                                      |
|                                 | D4120.02-23.80F31-P43 | 0,937                  | 1,874                  | 3,000                  | 2,281                  | 1,250                  | 1,625                  | 0,026 | 1<br>1                         |                                      |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,53–0,62                  | 0,66–0,78                  | 0,81–0,94                  | 0,97–1,12                | 1,17–1,38                   | 1,42–1,62                   | 1,69–2,25                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,53–0,62     | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P      |                                                                                     |       |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                   |        | S                                                                                   |                                                                                     |
|--------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | HC     |                                                                                     |       |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |        | HC                                                                                  |                                                                                     |
|                                                                                                  | WKP25S | WKP35S                                                                              | WSP45 | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S | WKP35S                                                                              | WSP45G                                                                              |
|  P4840C-1R-E67 |        |   |       |   |   |   |   |   |        |   |   |
| P4841C-1R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-1R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-2R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-2R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-2R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-3R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-3R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-3R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-4R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-4R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-4R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-5R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-5R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-5R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-6R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-6R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-6R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-7R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-7R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-7R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-8R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-8R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-8R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |

P48 ... C = Centre insert  
P48 ... P = Outer insert

HC = Coated carbide

## Indexable inserts

| Designation   | P                                                                                   |                                                                                     |                                                                                      |                                                                                       | M                                                                                     |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |                                                                                       |                                                                                       |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|               | HC                                                                                  |                                                                                     |                                                                                      |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       |
|               | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                                | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
| P4840P-1R-A57 |   |   |   |   |   |   |   |   |   |   |   |
| P4840P-1R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-1R-E67 |  |  |  |  |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

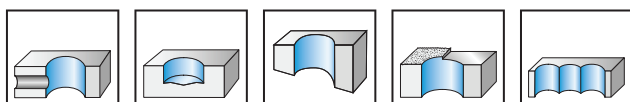
# Indexable insert drills

D4120.02 inch



2×D<sub>C</sub>

Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.02 | ● | ● | ● | ● | ● |   |   |

## Tool

|  | Designation           | D <sub>C</sub><br>inch | L <sub>C</sub><br>inch | l <sub>4</sub><br>inch | l <sub>5</sub><br>inch | d <sub>1</sub><br>inch | d <sub>4</sub><br>inch | lbs   | No. of<br>indexable<br>inserts | Type                                 |
|--|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------|--------------------------------|--------------------------------------|
|  | D4120.02-24.59F31-P44 | 0,968                  | 1,936                  | 3,07                   | 2,281                  | 1,250                  | 1,625                  | 0,028 | 1<br>1                         | P484 . P-4R- ...<br>P484 . C-4R- ... |
|  | D4120.02-24.99F31-P44 | 0,984                  | 1,968                  | 3,100                  | 2,281                  | 1,250                  | 1,625                  | 0,028 | 1<br>1                         |                                      |
|  | D4120.02-25.40F31-P44 | 1,000                  | 2,000                  | 3,130                  | 2,281                  | 1,250                  | 1,625                  | 0,028 | 1<br>1                         |                                      |
|  | D4120.02-26.57F31-P44 | 1,046                  | 2,092                  | 3,22                   | 2,281                  | 1,250                  | 1,625                  | 0,028 | 1<br>1                         |                                      |
|  | D4120.02-26.97F31-P44 | 1,062                  | 2,124                  | 3,250                  | 2,281                  | 1,250                  | 1,625                  | 0,029 | 1<br>1                         |                                      |
|  | D4120.02-28.17F31-P44 | 1,109                  | 2,218                  | 3,350                  | 2,281                  | 1,250                  | 1,625                  | 0,030 | 1<br>1                         |                                      |
|  | D4120.02-28.58F31-P44 | 1,125                  | 2,250                  | 3,380                  | 2,281                  | 1,250                  | 1,625                  | 0,03  | 1<br>1                         |                                      |
|  | D4120.02-29.74F31-P45 | 1,171                  | 2,342                  | 3,47                   | 2,281                  | 1,250                  | 1,625                  | 0,03  | 1<br>1                         | P484 . P-5R- ...<br>P484 . C-5R- ... |
|  | D4120.02-30.15F31-P45 | 1,187                  | 2,374                  | 3,500                  | 2,281                  | 1,250                  | 1,625                  | 0,031 | 1<br>1                         |                                      |
|  | D4120.02-31.75F31-P45 | 1,250                  | 2,500                  | 3,630                  | 2,281                  | 1,250                  | 1,625                  | 0,032 | 1<br>1                         |                                      |
|  | D4120.02-33.32F31-P45 | 1,312                  | 2,624                  | 3,750                  | 2,281                  | 1,250                  | 1,625                  | 0,034 | 1<br>1                         |                                      |
|  | D4120.02-34.11F31-P45 | 1,343                  | 2,686                  | 3,82                   | 2,281                  | 1,250                  | 1,625                  | 0,035 | 1<br>1                         |                                      |
|  | D4120.02-34.93F31-P45 | 1,375                  | 2,750                  | 3,880                  | 2,281                  | 1,250                  | 1,625                  | 0,036 | 1<br>1                         |                                      |
|  | D4120.02-36.09F31-P46 | 1,421                  | 2,842                  | 3,97                   | 2,281                  | 1,250                  | 1,625                  | 0,035 | 1<br>1                         | P484 . P-6R- ...<br>P484 . C-6R- ... |
|  | D4120.02-36.50F38-P46 | 1,437                  | 2,874                  | 4,250                  | 2,688                  | 1,500                  | 1,940                  | 0,051 | 1<br>1                         |                                      |
|  | D4120.02-38.10F38-P46 | 1,500                  | 3,000                  | 4,380                  | 2,688                  | 1,500                  | 1,940                  | 0,054 | 1<br>1                         |                                      |
|  | D4120.02-39.67F38-P46 | 1,562                  | 3,124                  | 4,500                  | 2,688                  | 1,500                  | 1,940                  | 0,053 | 1<br>1                         |                                      |
|  | D4120.02-41.28F38-P46 | 1,625                  | 3,250                  | 4,630                  | 2,688                  | 1,500                  | 1,940                  | 0,055 | 1<br>1                         |                                      |
|  | D4120.02-42.85F38-P47 | 1,687                  | 3,374                  | 4,750                  | 2,688                  | 1,500                  | 1,940                  | 0,054 | 1<br>1                         | P484 . P-7R- ...<br>P484 . C-7R- ... |
|  | D4120.02-44.45F38-P47 | 1,750                  | 3,500                  | 4,880                  | 2,688                  | 1,500                  | 1,940                  | 0,057 | 1<br>1                         |                                      |
|  | D4120.02-46.02F38-P47 | 1,812                  | 3,624                  | 5,000                  | 2,688                  | 1,500                  | 1,940                  | 0,059 | 1<br>1                         |                                      |
|  | D4120.02-47.63F38-P47 | 1,875                  | 3,750                  | 5,130                  | 2,688                  | 1,500                  | 1,940                  | 0,062 | 1<br>1                         |                                      |
|  | D4120.02-49.20F38-P47 | 1,937                  | 3,874                  | 5,250                  | 2,688                  | 1,500                  | 1,940                  | 0,066 | 1<br>1                         |                                      |

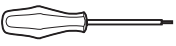
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,53–0,62                  | 0,66–0,78                  | 0,81–0,94                  | 0,97–1,12                | 1,17–1,38                   | 1,42–1,62                   | 1,69–2,25                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,53–0,62     | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

B1

## Indexable inserts

| Designation   | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |
|               | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
| P4840C-1R-E67 |    |    |    |    |    |    |    |    |    |    |    |
| P4841C-1R-A57 |   |   |   |   |   |   |   |   |   |   |   |
| P4841C-1R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-2R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |  |

P48...C = Centre insert  
P48...P = Outer insert

HC = Coated carbide

## Indexable inserts

| Designation   | P                                                                                     |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                      |                                                                                      |                                                                                      | K                                                                                    |                                                                                      | S                                                                                    |
|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|               | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                      |                                                                                      |                                                                                      | HC                                                                                   |                                                                                      | HC                                                                                   |
|               | WKP25S                                                                                | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                | WSP45G                                                                               | WXP40                                                                                | WKP25S                                                                               | WKP35S                                                                               | WSP45G                                                                               |
| P4840P-1R-A57 |    |    |    |    |    |   |   |   |   |   |   |
| P4840P-1R-E57 |   |   |   |   |   |  |  |  |  |  |  |
| P4840P-1R-E67 |  |  |  |  |  |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |

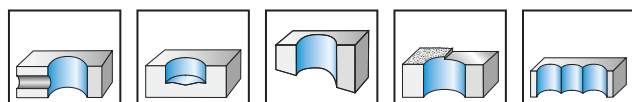
# Indexable insert drills

D4120.02 inch



2×D<sub>C</sub>

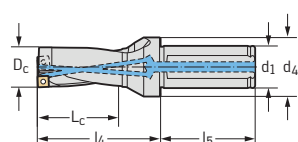
Z=1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.02 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

 lbs

No. of  
indexable  
inserts

Type

D4120.02-50.80F51-P48

2,000

4,000

5,62

3,250

2,000

2,440

0,106

1  
1

P484 . P-8R- ...  
P484 . C-8R- ...

D4120.02-52.37F51-P48

2,062

4,124

5,74

3,250

2,000

2,440

0,11

1  
1

D4120.02-53.98F51-P48

2,125

4,250

5,87

3,250

2,000

2,440

0,115

1  
1

D4120.02-55.55F51-P48

2,187

4,374

5,99

3,250

2,000

2,440

0,119

1  
1

D4120.02-57.15F51-P48

2,250

4,500

6,12

3,250

2,000

2,440

0,124

1  
1

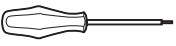
Bodies and assembly parts are included in the scope of delivery.

B1

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,53–0,62                  | 0,66–0,78                  | 0,81–0,94                  | 0,97–1,12                | 1,17–1,38                   | 1,42–1,62                   | 1,69–2,25                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,53–0,62     | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

B1

## Indexable inserts

| Designation   | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|               | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
| P4840C-1R-E67 |    |    |    |    |    |    |    |    |    |    |    |
| P4841C-1R-A57 |   |   |   |   |   |   |   |   |   |   |   |
| P4841C-1R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-2R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |  |

P48...C = Centre insert  
P48...P = Outer insert

HC = Coated carbide

## Indexable inserts

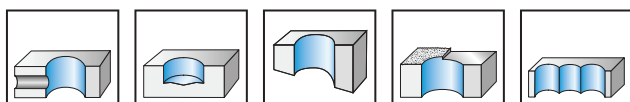
| Designation   | P                                                                                     |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                      | K                                                                                    |                                                                                      | S                                                                                    |                                                                                      |
|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|               | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                      | HC                                                                                   |                                                                                      | HC                                                                                   |                                                                                      |
|               | WKP25S                                                                                | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                               | WXP40                                                                                | WKP25S                                                                               | WKP35S                                                                               | WSP45G                                                                               |
| P4840P-1R-A57 |    |    |    |    |    |    |   |   |   |   |   |
| P4840P-1R-E57 |   |   |   |   |   |   |  |  |  |  |  |
| P4840P-1R-E67 |  |  |  |  |  |  |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |

# Indexable insert drills

D4120-02 mm

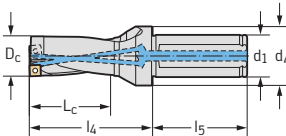
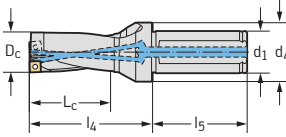
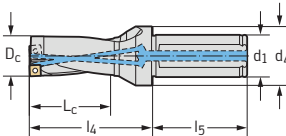
2×D<sub>C</sub>

Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-02 | ● | ● | ● | ● | ● |   |   |

## Tool

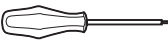
|                                                                                                                 | Designation           | D <sub>C</sub><br>mm | L <sub>C</sub><br>mm | l <sub>4</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>mm | d <sub>4</sub><br>mm | kg   | No. of<br>indexable<br>inserts | Type                                 |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|--------------------------------|--------------------------------------|
| Parallel shank with flat<br>   | D4120-02-13.50F20-P41 | 13,5                 | 27                   | 47                   | 50                   | 20                   | 25                   | 0,23 | 1<br>1                         | P484 . P-1R- ...<br>P484 . C-1R- ... |
|                                                                                                                 | D4120-02-14.00F20-P41 | 14                   | 28                   | 48                   | 50                   | 20                   | 25                   | 0,19 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-14.50F20-P41 | 14,5                 | 29                   | 49                   | 50                   | 20                   | 25                   | 0,24 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-15.00F20-P41 | 15                   | 30                   | 50                   | 50                   | 20                   | 25                   | 0,24 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-15.50F20-P41 | 15,5                 | 31                   | 51                   | 50                   | 20                   | 25                   | 0,23 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-16.00F25-P41 | 16                   | 32                   | 57                   | 56                   | 25                   | 35                   | 0,4  | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-02-16.50F25-P42 | 16,5                 | 33                   | 58                   | 56                   | 25                   | 35                   | 0,41 | 1<br>1                         | P484 . P-2R- ...<br>P484 . C-2R- ... |
|                                                                                                                 | D4120-02-17.00F25-P42 | 17                   | 34                   | 59                   | 56                   | 25                   | 35                   | 0,41 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-17.50F25-P42 | 17,5                 | 35                   | 60                   | 56                   | 25                   | 35                   | 0,4  | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-18.00F25-P42 | 18                   | 36                   | 61                   | 56                   | 25                   | 35                   | 0,42 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-18.50F25-P42 | 18,5                 | 37                   | 62                   | 56                   | 25                   | 35                   | 0,32 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-19.00F25-P42 | 19                   | 38                   | 63                   | 56                   | 25                   | 35                   | 0,42 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-19.50F25-P42 | 19,5                 | 39                   | 64                   | 56                   | 25                   | 35                   | 0,43 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-20.00F25-P42 | 20                   | 40                   | 65                   | 56                   | 25                   | 35                   | 0,43 | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-02-20.50F25-P43 | 20,5                 | 41                   | 66                   | 56                   | 25                   | 35                   | 0,43 | 1<br>1                         | P484 . P-3R- ...<br>P484 . C-3R- ... |
|                                                                                                                 | D4120-02-21.00F25-P43 | 21                   | 42                   | 67                   | 56                   | 25                   | 35                   | 0,45 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-21.50F25-P43 | 21,5                 | 43                   | 68                   | 56                   | 25                   | 35                   | 0,44 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-22.00F25-P43 | 22                   | 44                   | 69                   | 56                   | 25                   | 35                   | 0,44 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-22.50F25-P43 | 22,5                 | 45                   | 70                   | 56                   | 25                   | 35                   | 0,45 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-23.00F25-P43 | 23                   | 46                   | 71                   | 56                   | 25                   | 35                   | 0,48 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-23.50F25-P43 | 23,5                 | 47                   | 72                   | 56                   | 25                   | 35                   | 0,46 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-02-24.00F25-P43 | 24                   | 48                   | 73                   | 56                   | 25                   | 35                   | 0,48 | 1<br>1                         |                                      |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P      |        |       |        |       | M     |        |       | K      |        | S      |
|--------------------------------------------------------------------------------------------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                                  | HC     |        |       |        |       | HC    |        |       | HC     |        | HC     |
|                                                                                                  | WKP255 | WKP355 | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP255 | WKP355 | WSP45G |
|  P4840C-1R-E67 |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-1R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-1R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-2R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-3R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-4R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-5R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-6R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-7R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-8R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |

HC = Coated carbide

## Indexable inserts

| Designation                                                                                      | P<br>HC |        |       |        | M<br>HC |       |        | K<br>HC |        | S<br>HC |        |
|--------------------------------------------------------------------------------------------------|---------|--------|-------|--------|---------|-------|--------|---------|--------|---------|--------|
|                                                                                                  | WKP255  | WKP355 | WSP45 | WSP45G | WXP40   | WSP45 | WSP45G | WXP40   | WKP255 | WKP355  | WSP45G |
|                                                                                                  |         |        |       |        |         |       |        |         |        |         |        |
|  P4840P-1R-A57 |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-1R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-1R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-1R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-1R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-2R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-2R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-2R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-2R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-2R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-3R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-3R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-3R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-3R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-3R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-4R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-4R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-4R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-4R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-4R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-5R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-5R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-5R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-5R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-5R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-6R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-6R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-6R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-6R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-6R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-7R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-7R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-7R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-7R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-7R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-8R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-8R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4840P-8R-E67                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-8R-A57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |
| P4841P-8R-E57                                                                                    |         |        |       |        |         |       |        |         |        |         |        |

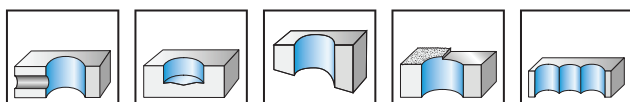
HC = Coated carbide

# Indexable insert drills

D4120-02 mm

2×D<sub>C</sub>

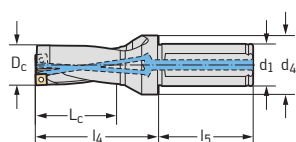
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-02 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-02-24.50F25-P44

24,5

49

74

56

25

35

0,47

1  
1

P484 . P-4R- ...  
P484 . C-4R- ...

D4120-02-25.00F25-P44

25

50

75

56

25

35

0,48

1  
1

D4120-02-25.50F32-P44

25,5

51

83

60

32

42

0,76

1  
1

D4120-02-26.00F32-P44

26

52

84

60

32

42

0,72

1  
1

D4120-02-26.50F32-P44

26,5

53

85

60

32

42

0,78

1  
1

D4120-02-27.00F32-P44

27

54

86

60

32

42

0,77

1  
1

D4120-02-27.50F32-P44

27,5

55

87

60

32

42

0,8

1  
1

D4120-02-28.00F32-P44

28

56

88

60

32

42

0,81

1  
1

D4120-02-28.50F32-P44

28,5

57

89

60

32

42

0,74

1  
1

D4120-02-29.00F32-P44

29

58

90

60

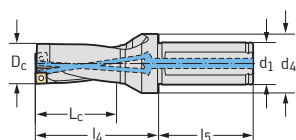
32

42

0,81

1  
1

Parallel shank with flat



D4120-02-29.50F32-P45

29,5

59

91

60

32

42

0,83

1  
1

P484 . P-5R- ...  
P484 . C-5R- ...

D4120-02-30.00F32-P45

30

60

92

60

32

42

0,84

1  
1

D4120-02-31.00F32-P45

31

62

94

60

32

42

0,87

1  
1

D4120-02-32.00F32-P45

32

64

96

60

32

42

0,82

1  
1

D4120-02-33.00F32-P45

33

66

98

60

32

42

0,91

1  
1

D4120-02-34.00F32-P45

34

68

100

60

32

42

0,94

1  
1

D4120-02-35.00F32-P45

35

70

102

60

32

42

0,97

1  
1

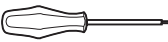
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P      |                                                                                     |       |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K      |                                                                                     | S                                                                                   |
|--------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  |        | HC                                                                                  |       |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC     |                                                                                     | HC                                                                                  |
|                                                                                                  | WKP25S | WKP35S                                                                              | WSP45 | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S | WKP35S                                                                              | WSP45G                                                                              |
|  P4840C-1R-E67 |        |    |       |    |    |    |    |    |        |    |    |
| P4841C-1R-A57                                                                                    |        |   |       |   |   |   |   |   |        |   |   |
| P4841C-1R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-2R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-2R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-2R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-3R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-3R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-3R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-4R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-4R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-4R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-5R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-5R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-5R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-6R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-6R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-6R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-7R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-7R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-7R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4840C-8R-E67                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-8R-A57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |
| P4841C-8R-E57                                                                                    |        |  |       |  |  |  |  |  |        |  |  |

HC = Coated carbide

## Indexable inserts

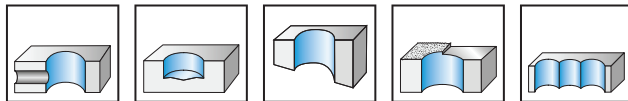
| Designation                                                                                      | P                                                                                     |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |                                                                                       |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |                                                                                       |
|                                                                                                  | WKP25S                                                                                | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|  P4840P-1R-A57 |    |    |    |    |    |    |    |    |    |    |    |
| P4840P-1R-E57                                                                                    |   |   |   |   |   |   |   |   |   |   |   |
| P4840P-1R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-1R-A57                                                                                    |  |  |  |  |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

# Indexable insert drills

D4120-02 mm

2×D<sub>C</sub>

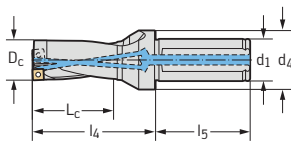
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-02 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-02-36.00F32-P46

36

72

104

60

32

42

0,96

1  
1

P484 . P-6R- ...  
P484 . C-6R- ...

D4120-02-37.00F40-P46

37

74

114

70

40

50

1,48

1  
1

D4120-02-38.00F40-P46

38

76

116

70

40

50

1,52

1  
1

D4120-02-39.00F40-P46

39

78

118

70

40

50

1,55

1  
1

D4120-02-40.00F40-P46

40

80

120

70

40

50

1,45

1  
1

D4120-02-41.00F40-P46

41

82

122

70

40

50

1,64

1  
1

D4120-02-42.00F40-P46

42

84

124

70

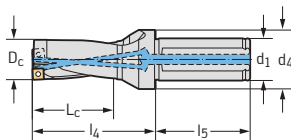
40

50

1,67

1  
1

Parallel shank with flat



D4120-02-43.00F40-P47

43

86

126

70

40

50

1,67

1  
1

P484 . P-7R- ...  
P484 . C-7R- ...

D4120-02-44.00F40-P47

44

88

128

70

40

50

1,71

1  
1

D4120-02-45.00F40-P47

45

90

130

70

40

50

1,76

1  
1

D4120-02-46.00F40-P47

46

92

132

70

40

50

1,81

1  
1

D4120-02-47.00F40-P47

47

94

134

70

40

50

1,84

1  
1

D4120-02-48.00F40-P47

48

96

136

70

40

50

1,91

1  
1

D4120-02-49.00F40-P47

49

98

138

70

40

50

1,9

1  
1

D4120-02-50.00F40-P47

50

100

140

70

40

50

2,01

1  
1

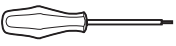
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

B1

## Indexable inserts

| Designation                                                                                      | P      |        |       |        | M     |       |        |       | K      |        | S      |
|--------------------------------------------------------------------------------------------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                                  | HC     |        |       |        | HC    |       |        |       | HC     |        | HC     |
|                                                                                                  | WKP25S | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  P4840C-1R-E67 |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-1R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-1R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-2R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-3R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-4R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-5R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-6R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-7R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840C-8R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841C-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |

HC = Coated carbide

## Indexable inserts

| Designation                                                                                      | P      |        |       |        | M     |       |        |       | K      |        | S      |
|--------------------------------------------------------------------------------------------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                                  | HC     |        |       |        | HC    |       |        |       | HC     |        | HC     |
|                                                                                                  | WKP25S | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  P4840P-1R-A57 |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-1R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-1R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-1R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-1R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |

HC = Coated carbide

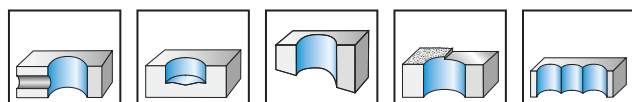
# Indexable insert drills

D4120-02 mm



2×D<sub>C</sub>

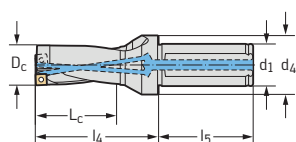
Z=1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-02 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-02-51.00F40-P48

51

102

142

70

40

50

2,09

1  
1

P484 . P-8R- ..

D4120-02-52.00F40-P48

52

104

144

70

40

50

2,04

1  
1

P484 . C-8R- ..

D4120-02-53.00F40-P48

53

106

146

70

40

50

2,21

1  
1

D4120-02-54.00F40-P48

54

108

148

70

40

50

2,28

1  
1

D4120-02-55.00F40-P48

55

110

150

70

40

50

2,35

1  
1

D4120-02-56.00F40-P48

56

112

152

70

40

50

2,42

1  
1

D4120-02-57.00F40-P48

57

114

154

70

40

50

2,5

1  
1

D4120-02-58.00F40-P48

58

116

156

70

40

50

2,57

1  
1

D4120-02-59.00F40-P48

59

118

158

70

40

50

2,65

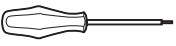
1  
1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

B1

## Indexable inserts

| Designation   | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |
|               | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |                                                                                     |
| P4840C-1R-E67 |   |   |   |   |   |   |   |   |   |   |   |
| P4841C-1R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-1R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-2R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Indexable inserts

| Designation                                                                        | P                                                                                   |                                                                                      |                                                                                       |                                                                                       |       | M                                                                                     |                                                                                       |       | K                                                                                     |                                                                                       | S                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                    | HC                                                                                  |                                                                                      |                                                                                       |                                                                                       |       | HC                                                                                    |                                                                                       |       | HC                                                                                    |                                                                                       | HC                                                                                    |
|                                                                                    | WKP25S                                                                              | WKP35S                                                                               | WSP45                                                                                 | WSP45G                                                                                | WXP40 | WSP45                                                                                 | WSP45G                                                                                | WXP40 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|  |   |   |   |   |       |   |   |       |   |   |   |
| P4840P-1R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-1R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-1R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-1R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-1R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-2R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-2R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-2R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-2R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-2R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-3R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-3R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-4R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-4R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-5R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-5R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-6R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-6R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-7R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-7R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-A57                                                                      |  |  |                                                                                       |                                                                                       |       |                                                                                       |                                                                                       |       |                                                                                       |                                                                                       |                                                                                       |

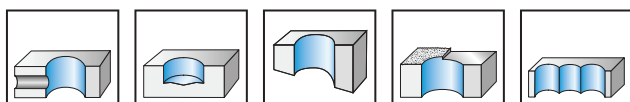
# Indexable insert drills

D4120.03 inch



3×D<sub>C</sub>

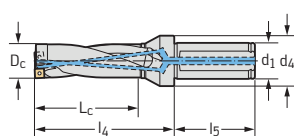
Z=1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

lbs

No. of  
indexable  
inserts

Type

D4120.03-13.49F19-P41

0,531

1,593

2,380

2,031

0,750

1,125

0,007

1

P484 . P-1R- ..

D4120.03-13.89F19-P41

0,547

1,641

2,428

2,031

0,750

1,125

0,007

1

P484 . C-1R- ..

D4120.03-14.27F19-P41

0,562

1,686

2,473

2,031

0,750

1,125

0,009

1

D4120.03-14.68F19-P41

0,578

1,734

2,521

2,031

0,750

1,125

0,010

1

D4120.03-15.09F19-P41

0,594

1,782

2,569

2,031

0,750

1,125

0,008

1

D4120.03-15.47F19-P41

0,609

1,827

2,614

2,031

0,750

1,125

0,008

1

D4120.03-15.88F19-P41

0,625

1,875

2,662

2,031

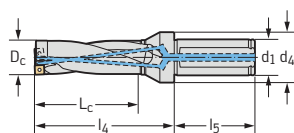
0,750

1,125

0,01

1

Parallel shank with flat



D4120.03-16.66F26-P42

0,656

1,968

2,97

2,281

1,000

1,375

0,017

1

P484 . P-2R- ..

D4120.03-17.04F26-P42

0,671

2,013

3,010

2,281

1,000

1,375

0,016

1

P484 . C-2R- ..

D4120.03-17.45F26-P42

0,687

2,061

3,060

2,281

1,000

1,375

0,016

1

D4120.03-17.86F26-P42

0,703

2,109

3,110

2,281

1,000

1,375

0,016

1

D4120.03-18.24F26-P42

0,718

2,154

3,150

2,281

1,000

1,375

0,017

1

D4120.03-19.05F26-P42

0,750

2,250

3,250

2,281

1,000

1,375

0,018

1

D4120.03-19.43F26-P42

0,765

2,295

3,300

2,281

1,000

1,375

0,017

1

D4120.03-19.84F26-P42

0,781

2,343

3,34

2,281

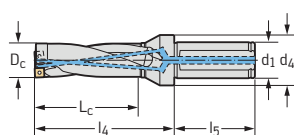
1,000

1,375

0,019

1

Parallel shank with flat



D4120.03-20.62F26-P43

0,812

2,436

3,44

2,281

1,000

1,375

0,019

1

P484 . P-3R- ..

D4120.03-21.41F26-P43

0,843

2,529

3,530

2,281

1,000

1,375

0,019

1

P484 . C-3R- ..

D4120.03-22.23F31-P43

0,875

2,625

3,760

2,281

1,250

1,625

0,028

1

D4120.03-23.01F31-P43

0,906

2,718

3,850

2,281

1,250

1,625

0,028

1

D4120.03-23.39F31-P43

0,921

2,763

3,89

2,281

1,250

1,625

0,027

1

D4120.03-23.80F31-P43

0,937

2,811

3,94

2,281

1,250

1,625

0,027

1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,53–0,62                  | 0,66–0,78                  | 0,81–0,94                  | 0,97–1,12                | 1,17–1,38                   | 1,42–1,62                   | 1,69–2,25                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,53–0,62     | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |        |       |        | M     |       |        |       | K      |        |        | S  |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|----|
|                                                                                    | HC            |        |       |        | HC    |       |        |       | HC     |        |        | HC |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |    |
|  | P4840C-1R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-1R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-1R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-2R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-2R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-2R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-3R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-3R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-3R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-4R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-4R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-4R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-5R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-5R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-5R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-6R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-6R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-6R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-7R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-7R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-7R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840C-8R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-8R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841C-8R-E57 |        |       |        |       |       |        |       |        |        |        |    |

P48 ... C = Centre insert  
P48 ... P = Outer insert

HC = Coated carbide

## Indexable inserts

| Designation                                                                        | P             |        |       |        | M     |       |        |       | K      |        |        | S  |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|----|
|                                                                                    | HC            |        |       |        | HC    |       |        |       | HC     |        |        | HC |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |    |
|  | P4840P-1R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-1R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-1R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-1R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-1R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-2R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-2R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-2R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-2R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-2R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-3R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-3R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-3R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-3R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-3R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-4R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-4R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-4R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-4R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-4R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-5R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-5R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-5R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-5R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-5R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-6R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-6R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-6R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-6R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-6R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-7R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-7R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-7R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-7R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-7R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-8R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-8R-E57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4840P-8R-E67 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-8R-A57 |        |       |        |       |       |        |       |        |        |        |    |
|                                                                                    | P4841P-8R-E57 |        |       |        |       |       |        |       |        |        |        |    |

P48 ... C = Centre insert  
P48 ... P = Outer insert

HC = Coated carbide

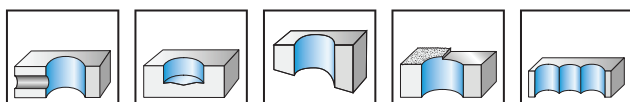
# Indexable insert drills

D4120.03 inch



3×D<sub>C</sub>

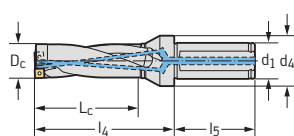
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

lbs

No. of  
indexable  
inserts

Type

D4120.03-24.59F31-P44

0,968

2,904

4,030

2,281

1,250

1,625

0,026

1

P484 . P-4R- ..

D4120.03-24.99F31-P44

0,984

2,952

4,080

2,281

1,250

1,625

0,027

1

P484 . C-4R- ..

D4120.03-25.40F31-P44

1,000

3,000

4,130

2,281

1,250

1,625

0,030

1

D4120.03-26.57F31-P44

1,046

3,138

4,27

2,281

1,250

1,625

0,028

1

D4120.03-26.97F31-P44

1,062

3,186

4,32

2,281

1,250

1,625

0,031

1

D4120.03-28.17F31-P44

1,109

3,327

4,460

2,281

1,250

1,625

0,031

1

D4120.03-28.58F31-P44

1,125

3,375

4,510

2,281

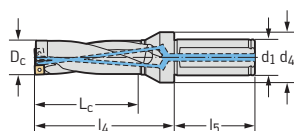
1,250

1,625

0,033

1

Parallel shank with flat



D4120.03-29.74F31-P45

1,171

3,513

4,64

2,281

1,250

1,625

0,031

1

P484 . P-5R- ..

D4120.03-30.15F31-P45

1,187

3,561

4,69

2,281

1,250

1,625

0,033

1

P484 . C-5R- ..

D4120.03-31.75F31-P45

1,250

3,750

4,880

2,281

1,250

1,625

0,037

1

D4120.03-33.32F31-P45

1,312

3,936

5,07

2,281

1,250

1,625

0,039

1

D4120.03-34.11F31-P45

1,343

4,029

5,160

2,281

1,250

1,625

0,039

1

D4120.03-34.93F31-P45

1,375

4,125

5,260

2,281

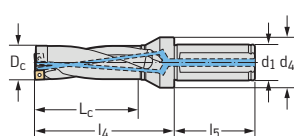
1,250

1,625

0,042

1

Parallel shank with flat



D4120.03-36.09F31-P46

1,421

4,263

5,39

2,281

1,250

1,625

0,041

1

P484 . P-6R- ..

D4120.03-36.50F38-P46

1,437

4,311

5,69

2,688

1,500

1,940

0,055

1

P484 . C-6R- ..

D4120.03-38.10F38-P46

1,500

4,500

5,880

2,688

1,500

1,940

0,06

1

D4120.03-39.67F38-P46

1,562

4,686

6,07

2,688

1,500

1,940

0,062

1

D4120.03-41.28F38-P46

1,625

4,875

6,260

2,688

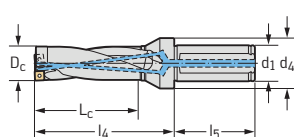
1,500

1,940

0,069

1

Parallel shank with flat



D4120.03-42.85F38-P47

1,687

5,061

6,44

2,688

1,500

1,940

0,066

1

P484 . P-7R- ..

D4120.03-44.45F38-P47

1,750

5,250

6,630

2,688

1,500

1,940

0,070

1

P484 . C-7R- ..

D4120.03-46.02F38-P47

1,812

5,436

6,82

2,688

1,500

1,940

0,074

1

D4120.03-47.63F38-P47

1,875

5,625

7,010

2,688

1,500

1,940

0,079

1

D4120.03-49.20F38-P47

1,937

5,811

7,19

2,688

1,500

1,940

0,084

1

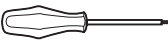
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,53–0,62                  | 0,66–0,78                  | 0,81–0,94                  | 0,97–1,12                | 1,17–1,38                   | 1,42–1,62                   | 1,69–2,25                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,53–0,62     | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|                                                                                                  | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|  P4840C-1R-E67 |    |    |    |    |    |    |    |    |    |    |    |
| P4841C-1R-A57                                                                                    |   |   |   |   |   |   |   |   |   |   |   |
| P4841C-1R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-2R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |

P48 ... C = Centre insert  
P48 ... P = Outer insert

HC = Coated carbide

## Indexable inserts

|  | Designation   | P                                                                                   |                                                                                      |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                    |               | HC                                                                                  |                                                                                      |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |
|                                                                                    |               | WKP25S                                                                              | WKP35S                                                                               | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|                                                                                    | P4840P-1R-A57 |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4840P-1R-E57 |   |   |   |   |   |   |   |   |   |   |   |
|                                                                                    | P4840P-1R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-1R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-1R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-2R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-3R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-4R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-5R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-6R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841P-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-7R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840P-7R-E57 |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

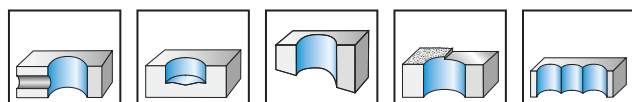
# Indexable insert drills

D4120.03 inch



3×D<sub>C</sub>

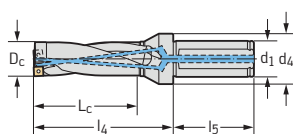
Z=1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

 lbs

No. of  
indexable  
inserts

Type

D4120.03-50.80F51-P48

2,000

6,000

7,62

3,250

2,000

2,440

0,125

1  
1

P484 . P-8R- ...  
P484 . C-8R- ...

D4120.03-52.37F51-P48

2,062

6,186

7,810

3,250

2,000

2,440

0,131

1  
1

D4120.03-53.98F51-P48

2,125

6,375

8,000

3,250

2,000

2,440

0,137

1  
1

D4120.03-55.55F51-P48

2,187

6,561

8,180

3,250

2,000

2,440

0,144

1  
1

D4120.03-57.15F51-P48

2,250

6,750

8,37

3,250

2,000

2,440

0,152

1  
1

Bodies and assembly parts are included in the scope of delivery.

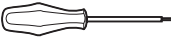
B1



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,53–0,62                  | 0,66–0,78                  | 0,81–0,94                  | 0,97–1,12                | 1,17–1,38                   | 1,42–1,62                   | 1,69–2,25                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,53–0,62     | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|                                                                                                  | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|  P4840C-1R-E67 |    |    |    |    |    |    |    |    |    |    |    |
| P4841C-1R-A57                                                                                    |   |   |   |   |   |   |   |   |   |   |   |
| P4841C-1R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-2R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |

P48 ... C = Centre insert  
P48 ... P = Outer insert

HC = Coated carbide

## Indexable inserts

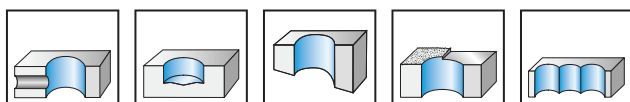
|  | Designation   | P                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       |                                                                                       | S  |
|------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|
|                                                                                    |               | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC |
|                                                                                    |               | WKP25S                                                                                | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |    |
|                                                                                    | P4840P-1R-A57 |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4840P-1R-E57 |   |   |   |   |   |   |   |   |   |   |   |    |
|                                                                                    | P4840P-1R-E67 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-1R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-1R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-2R-E67 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-2R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-3R-E67 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-4R-E67 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-5R-E67 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-6R-E67 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4841P-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |    |
|                                                                                    | P4840P-7R-A57 |  |  |  |  |  |  |  |  |  |  |  |    |

# Indexable insert drills

D4120-03 mm

3×D<sub>C</sub>

Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-03 | ● | ● | ● | ● | ● |   |   |

| Tool | Designation           | D <sub>C</sub><br>mm | L <sub>C</sub><br>mm | l <sub>4</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>mm | d <sub>4</sub><br>mm | kg   | No. of<br>indexable<br>inserts | Type                                 |
|------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|--------------------------------|--------------------------------------|
|      | D4120-03-13.50F20-P41 | 13,5                 | 40,5                 | 60,5                 | 50                   | 20                   | 25                   | 0,16 | 1<br>1                         | P484 . P-1R- ...<br>P484 . C-1R- ... |
|      | D4120-03-14.00F20-P41 | 14                   | 42                   | 62                   | 50                   | 20                   | 25                   | 0,17 | 1<br>1                         |                                      |
|      | D4120-03-14.50F20-P41 | 14,5                 | 43,5                 | 63,5                 | 50                   | 20                   | 25                   | 0,24 | 1<br>1                         |                                      |
|      | D4120-03-15.00F20-P41 | 15                   | 45                   | 65                   | 50                   | 20                   | 25                   | 0,2  | 1<br>1                         |                                      |
|      | D4120-03-15.50F20-P41 | 15,5                 | 46,5                 | 66,5                 | 50                   | 20                   | 25                   | 0,25 | 1<br>1                         |                                      |
|      | D4120-03-16.00F25-P41 | 16                   | 48                   | 73                   | 56                   | 25                   | 35                   | 0,38 | 1<br>1                         |                                      |
|      | D4120-03-16.50F25-P42 | 16,5                 | 49,5                 | 75                   | 56                   | 25                   | 35                   | 0,42 | 1<br>1                         | P484 . P-2R- ...<br>P484 . C-2R- ... |
|      | D4120-03-17.00F25-P42 | 17                   | 51                   | 76                   | 56                   | 25                   | 35                   | 0,35 | 1<br>1                         |                                      |
|      | D4120-03-17.50F25-P42 | 17,5                 | 52,5                 | 77,5                 | 56                   | 25                   | 35                   | 0,43 | 1<br>1                         |                                      |
|      | D4120-03-18.00F25-P42 | 18                   | 54                   | 79                   | 56                   | 25                   | 35                   | 0,44 | 1<br>1                         |                                      |
|      | D4120-03-18.50F25-P42 | 18,5                 | 55,5                 | 80,5                 | 56                   | 25                   | 35                   | 0,39 | 1<br>1                         |                                      |
|      | D4120-03-19.00F25-P42 | 19                   | 57                   | 82                   | 56                   | 25                   | 35                   | 0,45 | 1<br>1                         |                                      |
|      | D4120-03-19.50F25-P42 | 19,5                 | 58,5                 | 84                   | 56                   | 25                   | 35                   | 0,46 | 1<br>1                         |                                      |
|      | D4120-03-20.00F25-P42 | 20                   | 60                   | 85                   | 56                   | 25                   | 35                   | 0,46 | 1<br>1                         |                                      |
|      | D4120-03-20.50F25-P43 | 20,5                 | 61,5                 | 87                   | 56                   | 25                   | 35                   | 0,45 | 1<br>1                         | P484 . P-3R- ...<br>P484 . C-3R- ... |
|      | D4120-03-21.00F25-P43 | 21                   | 63                   | 88                   | 56                   | 25                   | 35                   | 0,39 | 1<br>1                         |                                      |
|      | D4120-03-21.50F25-P43 | 21,5                 | 64,5                 | 90                   | 56                   | 25                   | 35                   | 0,48 | 1<br>1                         |                                      |
|      | D4120-03-22.00F25-P43 | 22                   | 66                   | 91                   | 56                   | 25                   | 35                   | 0,48 | 1<br>1                         |                                      |
|      | D4120-03-22.50F25-P43 | 22,5                 | 67,5                 | 93                   | 56                   | 25                   | 35                   | 0,49 | 1<br>1                         |                                      |
|      | D4120-03-23.00F25-P43 | 23                   | 69                   | 94                   | 56                   | 25                   | 35                   | 0,52 | 1<br>1                         |                                      |
|      | D4120-03-23.50F25-P43 | 23,5                 | 70,5                 | 96                   | 56                   | 25                   | 35                   | 0,51 | 1<br>1                         |                                      |
|      | D4120-03-24.00F25-P43 | 24                   | 72                   | 97                   | 56                   | 25                   | 35                   | 0,52 | 1<br>1                         |                                      |

Bodies and assembly parts are included in the scope of delivery.

| D <sub>c</sub> [mm]                 | 13,5–16 | 16,5–20 | 20,5–24 | 24,5–29 | 29,5–35 | 36–42   | 43–59   |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Clamping screw for indexable insert | FS2120  | FS2111  | FS1454  | FS1457  | FS2080  | FS1453  | FS1495  |
|                                     | (T6IP)  | (T7IP)  | (T8IP)  | (T9IP)  | (T15IP) | (T15IP) | (T20IP) |
| Tightening torque                   | 0.4 Nm  | 0.9 Nm  | 1.2 Nm  | 2 Nm    | 2.5 Nm  | 3.5 Nm  | 5 Nm    |

| D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
| Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
| Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
| Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
| Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

| Designation   | P      |        |       |        |       | M     |        |       | K      |        | S      |
|---------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|               | HC     |        |       |        |       | HC    |        |       | HC     | HC     |        |
|               | WKP25S | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
| P4840C-1R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-1R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-1R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-2R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-2R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-2R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-3R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-3R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-3R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-4R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-4R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-4R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-5R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-5R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-5R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-6R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-6R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-6R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-7R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-7R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-7R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4840C-8R-E67 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-8R-A57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |
| P4841C-8R-E57 |        | ✖      |       | ✖      | ✖     |       | ✖      | ✖     |        | ✖      | ✖      |

[illegible]

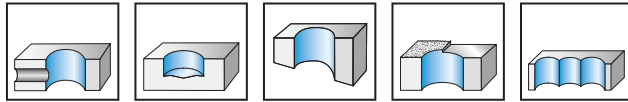
### Boring tools with indexable inserts

# Indexable insert drills

D4120-03 mm

3×D<sub>C</sub>

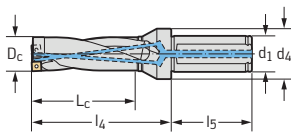
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-03-24.50F25-P44

24,5

73,5

99

56

25

35

0,52

1  
1

P484 . P-4R- ..

D4120-03-25.00F25-P44

25

75

100

56

25

35

0,43

1  
1

P484 . C-4R- ..

D4120-03-25.50F32-P44

25,5

76,5

109

60

32

42

0,83

1  
1

D4120-03-26.00F32-P44

26

78

110

60

32

42

0,84

1  
1

D4120-03-26.50F32-P44

26,5

79,5

112

60

32

42

0,84

1  
1

D4120-03-27.00F32-P44

27

81

113

60

32

42

0,85

1  
1

D4120-03-27.50F32-P44

27,5

82,5

115

60

32

42

0,87

1  
1

D4120-03-28.00F32-P44

28

84

116

60

32

42

0,89

1  
1

D4120-03-28.50F32-P44

28,5

85,5

118

60

32

42

0,91

1  
1

D4120-03-29.00F32-P44

29

87

119

60

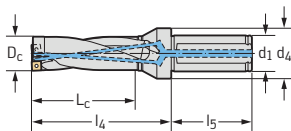
32

42

0,92

1  
1

Parallel shank with flat



D4120-03-29.50F32-P45

29,5

88,5

121

60

32

42

0,93

1  
1

P484 . P-5R- ..

D4120-03-30.00F32-P45

30

90

122

60

32

42

0,94

1  
1

P484 . C-5R- ..

D4120-03-31.00F32-P45

31

93

125

60

32

42

0,95

1  
1

D4120-03-32.00F32-P45

32

96

128

60

32

42

1

1  
1

D4120-03-33.00F32-P45

33

99

131

60

32

42

1,03

1  
1

D4120-03-34.00F32-P45

34

102

134

60

32

42

1,07

1  
1

D4120-03-35.00F32-P45

35

105

137

60

32

42

1,12

1  
1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |        |       |        | M     |       |        |       | K      |        | S      |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                    | HC            |        |       |        | HC    |       |        |       | HC     |        | HC     |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  | P4840C-1R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-1R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-1R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-2R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-3R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-4R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-5R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-6R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-7R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-8R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-8R-E57 |        |       |        |       |       |        |       |        |        |        |

HC = Coated carbide

## Indexable inserts

| Designation                                                                        | P             |        |       |        | M     |       |        |       | K      |        | S      |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                    | HC            |        |       |        | HC    |       |        |       | HC     |        | HC     |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  | P4840P-1R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-1R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-1R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-1R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-1R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-2R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-3R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-4R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-5R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-6R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-7R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-8R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-8R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-8R-E57 |        |       |        |       |       |        |       |        |        |        |

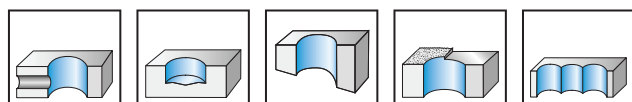
HC = Coated carbide

# Indexable insert drills

D4120-03 mm

3×D<sub>C</sub>

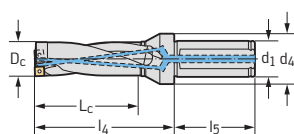
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-03-36.00F32-P46

36

108

140

60

32

42

1,02

1  
1

P484 . P-6R- ...  
P484 . C-6R- ...

D4120-03-37.00F40-P46

37

111

151

70

40

50

1,68

1  
1

D4120-03-38.00F40-P46

38

114

154

70

40

50

1,17

1  
1

D4120-03-39.00F40-P46

39

117

157

70

40

50

1,76

1  
1

D4120-03-40.00F40-P46

40

120

160

70

40

50

1,82

1  
1

D4120-03-41.00F40-P46

41

123

163

70

40

50

1,88

1  
1

D4120-03-42.00F40-P46

42

126

166

70

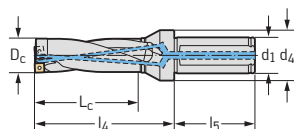
40

50

1,94

1  
1

Parallel shank with flat



D4120-03-43.00F40-P47

43

129

169

70

40

50

1,98

1  
1

P484 . P-7R- ...  
P484 . C-7R- ...

D4120-03-44.00F40-P47

44

132

172

70

40

50

2,03

1  
1

D4120-03-45.00F40-P47

45

135

175

70

40

50

2,11

1  
1

D4120-03-46.00F40-P47

46

138

178

70

40

50

2,17

1  
1

D4120-03-47.00F40-P47

47

141

181

70

40

50

2,25

1  
1

D4120-03-48.00F40-P47

48

144

184

70

40

50

2,34

1  
1

D4120-03-49.00F40-P47

49

147

187

70

40

50

2,41

1  
1

D4120-03-50.00F40-P47

50

150

190

70

40

50

2,5

1  
1

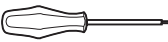
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |        |       |        | M     |       |        |       | K      |        | S      |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                    | HC            |        |       |        | HC    |       |        |       | HC     |        | HC     |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  | P4840C-1R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-1R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-1R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-2R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-3R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-4R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-5R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-6R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-7R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-8R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-8R-E57 |        |       |        |       |       |        |       |        |        |        |

HC = Coated carbide

## Indexable inserts

| Designation                                                                        | P             |        |       |        | M     |       |        |       | K      |        | S      |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                    | HC            |        |       |        | HC    |       |        |       | HC     |        | HC     |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  | P4840P-1R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-1R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-1R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-1R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-1R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-2R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-3R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-4R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-5R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-6R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-7R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-8R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840P-8R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841P-8R-E57 |        |       |        |       |       |        |       |        |        |        |

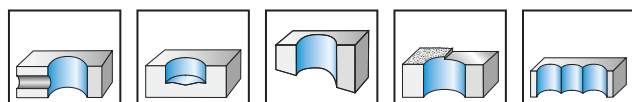
HC = Coated carbide

# Indexable insert drills

D4120-03 mm

3×D<sub>C</sub>

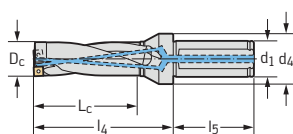
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-03 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-03-51.00F40-P48

51

153

193

70

40

50

2,53

1  
1

P484 . P-8R- ...

D4120-03-52.00F40-P48

52

156

196

70

40

50

2,6

1  
1

P484 . C-8R- ...

D4120-03-53.00F40-P48

53

159

199

70

40

50

2,7

1  
1

D4120-03-54.00F40-P48

54

162

202

70

40

50

2,8

1  
1

D4120-03-55.00F40-P48

55

165

205

70

40

50

2,9

1  
1

D4120-03-56.00F40-P48

56

168

208

70

40

50

3

1  
1

D4120-03-57.00F40-P48

57

171

211

70

40

50

3,12

1  
1

D4120-03-58.00F40-P48

58

174

214

70

40

50

3,23

1  
1

D4120-03-59.00F40-P48

59

177

217

70

40

50

3,36

1  
1

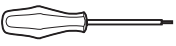
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 13,5–16                    | 16,5–20                    | 20,5–24                    | 24,5–29                  | 29,5–35                     | 36–42                       | 43–59                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2120<br>(T6IP)<br>0,4 Nm | FS2111<br>(T7IP)<br>0,9 Nm | FS1454<br>(T8IP)<br>1,2 Nm | FS1457<br>(T9IP)<br>2 Nm | FS2080<br>(T15IP)<br>2,5 Nm | FS1453<br>(T15IP)<br>3,5 Nm | FS1495<br>(T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 13,5–16       | 16,5–20       | 20,5–24       | 24,5–29       | 29,5–42        | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

B1

## Indexable inserts

| Designation                                                                                      | P                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | WKP25S                                                                              | HC                                                                                  |                                                                                     |                                                                                     | WXP40                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|                                                                                                  |                                                                                     | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  P4840C-1R-E67 |    |    |    |    |    |    |    |    |    |    |
| P4841C-1R-A57                                                                                    |   |   |   |   |   |   |   |   |   |   |
| P4841C-1R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-2R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Indexable inserts

|  | Designation   | P                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S      |
|------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|
|                                                                                    |               | HC                                                                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC     |
|                                                                                    |               | WKP25S                                                                               | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G |
|                                                                                    | P4840P-1R-A57 |    |    |    |    |    |    |    |    |    |    |        |
|                                                                                    | P4840P-1R-E57 |   |   |   |   |   |   |   |   |   |   |        |
|                                                                                    | P4840P-1R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-1R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-1R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-2R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-2R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-2R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-2R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-2R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-3R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-3R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-3R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-3R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-3R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-4R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-4R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-4R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-4R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-4R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-5R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-5R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-5R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-5R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-5R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-6R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-6R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-6R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-6R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-6R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-7R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-7R-E57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4840P-7R-E67 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-7R-A57 |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                    | P4841P-7R-E57 |  |  |  |  |  |  |  |                                                                                       |                                                                                       |                                                                                       |        |

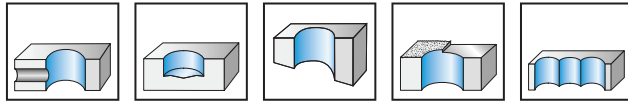
# Indexable insert drills

D4120.04 inch



4×D<sub>C</sub>

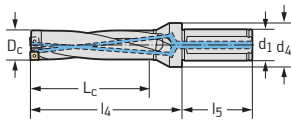
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.04 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

lbs

No. of  
indexable  
inserts

Type

D4120.04-16.66F26-P42

0,656

2,624

3,62

2,281

1,000

1,375

0,016

1

P484 . P-2R- ...  
P484 . C-2R- ...

D4120.04-17.04F26-P42

0,671

2,684

3,680

2,281

1,000

1,375

0,017

1

D4120.04-17.45F26-P42

0,687

2,748

3,750

2,281

1,000

1,375

0,017

1

D4120.04-17.86F26-P42

0,703

2,812

3,810

2,281

1,000

1,375

0,017

1

D4120.04-18.24F26-P42

0,718

2,872

3,87

2,281

1,000

1,375

0,017

1

D4120.04-19.05F26-P42

0,750

3,000

4,000

2,281

1,000

1,375

0,018

1

D4120.04-19.43F26-P42

0,765

3,060

4,060

2,281

1,000

1,375

0,018

1

D4120.04-19.84F26-P42

0,781

3,124

4,12

2,281

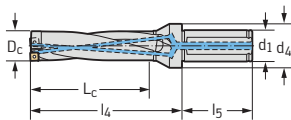
1,000

1,375

0,018

1

Parallel shank with flat



D4120.04-20.62F26-P43

0,812

3,248

4,250

2,281

1,000

1,375

0,019

1

P484 . P-3R- ...  
P484 . C-3R- ...

D4120.04-21.41F26-P43

0,843

3,372

4,37

2,281

1,000

1,375

0,019

1

D4120.04-22.23F31-P43

0,875

3,500

4,630

2,281

1,250

1,625

0,030

1

D4120.04-23.01F31-P43

0,906

3,624

4,750

2,281

1,250

1,625

0,029

1

D4120.04-23.39F31-P43

0,921

3,684

4,810

2,281

1,250

1,625

0,027

1

D4120.04-23.80F31-P43

0,937

3,748

4,880

2,281

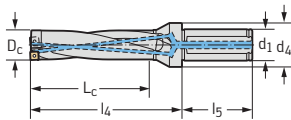
1,250

1,625

0,031

1

Parallel shank with flat



D4120.04-24.59F31-P44

0,968

3,872

5,000

2,281

1,250

1,625

0,028

1

P484 . P-4R- ...  
P484 . C-4R- ...

D4120.04-24.99F31-P44

0,984

3,936

5,07

2,281

1,250

1,625

0,032

1

D4120.04-25.40F31-P44

1,000

4,000

5,130

2,281

1,250

1,625

0,032

1

D4120.04-26.57F31-P44

1,046

4,184

5,310

2,281

1,250

1,625

0,031

1

D4120.04-26.97F31-P44

1,062

4,248

5,380

2,281

1,250

1,625

0,034

1

D4120.04-28.17F31-P44

1,109

4,436

5,57

2,281

1,250

1,625

0,034

1

D4120.04-28.58F31-P44

1,125

4,500

5,630

2,281

1,250

1,625

0,035

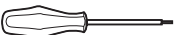
1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,66–0,78               | 0,81–0,94               | 0,97–1,12             | 1,17–1,38                | 1,42–1,62                | 1,69–2,25              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

B1

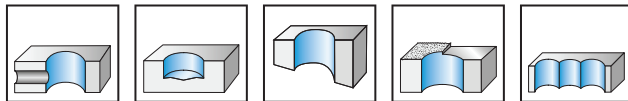
# Indexable insert drills

D4120.04 inch



4×D<sub>C</sub>

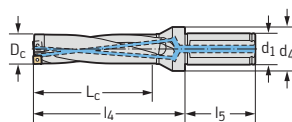
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.04 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

lbs

No. of  
indexable  
inserts

Type

D4120.04-29.74F31-P45

1,171

4,684

5,810

2,281

1,250

1,625

0,036

1

P484 . P-5R- ..

D4120.04-30.15F31-P45

1,187

4,748

5,880

2,281

1,250

1,625

0,039

1

P484 . C-5R- ..

D4120.04-31.75F31-P45

1,250

5,000

6,130

2,281

1,250

1,625

0,041

1

D4120.04-33.32F31-P45

1,312

5,248

6,380

2,281

1,250

1,625

0,043

1

D4120.04-34.11F31-P45

1,343

5,372

6,496

2,281

1,250

1,625

0,042

1

D4120.04-34.93F31-P45

1,375

5,500

6,630

2,281

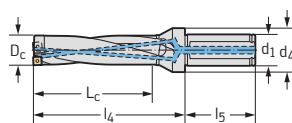
1,250

1,625

0,048

1

Parallel shank with flat



D4120.04-36.09F31-P46

1,421

5,684

6,810

2,281

1,250

1,625

0,043

1

P484 . P-6R- ..

D4120.04-36.50F38-P46

1,437

5,748

7,130

2,688

1,500

1,940

0,059

1

P484 . C-6R- ..

D4120.04-38.10F38-P46

1,500

6,000

7,380

2,688

1,500

1,940

0,066

1

D4120.04-39.67F38-P46

1,562

6,248

7,630

2,688

1,500

1,940

0,07

1

D4120.04-41.28F38-P46

1,625

6,500

7,880

2,688

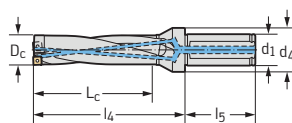
1,500

1,940

0,072

1

Parallel shank with flat



D4120.04-42.85F38-P47

1,687

6,748

8,128

2,688

1,500

1,940

0,076

1

P484 . P-7R- ..

D4120.04-44.45F38-P47

1,750

7,000

8,380

2,688

1,500

1,940

0,081

1

P484 . C-7R- ..

D4120.04-46.02F38-P47

1,812

7,248

8,628

2,688

1,500

1,940

0,087

1

D4120.04-47.63F38-P47

1,875

7,500

8,880

2,688

1,500

1,940

0,093

1

D4120.04-49.20F38-P47

1,937

7,748

9,128

2,688

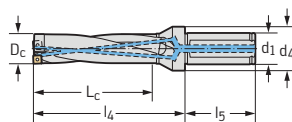
1,500

1,940

0,1

1

Parallel shank with flat



D4120.04-50.80F51-P48

2,000

8,000

9,62

3,250

2,000

2,440

0,145

1

P484 . P-8R- ..

D4120.04-52.37F51-P48

2,062

8,248

9,868

3,250

2,000

2,440

0,153

1

P484 . C-8R- ..

D4120.04-53.98F51-P48

2,125

8,500

10,12

3,250

2,000

2,440

0,168

1

D4120.04-55.55F51-P48

2,187

8,748

10,368

3,250

2,000

2,440

0,171

1

D4120.04-57.15F51-P48

2,250

9,000

10,62

3,250

2,000

2,440

0,18

1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,66–0,78               | 0,81–0,94               | 0,97–1,12             | 1,17–1,38                | 1,42–1,62                | 1,69–2,25              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

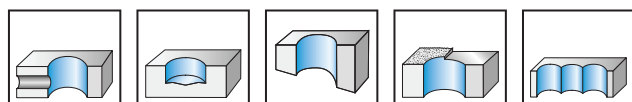
B1

# Indexable insert drills

D4120-04 mm

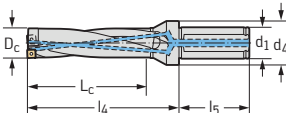
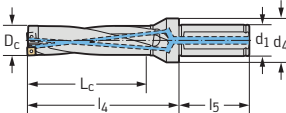
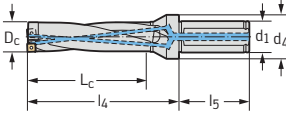
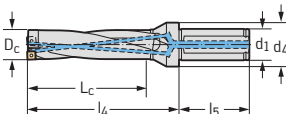
4×D<sub>C</sub>

Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-04 | ● | ● | ● | ● | ● |   |   |

## Tool

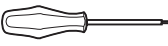
|                                                                                                                 | Designation           | D <sub>C</sub><br>mm | L <sub>C</sub><br>mm | l <sub>4</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>mm | d <sub>4</sub><br>mm | kg   | No. of<br>indexable<br>inserts | Type                                 |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|--------------------------------|--------------------------------------|
| Parallel shank with flat<br>   | D4120-04-17.00F25-P42 | 17                   | 68                   | 93                   | 56                   | 25                   | 35                   | 0,45 | 1<br>1                         | P484 . P-2R- ...<br>P484 . C-2R- ... |
|                                                                                                                 | D4120-04-18.00F25-P42 | 18                   | 72                   | 97                   | 56                   | 25                   | 35                   | 0,46 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-19.00F25-P42 | 19                   | 76                   | 101                  | 56                   | 25                   | 35                   | 0,47 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-20.00F25-P42 | 20                   | 80                   | 105                  | 56                   | 25                   | 35                   | 0,49 | 1<br>1                         |                                      |
| Parallel shank with flat<br>  | D4120-04-21.00F25-P43 | 21                   | 84                   | 109                  | 56                   | 25                   | 35                   | 0,49 | 1<br>1                         | P484 . P-3R- ...<br>P484 . C-3R- ... |
|                                                                                                                 | D4120-04-22.00F25-P43 | 22                   | 88                   | 113                  | 56                   | 25                   | 35                   | 0,53 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-23.00F25-P43 | 23                   | 92                   | 117                  | 56                   | 25                   | 35                   | 0,55 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-24.00F25-P43 | 24                   | 96                   | 121                  | 56                   | 25                   | 35                   | 0,57 | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-04-25.00F25-P44 | 25                   | 100                  | 125                  | 56                   | 25                   | 35                   | 0,58 | 1<br>1                         | P484 . P-4R- ...<br>P484 . C-4R- ... |
|                                                                                                                 | D4120-04-26.00F32-P44 | 26                   | 104                  | 136                  | 60                   | 32                   | 42                   | 0,89 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-27.00F32-P44 | 27                   | 108                  | 140                  | 60                   | 32                   | 42                   | 0,93 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-28.00F32-P44 | 28                   | 112                  | 144                  | 60                   | 32                   | 42                   | 0,96 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-29.00F32-P44 | 29                   | 116                  | 148                  | 60                   | 32                   | 42                   | 1    | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-04-30.00F32-P45 | 30                   | 120                  | 152                  | 60                   | 32                   | 42                   | 1,02 | 1<br>1                         | P484 . P-5R- ...<br>P484 . C-5R- ... |
|                                                                                                                 | D4120-04-31.00F32-P45 | 31                   | 124                  | 156                  | 60                   | 32                   | 42                   | 1,07 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-32.00F32-P45 | 32                   | 128                  | 160                  | 60                   | 32                   | 42                   | 1,1  | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-33.00F32-P45 | 33                   | 132                  | 164                  | 60                   | 32                   | 42                   | 1,17 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-34.00F32-P45 | 34                   | 136                  | 168                  | 60                   | 32                   | 42                   | 1,18 | 1<br>1                         |                                      |
|                                                                                                                 | D4120-04-35.00F32-P45 | 35                   | 140                  | 172                  | 60                   | 32                   | 42                   | 1,28 | 1<br>1                         |                                      |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

| D <sub>c</sub> [mm]                                                                                                                        | 17–20                   | 21–24                   | 25–29                 | 30–35                    | 36–42                    | 43–59                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

| D <sub>c</sub> [mm]                                                                                            | 17–20         | 21–24         | 25–29         | 30–42          | 43–59          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|----------------|----------------|
|  Torque screwdriver, analogue | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                    | HC            |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |
|                                                                                    | WKP255        | WKP355                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP255                                                                              | WKP355                                                                              | WSP45G                                                                              |
|  | P4840C-2R-E67 |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4841C-2R-A57 |   |   |   |   |   |   |   |   |   |   |
|                                                                                    | P4841C-2R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Indexable inserts

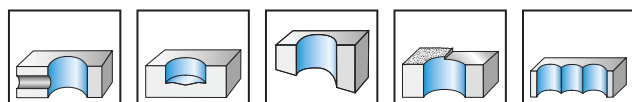
| Designation                                                                                      | P                                                                                   |                                                                                      |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                  |                                                                                      |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |
|                                                                                                  | WKP25S                                                                              | WKP35S                                                                               | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|  P4840P-2R-A57 |    |    |    |    |    |    |    |    |    |    |    |
| P4840P-2R-E57                                                                                    |   |   |   |   |   |   |   |   |   |   |   |
| P4840P-2R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-2R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-8R-E57                                                                                    |  |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

# Indexable insert drills

D4120-04 mm

4×D<sub>C</sub>

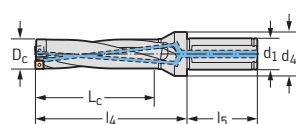
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-04 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-04-36.00F32-P46

36

144

176

60

32

42

1,26

1  
1

P484 . P-6R- ..

D4120-04-37.00F40-P46

37

148

188

70

40

50

1,82

1  
1

P484 . C-6R- ..

D4120-04-38.00F40-P46

38

152

192

70

40

50

1,19

1  
1

D4120-04-39.00F40-P46

39

156

196

70

40

50

1,96

1  
1

D4120-04-40.00F40-P46

40

160

200

70

40

50

2,04

1  
1

D4120-04-41.00F40-P46

41

164

204

70

40

50

2,21

1  
1

D4120-04-42.00F40-P46

42

168

208

70

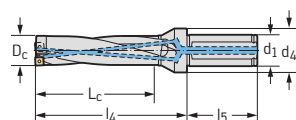
40

50

2,2

1  
1

Parallel shank with flat



D4120-04-43.00F40-P47

43

172

212

70

40

50

2,23

1  
1

P484 . P-7R- ..

D4120-04-44.00F40-P47

44

176

216

70

40

50

2,32

1  
1

P484 . C-7R- ..

D4120-04-45.00F40-P47

45

180

220

70

40

50

2,4

1  
1

D4120-04-46.00F40-P47

46

184

224

70

40

50

2,5

1  
1

D4120-04-47.00F40-P47

47

188

228

70

40

50

2,62

1  
1

D4120-04-48.00F40-P47

48

192

232

70

40

50

2,7

1  
1

D4120-04-49.00F40-P47

49

196

236

70

40

50

2,84

1  
1

D4120-04-50.00F40-P47

50

200

240

70

40

50

2,95

1  
1

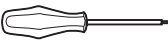
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

| D <sub>c</sub> [mm]                                                                                                                        | 17–20                   | 21–24                   | 25–29                 | 30–35                    | 36–42                    | 43–59                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

| D <sub>c</sub> [mm]                                                                                            | 17–20         | 21–24         | 25–29         | 30–42          | 43–59          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|----------------|----------------|
|  Torque screwdriver, analogue | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |
|                                                                                                  | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               |
|  P4840C-2R-E67 |    |    |    |    |    |    |    |    |    |
| P4841C-2R-A57                                                                                    |   |   |   |   |   |   |   |   |   |
| P4841C-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4840C-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4840C-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4840C-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4840C-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4840C-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4840C-8R-E67                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  |
| P4841C-8R-E57                                                                                    |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Indexable inserts

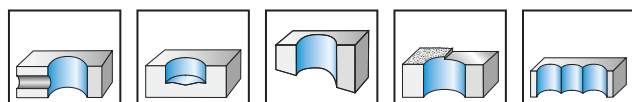
| Designation                                                                                      | P                                                                                   |                                                                                      |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                  |                                                                                      |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |
|                                                                                                  | WKP25S                                                                              | WKP35S                                                                               | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|  P4840P-2R-A57 |    |    |    |    |    |    |    |    |    |    |    |
| P4840P-2R-E57                                                                                    |   |   |   |   |   |   |   |   |   |   |   |
| P4840P-2R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-2R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  | <                                                                                     |                                                                                       |

# Indexable insert drills

D4120-04 mm

4×D<sub>C</sub>

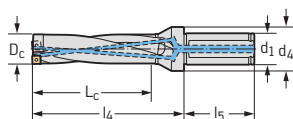
Z = 1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120-04 | ● | ● | ● | ● | ● |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-04-51.00F40-P48

51

204

244

70

40

50

2,98

1  
1

P484 . P-8R- ..

D4120-04-52.00F40-P48

52

208

248

70

40

50

3,11

1  
1

P484 . C-8R- ..

D4120-04-53.00F40-P48

53

212

252

70

40

50

3,25

1  
1

D4120-04-54.00F40-P48

54

216

256

70

40

50

3,32

1  
1

D4120-04-55.00F40-P48

55

220

260

70

40

50

3,44

1  
1

D4120-04-56.00F40-P48

56

224

264

70

40

50

3,6

1  
1

D4120-04-57.00F40-P48

57

228

268

70

40

50

3,8

1  
1

D4120-04-58.00F40-P48

58

232

272

70

40

50

3,97

1  
1

D4120-04-59.00F40-P48

59

236

276

70

40

50

4,09

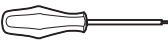
1  
1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

| D <sub>c</sub> [mm]                                                                                                                        | 17–20                   | 21–24                   | 25–29                 | 30–35                    | 36–42                    | 43–59                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

| D <sub>c</sub> [mm]                                                                                            | 17–20         | 21–24         | 25–29         | 30–42          | 43–59          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|----------------|----------------|
|  Torque screwdriver, analogue | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                    | WKP25S        | HC                                                                                  |                                                                                     |                                                                                     | WSP40                                                                               | HC                                                                                  |                                                                                     | WXP40                                                                               | HC                                                                                  |                                                                                     | HC                                                                                  |
|                                                                                    |               | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              |                                                                                     | WSP45G                                                                              | WXP40                                                                               |                                                                                     | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|  | P4840C-2R-E67 |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4841C-2R-A57 |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4841C-2R-E57 |   |   |   |   |   |   |   |   |   |   |
|                                                                                    | P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Indexable inserts

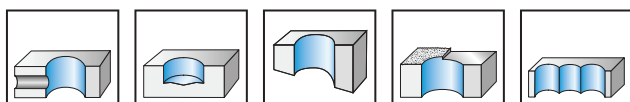
| Designation                                                                                      | P                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       | K                                                                                     |                                                                                       | S                                                                                     |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |
|                                                                                                  | WKP25S                                                                                | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WSP45                                                                                 | WSP45G                                                                                | WXP40                                                                                 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|  P4840P-2R-A57 |    |    |    |    |    |    |    |    |    |    |    |
| P4840P-2R-E57                                                                                    |   |   |   |   |   |   |   |   |   |   |   |
| P4840P-2R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-2R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-2R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-3R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-3R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-3R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-4R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-4R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-4R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-5R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-5R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-5R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-6R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-6R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-6R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-7R-E67                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-7R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4841P-7R-E57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-8R-A57                                                                                    |  |  |  |  |  |  |  |  |  |  |  |
| P4840P-8R-E57                                                                                    |  |  |  |  |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

# Indexable insert drills

D4120.05 inch


5×D<sub>C</sub>

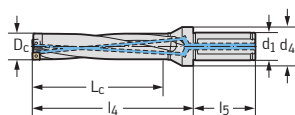
Z = 1



|          | P  | M | K  | N  | S | H | O |
|----------|----|---|----|----|---|---|---|
| D4120.05 | ●● |   | ●● | ●● |   |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
inch

L<sub>C</sub>  
inch

l<sub>4</sub>  
inch

l<sub>5</sub>  
inch

d<sub>1</sub>  
inch

d<sub>4</sub>  
inch

lbs

No. of  
indexable  
inserts

Type

D4120.05-16.66F26-P42

0,656

3,280

4,280

2,281

1,000

1,375

0,018

1

P484 . P-2R- ...  
P484 . C-2R- ...

D4120.05-17.04F26-P42

0,671

3,355

4,355

2,281

1,000

1,375

0,019

1

D4120.05-17.45F26-P42

0,687

3,435

4,435

2,281

1,000

1,375

0,019

1

D4120.05-17.86F26-P42

0,703

3,515

4,515

2,281

1,000

1,375

0,019

1

D4120.05-18.24F26-P42

0,718

3,590

4,59

2,281

1,000

1,375

0,020

1

D4120.05-19.05F26-P42

0,750

3,750

4,750

2,281

1,000

1,375

0,021

1

D4120.05-19.43F26-P42

0,765

3,825

4,825

2,281

1,000

1,375

0,020

1

D4120.05-19.84F26-P42

0,781

3,905

4,905

2,281

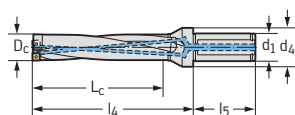
1,000

1,375

0,02

1

Parallel shank with flat



D4120.05-20.62F26-P43

0,812

4,06

5,060

2,281

1,000

1,375

0,021

1

P484 . P-3R- ...  
P484 . C-3R- ...

D4120.05-21.41F26-P43

0,843

4,215

5,215

2,281

1,000

1,375

0,022

1

D4120.05-22.23F31-P43

0,875

4,375

5,505

2,281

1,250

1,625

0,031

1

D4120.05-23.01F31-P43

0,906

4,530

5,660

2,281

1,250

1,625

0,032

1

D4120.05-23.39F31-P43

0,921

4,605

5,735

2,281

1,250

1,625

0,032

1

D4120.05-23.80F31-P43

0,937

4,685

5,815

2,281

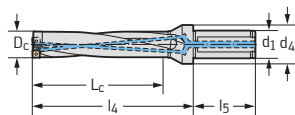
1,250

1,625

0,033

1

Parallel shank with flat



D4120.05-24.59F31-P44

0,968

4,840

5,97

2,281

1,250

1,625

0,033

1

P484 . P-4R- ...  
P484 . C-4R- ...

D4120.05-24.99F31-P44

0,984

4,92

6,050

2,281

1,250

1,625

0,035

1

D4120.05-25.40F31-P44

1,000

5,000

6,130

2,362

1,250

1,625

0,035

1

D4120.05-26.57F31-P44

1,046

5,230

6,360

2,281

1,250

1,625

0,037

1

D4120.05-26.97F31-P44

1,062

5,31

6,44

2,281

1,250

1,625

0,037

1

D4120.05-28.17F31-P44

1,109

5,545

6,675

2,281

1,250

1,625

0,040

1

D4120.05-28.58F31-P44

1,125

5,625

6,755

2,281

1,250

1,625

0,040

1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,66–0,78               | 0,81–0,94               | 0,97–1,12             | 1,17–1,38                | 1,42–1,62                | 1,69–2,25              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                    | WKP25S        | HC                                                                                  |                                                                                     |                                                                                     | WSP40                                                                               | HC                                                                                  |                                                                                     | WXP40                                                                               | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|                                                                                    |               | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              |                                                                                     | WSP45G                                                                              | WSP45                                                                               |                                                                                     | WSP45G                                                                              | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|  | P4840C-2R-E67 |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4841C-2R-A57 |   |   |   |   |   |   |   |   |   |   |   |
|                                                                                    | P4841C-2R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |  |

P48...C = Centre insert

HC = Coated carbide

P48...P = Outer insert

## Indexable inserts

| Designation                                                                                      | P      |        |       |        |       | M     |        |       | K      |        | S      |
|--------------------------------------------------------------------------------------------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                                  | HC     |        |       |        |       | HC    |        |       | HC     |        | HC     |
|                                                                                                  | WKP25S | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  P4840P-2R-A57 |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |

P48...C = Centre insert

HC = Coated carbide

P48...P = Outer insert

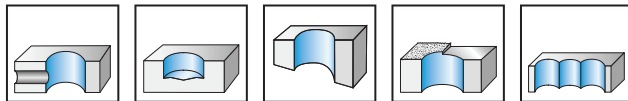
# Indexable insert drills

D4120.05 inch



5×D<sub>C</sub>

Z=1



|          | P | M | K | N | S | H | O |
|----------|---|---|---|---|---|---|---|
| D4120.05 | ● | ● | ● | ● | ● | ● | ● |

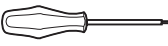
| Tool                            | Designation           | D <sub>C</sub><br>inch | L <sub>C</sub><br>inch | l <sub>4</sub><br>inch | l <sub>5</sub><br>inch | d <sub>1</sub><br>inch | d <sub>4</sub><br>inch | lbs   | No. of<br>indexable<br>inserts | Type                               |
|---------------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------|--------------------------------|------------------------------------|
| <p>Parallel shank with flat</p> | D4120.05-29.74F31-P45 | 1,171                  | 5,855                  | 6,985                  | 2,281                  | 1,250                  | 1,625                  | 0,042 | 1                              | P484 . P-5R- ..<br>P484 . C-5R- .. |
|                                 | D4120.05-30.15F31-P45 | 1,187                  | 5,935                  | 7,065                  | 2,281                  | 1,250                  | 1,625                  | 0,042 | 1                              |                                    |
|                                 | D4120.05-31.75F31-P45 | 1,250                  | 6,250                  | 7,380                  | 2,281                  | 1,250                  | 1,625                  | 0,046 | 1                              |                                    |
|                                 | D4120.05-33.32F31-P45 | 1,312                  | 6,56                   | 7,69                   | 2,281                  | 1,250                  | 1,625                  | 0,050 | 1                              |                                    |
|                                 | D4120.05-34.11F31-P45 | 1,343                  | 6,715                  | 7,845                  | 2,281                  | 1,250                  | 1,625                  | 0,052 | 1                              |                                    |
|                                 | D4120.05-34.93F31-P45 | 1,375                  | 6,875                  | 8,005                  | 2,281                  | 1,250                  | 1,625                  | 0,054 | 1                              |                                    |
|                                 |                       |                        |                        |                        |                        |                        |                        |       | 1                              |                                    |
| <p>Parallel shank with flat</p> | D4120.05-36.09F31-P46 | 1,421                  | 7,105                  | 8,235                  | 2,281                  | 1,250                  | 1,625                  | 0,052 | 1                              | P484 . P-6R- ..<br>P484 . C-6R- .. |
|                                 | D4120.05-36.50F38-P46 | 1,437                  | 7,185                  | 8,565                  | 2,688                  | 1,500                  | 1,940                  | 0,068 | 1                              |                                    |
|                                 | D4120.05-38.10F38-P46 | 1,500                  | 7,500                  | 8,880                  | 2,688                  | 1,500                  | 1,940                  | 0,073 | 1                              |                                    |
|                                 | D4120.05-39.67F38-P46 | 1,562                  | 7,81                   | 9,19                   | 2,688                  | 1,500                  | 1,940                  | 0,082 | 1                              |                                    |
|                                 | D4120.05-41.28F38-P46 | 1,625                  | 8,125                  | 9,505                  | 2,688                  | 1,500                  | 1,940                  | 0,082 | 1                              |                                    |
|                                 |                       |                        |                        |                        |                        |                        |                        |       | 1                              |                                    |
| <p>Parallel shank with flat</p> | D4120.05-42.85F38-P47 | 1,687                  | 8,435                  | 9,815                  | 2,688                  | 1,500                  | 1,940                  | 0,083 | 1                              | P484 . P-7R- ..<br>P484 . C-7R- .. |
|                                 | D4120.05-44.45F38-P47 | 1,750                  | 8,750                  | 10,130                 | 2,688                  | 1,500                  | 1,940                  | 0,092 | 1                              |                                    |
|                                 | D4120.05-46.02F38-P47 | 1,812                  | 9,06                   | 10,44                  | 2,688                  | 1,500                  | 1,940                  | 0,099 | 1                              |                                    |
|                                 | D4120.05-47.63F38-P47 | 1,875                  | 9,375                  | 10,755                 | 2,688                  | 1,500                  | 1,940                  | 0,107 | 1                              |                                    |
|                                 | D4120.05-49.20F38-P47 | 1,937                  | 9,685                  | 11,065                 | 2,688                  | 1,500                  | 1,940                  | 0,115 | 1                              |                                    |
|                                 |                       |                        |                        |                        |                        |                        |                        |       | 1                              |                                    |
| <p>Parallel shank with flat</p> | D4120.05-50.80F51-P48 | 2,000                  | 10,000                 | 11,62                  | 3,250                  | 2,000                  | 2,440                  | 0,163 | 1                              | P484 . P-8R- ..<br>P484 . C-8R- .. |
|                                 | D4120.05-52.37F51-P48 | 2,062                  | 10,31                  | 11,930                 | 3,250                  | 2,000                  | 2,440                  | 0,173 | 1                              |                                    |
|                                 | D4120.05-53.98F51-P48 | 2,125                  | 10,625                 | 12,245                 | 3,250                  | 2,000                  | 2,440                  | 0,184 | 1                              |                                    |
|                                 | D4120.05-55.55F51-P48 | 2,187                  | 10,935                 | 12,555                 | 3,250                  | 2,000                  | 2,440                  | 0,195 | 1                              |                                    |
|                                 | D4120.05-57.15F51-P48 | 2,250                  | 11,250                 | 12,87                  | 3,250                  | 2,000                  | 2,440                  | 0,206 | 1                              |                                    |
|                                 |                       |                        |                        |                        |                        |                        |                        |       | 1                              |                                    |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,66–0,78               | 0,81–0,94               | 0,97–1,12             | 1,17–1,38                | 1,42–1,62                | 1,69–2,25              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,66–0,78     | 0,81–0,94     | 0,97–1,12     | 1,17–1,62      | 1,69–2,25      |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2002        | FS2002        | FS2004        | FS2004         | FS2004         |
|  | Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P<br>HC       |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M<br>HC                                                                             |                                                                                     |                                                                                     | K<br>HC                                                                             |                                                                                     | S<br>HC                                                                             |                                                                                     |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                    | WKP25S        | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |                                                                                     |
|                                                                                    |               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | P4840C-2R-E67 |                                                                                     |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4841C-2R-A57 |                                                                                     |   |   |   |   |   |   |   |   |   |   |
|                                                                                    | P4841C-2R-E57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-3R-E67 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-A57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-E57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-4R-E67 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-A57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-E57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-5R-E67 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-A57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-E57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-6R-E67 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-A57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-E57 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-7R-E67 |                                                                                     |  |  |  |  |  |  |  |  |  |  |
| P4841C-7R-A57                                                                      |               |  |  |  |  |  |  |  |  |  |  |                                                                                     |
| P4841C-7R-E57                                                                      |               |  |  |  |  |  |  |  |  |  |  |                                                                                     |
| P4840C-8R-E67                                                                      |               |  |  |  |  |  |  |  |  |  |  |                                                                                     |
| P4841C-8R-A57                                                                      |               |  |  |  |  |  |  |  |  |  |  |                                                                                     |
| P4841C-8R-E57                                                                      |               |  |  |  |  |  |  |  |  |  |  |                                                                                     |

P48... C = Centre insert

HC = Coated carbide

P48... P = Outer insert

## Indexable inserts

| Designation                                                                        | P<br>HC                                                                             |                                                                                      |                                                                                       |                                                                                       |       | M<br>HC                                                                               |                                                                                       |       | K<br>HC                                                                               |                                                                                       | S<br>HC                                                                               |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                    | WKP25S                                                                              | WKP35S                                                                               | WSP45                                                                                 | WSP45G                                                                                | WXP40 | WSP45                                                                                 | WSP45G                                                                                | WXP40 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|                                                                                    |                                                                                     |                                                                                      |                                                                                       |                                                                                       |       |                                                                                       |                                                                                       |       |                                                                                       |                                                                                       |                                                                                       |
|  |    |    |    |    |       |    |    |       |    |    |    |
| P4840P-2R-E57                                                                      |   |   |   |   |       |   |   |       |   |   |   |
| P4840P-2R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-2R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-2R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-3R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-3R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-4R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-4R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-5R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-5R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-6R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-6R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-7R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-7R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-E67                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-8R-A57                                                                      |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-8R-E57                                                                      |  |  |  |  |       |  |  |       |  |  |  |

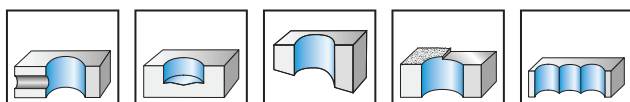


# Indexable insert drills

D4120-05 mm

5×D<sub>C</sub>

Z = 1



|          | P  | M | K  | N  | S | H | O |
|----------|----|---|----|----|---|---|---|
| D4120-05 | ●● |   | ●● | ●● |   |   |   |

| Tool                         | Designation           | D <sub>C</sub><br>mm | L <sub>C</sub><br>mm | l <sub>4</sub><br>mm | l <sub>5</sub><br>mm | d <sub>1</sub><br>mm | d <sub>4</sub><br>mm | kg   | No. of<br>indexable<br>inserts | Type                                 |
|------------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------|--------------------------------|--------------------------------------|
| Parallel shank with flat<br> | D4120-05-17.00F25-P42 | 17                   | 85                   | 110                  | 56                   | 25                   | 35                   | 0,39 | 1<br>1                         | P484 . P-2R- ...<br>P484 . C-2R- ... |
|                              | D4120-05-18.00F25-P42 | 18                   | 90                   | 115                  | 56                   | 25                   | 35                   | 0,47 | 1<br>1                         |                                      |
|                              | D4120-05-19.00F25-P42 | 19                   | 95                   | 120                  | 56                   | 25                   | 35                   | 0,49 | 1<br>1                         |                                      |
|                              | D4120-05-20.00F25-P42 | 20                   | 100                  | 125                  | 56                   | 25                   | 35                   | 0,51 | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-05-21.00F25-P43 | 21                   | 105                  | 130                  | 56                   | 25                   | 35                   | 0,45 | 1<br>1                         | P484 . P-3R- ...<br>P484 . C-3R- ... |
|                              | D4120-05-22.00F25-P43 | 22                   | 110                  | 135                  | 56                   | 25                   | 35                   | 0,58 | 1<br>1                         |                                      |
|                              | D4120-05-23.00F25-P43 | 23                   | 115                  | 140                  | 56                   | 25                   | 35                   | 0,62 | 1<br>1                         |                                      |
|                              | D4120-05-24.00F25-P43 | 24                   | 120                  | 145                  | 56                   | 25                   | 35                   | 0,63 | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-05-25.00F25-P44 | 25                   | 125                  | 150                  | 56                   | 25                   | 35                   | 0,54 | 1<br>1                         | P484 . P-4R- ...<br>P484 . C-4R- ... |
|                              | D4120-05-26.00F32-P44 | 26                   | 130                  | 162                  | 60                   | 32                   | 42                   | 0,95 | 1<br>1                         |                                      |
|                              | D4120-05-27.00F32-P44 | 27                   | 135                  | 167                  | 60                   | 32                   | 42                   | 1    | 1<br>1                         |                                      |
|                              | D4120-05-28.00F32-P44 | 28                   | 140                  | 172                  | 60                   | 32                   | 42                   | 1,03 | 1<br>1                         |                                      |
|                              | D4120-05-29.00F32-P44 | 29                   | 145                  | 177                  | 60                   | 32                   | 42                   | 1,1  | 1<br>1                         |                                      |
| Parallel shank with flat<br> | D4120-05-30.00F32-P45 | 30                   | 150                  | 182                  | 60                   | 32                   | 42                   | 1,01 | 1<br>1                         | P484 . P-5R- ...<br>P484 . C-5R- ... |
|                              | D4120-05-31.00F32-P45 | 31                   | 155                  | 187                  | 60                   | 32                   | 42                   | 1,18 | 1<br>1                         |                                      |
|                              | D4120-05-32.00F32-P45 | 32                   | 160                  | 192                  | 60                   | 32                   | 42                   | 1,23 | 1<br>1                         |                                      |
|                              | D4120-05-33.00F32-P45 | 33                   | 165                  | 197                  | 60                   | 32                   | 42                   | 1,3  | 1<br>1                         |                                      |
|                              | D4120-05-34.00F32-P45 | 34                   | 170                  | 202                  | 60                   | 32                   | 42                   | 1,37 | 1<br>1                         |                                      |
|                              | D4120-05-35.00F32-P45 | 35                   | 175                  | 207                  | 60                   | 32                   | 42                   | 1,45 | 1<br>1                         |                                      |

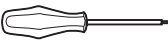
Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

| D <sub>c</sub> [mm]                                                                                                                        | 17–20                   | 21–24                   | 25–29                 | 30–35                    | 36–42                    | 43–59                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

| D <sub>c</sub> [mm]                                                                                            | 17–20         | 21–24         | 25–29         | 30–42          | 43–59          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|----------------|----------------|
|  Torque screwdriver, analogue | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                                      | P      |                                                                                     |       |                                                                                     |                                                                                     | M     |                                                                                     |       | K      |                                                                                     | S                                                                                   |
|--------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                  | HC     |                                                                                     |       |                                                                                     |                                                                                     | HC    |                                                                                     |       | HC     |                                                                                     | HC                                                                                  |
|                                                                                                  | WKP25S | WKP35S                                                                              | WSP45 | WSP45G                                                                              | WXP40                                                                               | WSP45 | WSP45G                                                                              | WXP40 | WKP25S | WKP35S                                                                              | WSP45G                                                                              |
|  P4840C-2R-E67 |        |    |       |    |    |       |    |       |        |    |    |
| P4841C-2R-A57                                                                                    |        |   |       |   |   |       |   |       |        |   |   |
| P4841C-2R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4840C-3R-E67                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-3R-A57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-3R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4840C-4R-E67                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-4R-A57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-4R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4840C-5R-E67                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-5R-A57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-5R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4840C-6R-E67                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-6R-A57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-6R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4840C-7R-E67                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-7R-A57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-7R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4840C-8R-E67                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-8R-A57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |
| P4841C-8R-E57                                                                                    |        |  |       |  |  |       |  |       |        |  |  |

HC = Coated carbide

## Indexable inserts

| Designation                                                                                      | P      |        |       |        | M     |       |        | K     |        | S      |        |
|--------------------------------------------------------------------------------------------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                                  | HC     |        |       |        | HC    |       |        | HC    |        | HC     |        |
|                                                                                                  | WKP25S | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  P4840P-2R-A57 |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |

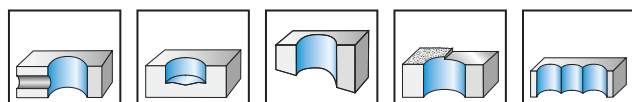
HC = Coated carbide

# Indexable insert drills

D4120-05 mm

5×D<sub>C</sub>

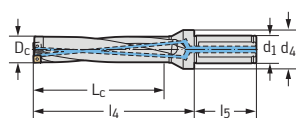
Z=1



|          | P  | M | K  | N  | S | H | O |
|----------|----|---|----|----|---|---|---|
| D4120-05 | ●● |   | ●● | ●● |   |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>C</sub>  
mm

L<sub>C</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm

kg

No. of  
indexable  
inserts

Type

D4120-05-36.00F32-P46

36

180

212

60

32

42

1,32

1  
1

P484 . P-6R- ..

D4120-05-37.00F40-P46

37

185

225

70

40

50

1,45

1  
1

P484 . C-6R- ..

D4120-05-38.00F40-P46

38

190

230

70

40

50

2,02

1  
1

D4120-05-39.00F40-P46

39

195

235

70

40

50

2,09

1  
1

D4120-05-40.00F40-P46

40

200

240

70

40

50

2,17

1  
1

D4120-05-41.00F40-P46

41

205

245

70

40

50

2,35

1  
1

D4120-05-42.00F40-P46

42

210

250

70

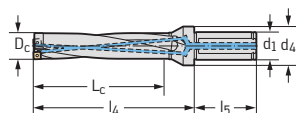
40

50

2,45

1  
1

Parallel shank with flat



D4120-05-43.00F40-P47

43

215

255

70

40

50

2,54

1  
1

P484 . P-7R- ..

D4120-05-44.00F40-P47

44

220

260

70

40

50

2,65

1  
1

P484 . C-7R- ..

D4120-05-45.00F40-P47

45

225

265

70

40

50

2,75

1  
1

D4120-05-46.00F40-P47

46

230

270

70

40

50

2,87

1  
1

D4120-05-47.00F40-P47

47

235

275

70

40

50

2,99

1  
1

D4120-05-48.00F40-P47

48

240

280

70

40

50

3,08

1  
1

D4120-05-49.00F40-P47

49

245

285

70

40

50

3,26

1  
1

D4120-05-50.00F40-P47

50

250

290

70

40

50

3,39

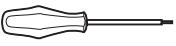
1  
1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 17–20                   | 21–24                   | 25–29                 | 30–35                    | 36–42                    | 43–59                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 17–20         | 21–24         | 25–29         | 30–42          | 43–59          |
|-----------------------------------------------------------------------------------|------------------------------|---------------|---------------|---------------|----------------|----------------|
|  | Torque screwdriver, analogue | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  | Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  | Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                    | HC            |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |
|                                                                                    | WKP25S        | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|  | P4840C-2R-E67 |    |    |    |    |    |    |    |    |    |    |
|                                                                                    | P4841C-2R-A57 |   |   |   |   |   |   |   |   |   |   |
|                                                                                    | P4841C-2R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-3R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-3R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-4R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-4R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-5R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-5R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-6R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-6R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-7R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-7R-E57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4840C-8R-E67 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-A57 |  |  |  |  |  |  |  |  |  |  |
|                                                                                    | P4841C-8R-E57 |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Indexable inserts

| Designation                                                                                      | P                                                                                     |                                                                                       |                                                                                       |                                                                                       |       | M                                                                                     |                                                                                       |       | K                                                                                     |                                                                                       | S                                                                                     |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                  | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       |       | HC                                                                                    |                                                                                       |       | HC                                                                                    |                                                                                       | HC                                                                                    |
|                                                                                                  | WKP25S                                                                                | WKP35S                                                                                | WSP45                                                                                 | WSP45G                                                                                | WXP40 | WSP45                                                                                 | WSP45G                                                                                | WXP40 | WKP25S                                                                                | WKP35S                                                                                | WSP45G                                                                                |
|  P4840P-2R-A57 |    |    |    |    |       |    |    |       |    |    |    |
| P4840P-2R-E57                                                                                    |   |   |   |   |       |   |   |       |   |   |   |
| P4840P-2R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-2R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-2R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-3R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-3R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-3R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-4R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-4R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-4R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-5R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-5R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-5R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-6R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-6R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-6R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-7R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-7R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-7R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4840P-8R-E67                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-8R-A57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |
| P4841P-8R-E57                                                                                    |  |  |  |  |       |  |  |       |  |  |  |

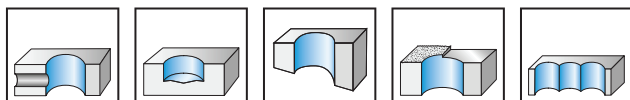
# Indexable insert drills

D4120-05 mm

5×D<sub>c</sub>

Z=1

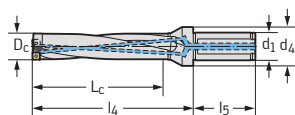
B1



|          | P  | M | K  | N  | S | H | O |
|----------|----|---|----|----|---|---|---|
| D4120-05 | ●● |   | ●● | ●● |   |   |   |

## Tool

Parallel shank with flat



Designation

D<sub>c</sub>  
mm

L<sub>c</sub>  
mm

l<sub>4</sub>  
mm

l<sub>5</sub>  
mm

d<sub>1</sub>  
mm

d<sub>4</sub>  
mm


kg

No. of  
indexable  
inserts

Type

D4120-05-51.00F40-P48

51

255

295

70

40

50

3,45

1  
1

P484 . P-8R- ...

D4120-05-52.00F40-P48

52

260

300

70

40

50

3,61

1  
1

P484 . C-8R- ...

D4120-05-53.00F40-P48

53

265

305

70

40

50

3,74

1  
1

D4120-05-54.00F40-P48

54

270

310

70

40

50

3,86

1  
1

D4120-05-55.00F40-P48

55

275

315

70

40

50

4,07

1  
1

D4120-05-56.00F40-P48

56

280

320

70

40

50

4,22

1  
1

D4120-05-57.00F40-P48

57

285

325

70

40

50

4,2

1  
1

D4120-05-58.00F40-P48

58

290

330

70

40

50

4,39

1  
1

D4120-05-59.00F40-P48

59

295

335

70

40

50

4,8

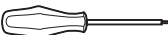
1  
1

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

| D <sub>c</sub> [mm]                                                                                                                        | 17–20                   | 21–24                   | 25–29                 | 30–35                    | 36–42                    | 43–59                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|------------------------|
|  Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0,9 Nm | FS1454 (T8IP)<br>1,2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1495 (T20IP)<br>5 Nm |

## Accessories

| D <sub>c</sub> [mm]                                                                                            | 17–20         | 21–24         | 25–29         | 30–42          | 43–59          |
|----------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|----------------|----------------|
|  Torque screwdriver, analogue | FS2001        | FS2001        | FS2003        | FS2003         | FS2003         |
|  Torque screwdriver, digital  |               | FS2248        | FS2248        | FS2248         | FS2248         |
|  Interchangeable blade        | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  Screwdriver                  | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| Designation                                                                        | P             |        |       |        |       | M     |        |       | K      |        | S      |
|------------------------------------------------------------------------------------|---------------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                    | HC            |        |       |        |       | HC    |        |       | HC     |        | HC     |
|                                                                                    | WKP25S        | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  | P4840C-2R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-2R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-2R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-3R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-3R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-3R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-4R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-4R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-4R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-5R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-5R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-5R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-6R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-6R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-6R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-7R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-7R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-7R-E57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4840C-8R-E67 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-8R-A57 |        |       |        |       |       |        |       |        |        |        |
|                                                                                    | P4841C-8R-E57 |        |       |        |       |       |        |       |        |        |        |

HC = Coated carbide  
null = null

## Indexable inserts

| Designation                                                                                      | P      |        |       |        | M     |       |        | K     |        | S      |        |
|--------------------------------------------------------------------------------------------------|--------|--------|-------|--------|-------|-------|--------|-------|--------|--------|--------|
|                                                                                                  | HC     |        |       |        | HC    |       |        | HC    |        | HC     |        |
|                                                                                                  | WKP25S | WKP35S | WSP45 | WSP45G | WXP40 | WSP45 | WSP45G | WXP40 | WKP25S | WKP35S | WSP45G |
|  P4840P-2R-A57 |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-2R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-2R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-3R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-3R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-4R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-4R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-5R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-5R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-6R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-6R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-7R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-7R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4840P-8R-E67                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-A57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |
| P4841P-8R-E57                                                                                    |        |        |       |        |       |       |        |       |        |        |        |

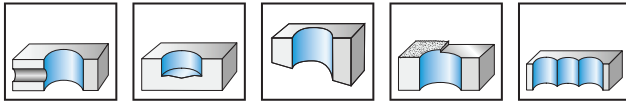
HC = Coated carbide  
null = null

# Indexable insert drill with cartridge

D4170-03

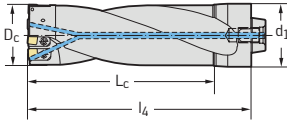


B1



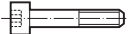
|                |                |         |
|----------------|----------------|---------|
| $D_c$<br>65-80 | $3 \times D_c$ | $Z = 1$ |
|----------------|----------------|---------|

|          | P  | M | K | N | S | H | O |
|----------|----|---|---|---|---|---|---|
| D4170-03 | ●● |   |   |   |   |   |   |

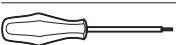
| Tool                                                                              | Designation          | $D_c$<br>mm | $L_c$<br>mm | $l_4$<br>mm | $d_1$<br>mm | $d_1$  | kg   | No. of<br>indexable<br>inserts | Type                               |
|-----------------------------------------------------------------------------------|----------------------|-------------|-------------|-------------|-------------|--------|------|--------------------------------|------------------------------------|
|  | D4170-03-65.00N8-P45 | 65          | 195         | 245         | 80          | NCT 80 | 4,32 | 3<br>1                         | P484 . P-5R- ..<br>P484 . C-5R- .. |
|                                                                                   | D4170-03-68.00N8-P46 | 68          | 204         | 254         | 80          | NCT 80 | 4,68 | 3<br>1                         | P484 . P-6R- ..<br>P484 . C-6R- .. |
|                                                                                   | D4170-03-70.00N8-P46 | 70          | 210         | 260         | 80          | NCT 80 | 4,94 | 3<br>1                         |                                    |
|                                                                                   | D4170-03-78.00N8-P46 | 78          | 234         | 284         | 80          | NCT 80 | 6,13 | 3<br>1                         |                                    |
|                                                                                   | D4170-03-80.00N8-P45 | 80          | 240         | 290         | 80          | NCT 80 | 6,33 | 5<br>1                         | P484 . P-5R- ..<br>P484 . C-5R- .. |

Important: A disc forms where through holes are created by a rotating tool. This disc might then be ejected. Please take precautionary measures

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 65                       | 68                       | 70                       | 78                       | 80                       |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1453 (T15IP)<br>3,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1453 (T15IP)<br>3,5 Nm | FS1453 (T15IP)<br>3,5 Nm |
|  | Adjusting screw, radial                                  | FS334 (SW 2)             | FS334 (SW 2)             | FS334 (SW 2)             | FS334 (SW 2)             | FS334 (SW 2)             |
|  | Internal cartridge                                       | FR737C-5                 | FR743C-6                 | FR743C-6                 | FR743C-6                 | FR737C-5                 |
|  | External cartridge 1                                     | FR738P-5                 | FR744P-6                 | FR744P-6                 | FR744P-6                 | FR738P-5                 |
|  | External cartridge 2                                     | FR741P-5                 | FR745P-6                 | FR746P-6                 | FR748P-6                 | FR739P-5                 |
|  | Clamping screw for<br>tightening torque                  | FS1149 (SW 4)<br>5 Nm    | FS1149 (SW 4)<br>5 Nm    | FS1149 (SW 4)<br>5 Nm    | FS1149 (SW 4)<br>5 Nm    | FS1149 (SW 4)<br>5 Nm    |

## Accessories

|                                                                                     | D <sub>c</sub> [mm]          | 65–80            |
|-------------------------------------------------------------------------------------|------------------------------|------------------|
|    | Torque screwdriver, analogue | FS2003           |
|    | Torque screwdriver, digital  | FS2248           |
|    | Interchangeable blade        | FS2014 (T15IP)   |
|    | ISO 2936 key for             | ISO2936-4 (SW 4) |
|  | Screwdriver                  | FS1485 (T15IP)   |

In tools with the diameter D<sub>c</sub> = 80 mm, the external cartridge 1 (FR738P-5) is fitted three times

## Indexable inserts

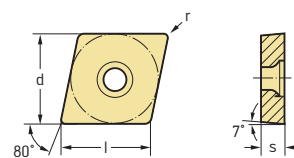
|                                                                                     | Designation                                                                         | P                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
|                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC     |
|                                                                                     |                                                                                     | WKP25S                                                                              | WKP35S                                                                              | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WSP45                                                                               | WSP45G                                                                              | WXP40                                                                               | WKP25S                                                                              | WKP35S                                                                              | WSP45G |
|  | P4840C-5R-E67                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841C-5R-A57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841C-5R-E57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4840C-6R-E67                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841C-6R-A57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841C-6R-E57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|  | P4840P-5R-A57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4840P-5R-E57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4840P-5R-E67                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841P-5R-A57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841P-5R-E57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4840P-6R-A57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4840P-6R-E57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4840P-6R-E67                                                                       |  |  |  |  |  |  |  |  |  |  |        |
|                                                                                     | P4841P-6R-A57                                                                       |  |  |  |  |  |  |  |  |  |  |        |
| P4841P-6R-E57                                                                       |  |  |  |  |  |  |  |  |  |  |                                                                                     |        |

P48...C = Centre insert

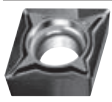
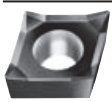
P48...P = Outer insert

HC = Coated carbide

# Positive rhombic 80° CCGT



## Indexable inserts

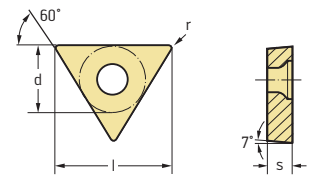
|                                                                                   | Designation    | l<br>mm | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | M     | N     | S     |
|-----------------------------------------------------------------------------------|----------------|---------|---------|-----------|----------------------|-------|-------|-------|
|                                                                                   |                |         |         |           |                      | HC    | HC    | HW    |
|                                                                                   |                |         |         |           |                      | WSM01 | WNN10 | WNI10 |
|  | CCGT060201-FN2 | 6,45    | 0,1     | 0,02–0,06 | 0,1–1,5              |       |       |       |
|                                                                                   | CCGT060202-FN2 | 6,45    | 0,2     | 0,05–0,12 | 0,2–2,0              |       |       |       |
|                                                                                   | CCGT060204-FN2 | 6,45    | 0,4     | 0,08–0,25 | 0,2–2,5              |       |       |       |
|                                                                                   | CCGT09T301-FN2 | 9,67    | 0,1     | 0,02–0,06 | 0,1–1,5              |       |       |       |
|                                                                                   | CCGT09T302-FN2 | 9,67    | 0,2     | 0,05–0,12 | 0,2–2,0              |       |       |       |
|                                                                                   | CCGT09T304-FN2 | 9,67    | 0,4     | 0,08–0,25 | 0,2–2,5              |       |       |       |
|                                                                                   | CCGT09T308-FN2 | 9,67    | 0,8     | 0,10–0,30 | 0,3–3,0              |       |       |       |
|                                                                                   | CCGT120404-FN2 | 12,9    | 0,4     | 0,08–0,25 | 0,2–3,0              |       |       |       |
|  | CCGT120408-FN2 | 12,9    | 0,8     | 0,10–0,30 | 0,3–3,5              |       |       |       |
|                                                                                   | CCGT060201-MN2 | 6,45    | 0,1     | 0,02–0,06 | 0,5–1,5              |       |       |       |
|                                                                                   | CCGT060202-MN2 | 6,45    | 0,2     | 0,05–0,12 | 0,5–2,0              |       |       |       |
|                                                                                   | CCGT060204-MN2 | 6,45    | 0,4     | 0,08–0,25 | 0,6–3,0              |       |       |       |
|                                                                                   | CCGT09T301-MN2 | 9,67    | 0,1     | 0,02–0,06 | 0,5–1,5              |       |       |       |
|                                                                                   | CCGT09T302-MN2 | 9,67    | 0,2     | 0,05–0,12 | 0,5–2,0              |       |       |       |
|                                                                                   | CCGT09T304-MN2 | 9,67    | 0,4     | 0,08–0,25 | 0,6–4,0              |       |       |       |
|                                                                                   | CCGT09T308-MN2 | 9,67    | 0,8     | 0,10–0,35 | 0,8–4,0              |       |       |       |
|                                                                                   | CCGT120402-MN2 | 12,9    | 0,2     | 0,05–0,12 | 0,5–2,0              |       |       |       |
|                                                                                   | CCGT120404-MN2 | 12,9    | 0,4     | 0,08–0,25 | 0,6–5,0              |       |       |       |
|                                                                                   | CCGT120408-MN2 | 12,9    | 0,8     | 0,10–0,35 | 0,8–5,0              |       |       |       |

See the ISO 1832 designation key for dimensions

HC = Coated carbide  
HW = Uncoated carbide



## Positive triangular 60° TCGT



### Indexable inserts

|                                                                                   | Designation    | l<br>mm | r<br>mm | f<br>mm   | a <sub>p</sub><br>mm | M                                                                                   | N                                                                                   |                                                                                     | S                                                                                   |
|-----------------------------------------------------------------------------------|----------------|---------|---------|-----------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                |         |         |           |                      | HC                                                                                  | HC                                                                                  | HW                                                                                  | HC                                                                                  |
|                                                                                   |                |         |         |           |                      | WSM01                                                                               | WNN10                                                                               | WNI10                                                                               | WSM01                                                                               |
|  | TCGT06T101-FN2 | 6,87    | 0,1     | 0,02–0,06 | 0,1–1,5              |                                                                                     |    |                                                                                     |                                                                                     |
|                                                                                   | TCGT06T102-FN2 | 6,87    | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                     |    |                                                                                     |                                                                                     |
|                                                                                   | TCGT06T104-FN2 | 6,87    | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                     |    |    |                                                                                     |
|                                                                                   | TCGT090202-FN2 | 9,62    | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                     |    |                                                                                     |                                                                                     |
|                                                                                   | TCGT090204-FN2 | 9,62    | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                     |    |    |                                                                                     |
|                                                                                   | TCGT110202-FN2 | 11      | 0,2     | 0,05–0,12 | 0,2–2,0              |                                                                                     |    |                                                                                     |                                                                                     |
|                                                                                   | TCGT110204-FN2 | 11      | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                     |    |    |                                                                                     |
|                                                                                   | TCGT16T304-FN2 | 16,5    | 0,4     | 0,08–0,25 | 0,2–2,5              |                                                                                     |    |    |                                                                                     |
|  | TCGT16T308-FN2 | 16,5    | 0,8     | 0,10–0,30 | 0,3–3,0              |                                                                                     |   |   |                                                                                     |
|                                                                                   | TCGT110201-MN2 | 11      | 0,1     | 0,02–0,06 | 0,5–1,5              |                                                                                     |  |                                                                                     |                                                                                     |
|                                                                                   | TCGT110202-MN2 | 11      | 0,2     | 0,05–0,12 | 0,6–2,0              |                                                                                     |  |  |                                                                                     |
|                                                                                   | TCGT110204-MN2 | 11      | 0,4     | 0,08–0,25 | 0,6–3,0              |  |  |  |  |
|                                                                                   | TCGT16T302-MN2 | 16,5    | 0,2     | 0,05–0,12 | 0,5–2,0              |                                                                                     |  |  |                                                                                     |
|                                                                                   | TCGT16T304-MN2 | 16,5    | 0,4     | 0,08–0,25 | 0,6–4,0              |  |  |  |  |
|                                                                                   | TCGT16T308-MN2 | 16,5    | 0,8     | 0,10–0,35 | 0,8–4,0              |  |  |  |  |

See the ISO 1832 designation key for dimensions

 HC = Coated carbide  
 HW = Uncoated carbide

B2



## B – Threading

### Tapping – B3

|         |               |     |
|---------|---------------|-----|
| Tapping | HSS-E-PM taps | 140 |
|---------|---------------|-----|

### Thread forming – B4

|                |                      |     |
|----------------|----------------------|-----|
| Thread forming | HSS-E thread formers | 169 |
|----------------|----------------------|-----|

### Thread milling – B5

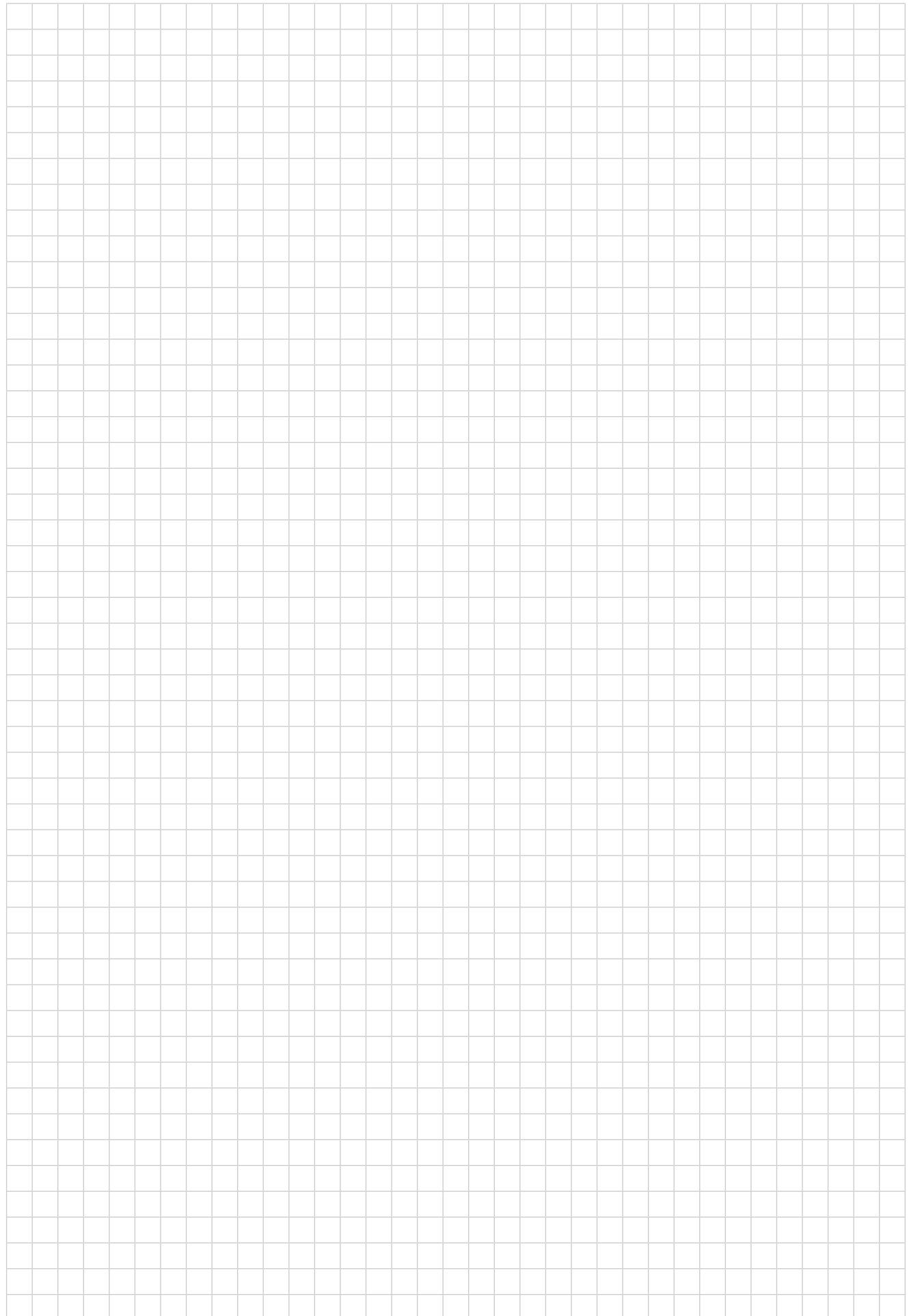
|                |                                              |     |
|----------------|----------------------------------------------|-----|
| Thread milling | Solid carbide orbital thread milling cutters | 170 |
|----------------|----------------------------------------------|-----|

B 3

B 4

B 5

B4



## HSS-E-PM machine taps

mm

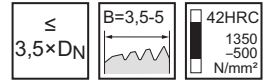
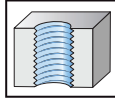
## Prototex® Eco Plus



– For long-chipping materials

M  
DIN 13

6HX



|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2021302 | ● | ● | ● | ● |   |   |   |
| TIN EP2021305 | ● | ● | ● | ● |   |   |   |

## DIN 371

|  | Designation    | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|--|----------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
|  | EP2021302-M2   | M 2            | 0,4     | 45                   | 6                    | 9                    | 2,8                        | 2,1 | 5                    | 3 |
|  | EP2021302-M2.5 | M 2.5          | 0,45    | 50                   | 8                    | 12,5                 | 2,8                        | 2,1 | 5                    | 3 |
|  | EP2021302-M3   | M 3            | 0,5     | 56                   | 9                    | 18                   | 3,5                        | 2,7 | 6                    | 3 |
|  | EP2021302-M4   | M 4            | 0,7     | 63                   | 12                   | 21                   | 4,5                        | 3,4 | 6                    | 3 |
|  | EP2021302-M5   | M 5            | 0,8     | 70                   | 13                   | 25                   | 6                          | 4,9 | 8                    | 3 |
|  | EP2021302-M6   | M 6            | 1       | 80                   | 15                   | 30                   | 6                          | 4,9 | 8                    | 3 |
|  | EP2021302-M8   | M 8            | 1,25    | 90                   | 18                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|  | EP2021302-M10  | M 10           | 1,5     | 100                  | 20                   | 39                   | 10                         | 8   | 11                   | 3 |
|  | EP2021305-M2   | M 2            | 0,4     | 45                   | 6                    | 9                    | 2,8                        | 2,1 | 5                    | 3 |
|  | EP2021305-M2.5 | M 2.5          | 0,45    | 50                   | 8                    | 12,5                 | 2,8                        | 2,1 | 5                    | 3 |
|  | EP2021305-M3   | M 3            | 0,5     | 56                   | 9                    | 18                   | 3,5                        | 2,7 | 6                    | 3 |
|  | EP2021305-M4   | M 4            | 0,7     | 63                   | 12                   | 21                   | 4,5                        | 3,4 | 6                    | 3 |
|  | EP2021305-M5   | M 5            | 0,8     | 70                   | 13                   | 25                   | 6                          | 4,9 | 8                    | 3 |
|  | EP2021305-M6   | M 6            | 1       | 80                   | 15                   | 30                   | 6                          | 4,9 | 8                    | 3 |
|  | EP2021305-M8   | M 8            | 1,25    | 90                   | 18                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|  | EP2021305-M10  | M 10           | 1,5     | 100                  | 20                   | 39                   | 10                         | 8   | 11                   | 3 |

B4

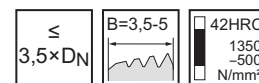
# HSS-E-PM machine taps

mm

## Prototex® Eco Plus



– For long-chipping materials



|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2026302 | ● | ● | ● | ● | ● | ● | ● |
| TIN EP2026305 | ● | ● | ● | ● | ● | ● | ● |

### DIN 376

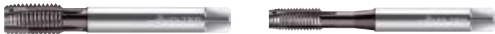
| Designation   | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □    | l <sub>g</sub><br>mm | N |
|---------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|------|----------------------|---|
| EP2026302-M12 | M 12           | 1,75    | 110                  | 23                   | 83                   | 9                          | 7    | 10                   | 4 |
| EP2026302-M14 | M 14           | 2       | 110                  | 25                   | 81                   | 11                         | 9    | 12                   | 4 |
| EP2026302-M16 | M 16           | 2       | 110                  | 25                   | 68                   | 12                         | 9    | 12                   | 4 |
| EP2026302-M18 | M 18           | 2,5     | 125                  | 30                   | 81                   | 14                         | 11   | 14                   | 4 |
| EP2026302-M20 | M 20           | 2,5     | 140                  | 30                   | 95                   | 16                         | 12   | 15                   | 4 |
| EP2026302-M24 | M 24           | 3       | 160                  | 36                   | 113                  | 18                         | 14,5 | 17                   | 4 |
| EP2026302-M27 | M 27           | 3       | 160                  | 36                   | 97                   | 20                         | 16   | 19                   | 4 |
| EP2026302-M30 | M 30           | 3,5     | 180                  | 42                   | 115                  | 22                         | 18   | 21                   | 4 |
| EP2026305-M12 | M 12           | 1,75    | 110                  | 23                   | 83                   | 9                          | 7    | 10                   | 4 |
| EP2026305-M14 | M 14           | 2       | 110                  | 25                   | 81                   | 11                         | 9    | 12                   | 4 |
| EP2026305-M16 | M 16           | 2       | 110                  | 25                   | 68                   | 12                         | 9    | 12                   | 4 |
| EP2026305-M18 | M 18           | 2,5     | 125                  | 30                   | 81                   | 14                         | 11   | 14                   | 4 |
| EP2026305-M20 | M 20           | 2,5     | 140                  | 30                   | 95                   | 16                         | 12   | 15                   | 4 |
| EP2026305-M24 | M 24           | 3       | 160                  | 36                   | 113                  | 18                         | 14,5 | 17                   | 4 |

B4

HSS-E-PM machine taps

mm

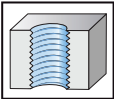
Prototex® Eco Plus



– For long-chipping materials

M  
DIN 13

6HX



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● |   |   |   |

| DIN 371 |             |               | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|---------|-------------|---------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
|         | Designation | EP2021342-M6  | M 6            | 1       | 80                   | 15                   | 30                   | 6                          | 4,9 | 8                    | 3 |
|         |             | EP2021342-M8  | M 8            | 1,25    | 90                   | 18                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|         |             | EP2021342-M10 | M 10           | 1,5     | 100                  | 20                   | 39                   | 10                         | 8   | 11                   | 3 |
|         |             | EP2026342-M12 | M 12           | 1,75    | 110                  | 23                   | 83                   | 9                          | 7   | 10                   | 4 |
|         |             | EP2026342-M16 | M 16           | 2       | 110                  | 25                   | 68                   | 12                         | 9   | 12                   | 4 |

B4

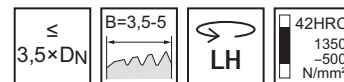
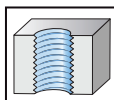
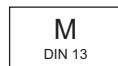
# HSS-E-PM machine taps

mm

## Prototex® Eco Plus



– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 371

| Designation   | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>9</sub><br>mm | N |
|---------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
| EP2021382-M3  | M 3            | 0,5     | 56                   | 9                    | 18                   | 3,5                        | 2,7 | 6                    | 3 |
| EP2021382-M4  | M 4            | 0,7     | 63                   | 12                   | 21                   | 4,5                        | 3,4 | 6                    | 3 |
| EP2021382-M5  | M 5            | 0,8     | 70                   | 13                   | 25                   | 6                          | 4,9 | 8                    | 3 |
| EP2021382-M6  | M 6            | 1       | 80                   | 15                   | 30                   | 6                          | 4,9 | 8                    | 3 |
| EP2021382-M8  | M 8            | 1,25    | 90                   | 18                   | 35                   | 8                          | 6,2 | 9                    | 3 |
| EP2021382-M10 | M 10           | 1,5     | 100                  | 20                   | 39                   | 10                         | 8   | 11                   | 3 |
| EP2026382-M12 | M 12           | 1,75    | 110                  | 23                   | 83                   | 9                          | 7   | 10                   | 4 |
| EP2026382-M16 | M 16           | 2       | 110                  | 25                   | 68                   | 12                         | 9   | 12                   | 4 |
| EP2026382-M20 | M 20           | 2,5     | 140                  | 30                   | 95                   | 16                         | 12  | 15                   | 4 |

B4



## HSS-E-PM machine taps

mm

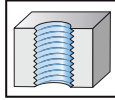
## Prototex® Eco Plus



– For long-chipping materials

M  
DIN 13

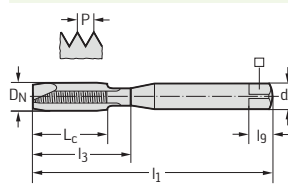
6GX


 $\leq$   
 $3,5 \times D_N$ 
 $B=3,5-5$ 

42HRC  
1350  
~500  
N/mm<sup>2</sup>

|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2023302 | ● | ● | ● | ● |   |   |   |
| TIN EP2023305 | ● | ● | ● | ● |   |   |   |

## DIN 371



## Designation

D<sub>N</sub>P  
mml<sub>1</sub>  
mmL<sub>c</sub>  
mml<sub>3</sub>  
mmd<sub>1</sub>  
h9  
mm

□

l<sub>g</sub>  
mm

N

EP2023302-M2

M 2

0,4

45

6

9

2,8

2,1

5

3

EP2023302-M2.5

M 2.5

0,45

50

8

12,5

2,8

2,1

5

3

EP2023302-M3

M 3

0,5

56

9

18

3,5

2,7

6

3

EP2023302-M4

M 4

0,7

63

12

21

4,5

3,4

6

3

EP2023302-M5

M 5

0,8

70

13

25

6

4,9

8

3

EP2023302-M6

M 6

1

80

15

30

6

4,9

8

3

EP2023302-M8

M 8

1,25

90

18

35

8

6,2

9

3

EP2023302-M10

M 10

1,5

100

20

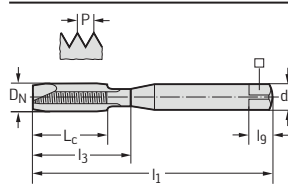
39

10

8

11

3



EP2023305-M2

M 2

0,4

45

6

9

2,8

2,1

5

3

EP2023305-M2.5

M 2.5

0,45

50

8

12,5

2,8

2,1

5

3

EP2023305-M3

M 3

0,5

56

9

18

3,5

2,7

6

3

EP2023305-M4

M 4

0,7

63

12

21

4,5

3,4

6

3

EP2023305-M5

M 5

0,8

70

13

25

6

4,9

8

3

EP2023305-M6

M 6

1

80

15

30

6

4,9

8

3

EP2023305-M8

M 8

1,25

90

18

35

8

6,2

9

3

EP2023305-M10

M 10

1,5

100

20

39

10

8

11

3

B4

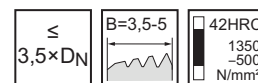
# HSS-E-PM machine taps

mm

## Prototex® Eco Plus



– For long-chipping materials



|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2028302 | ● | ● | ● | ● | ● | ● | ● |
| TIN EP2028305 | ● | ● | ● | ● | ● | ● | ● |

### DIN 376

| Designation   | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □ | l <sub>g</sub><br>mm | N |
|---------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|---|----------------------|---|
| EP2028302-M12 | M 12           | 1,75    | 110                  | 23                   | 83                   | 9                          | 7 | 10                   | 4 |
| EP2028302-M14 | M 14           | 2       | 110                  | 25                   | 81                   | 11                         | 9 | 12                   | 4 |
| EP2028302-M16 | M 16           | 2       | 110                  | 25                   | 68                   | 12                         | 9 | 12                   | 4 |
| EP2028305-M12 | M 12           | 1,75    | 110                  | 23                   | 83                   | 9                          | 7 | 10                   | 4 |
| EP2028305-M14 | M 14           | 2       | 110                  | 25                   | 81                   | 11                         | 9 | 12                   | 4 |
| EP2028305-M16 | M 16           | 2       | 110                  | 25                   | 68                   | 12                         | 9 | 12                   | 4 |

B4

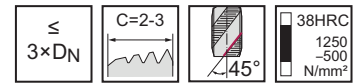
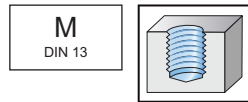
## HSS-E-PM machine taps

mm

## Paradur® Eco Plus



– For long-chipping materials



|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2051302 | ● | ● | ● | ● |   |   |   |
| TIN EP2051305 | ● | ● | ● | ● |   |   |   |

| ~DIN 371 |  | Designation    | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|----------|--|----------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
|          |  | EP2051302-M2   | M 2            | 0,4     | 45                   | 4                    | 7,6                  | 2,8                        | 2,1 | 5                    | 3 |
|          |  | EP2051302-M2.5 | M 2.5          | 0,45    | 50                   | 4                    | 9,3                  | 2,8                        | 2,1 | 5                    | 3 |
|          |  | EP2051302-M3   | M 3            | 0,5     | 56                   | 6                    | 11                   | 3,5                        | 2,7 | 6                    | 3 |
|          |  | EP2051302-M4   | M 4            | 0,7     | 63                   | 7                    | 14,8                 | 4,5                        | 3,4 | 6                    | 3 |
|          |  | EP2051302-M5   | M 5            | 0,8     | 70                   | 8                    | 20,7                 | 6                          | 4,9 | 8                    | 3 |
|          |  | EP2051302-M6   | M 6            | 1       | 80                   | 10                   | 25                   | 6                          | 4,9 | 8                    | 3 |
|          |  | EP2051302-M8   | M 8            | 1,25    | 90                   | 12                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|          |  | EP2051302-M10  | M 10           | 1,5     | 100                  | 15                   | 39                   | 10                         | 8   | 11                   | 3 |
|          |  | EP2051305-M2   | M 2            | 0,4     | 45                   | 4                    | 7,6                  | 2,8                        | 2,1 | 5                    | 3 |
|          |  | EP2051305-M2.5 | M 2.5          | 0,45    | 50                   | 4                    | 9,3                  | 2,8                        | 2,1 | 5                    | 3 |
|          |  | EP2051305-M3   | M 3            | 0,5     | 56                   | 6                    | 11                   | 3,5                        | 2,7 | 6                    | 3 |
|          |  | EP2051305-M4   | M 4            | 0,7     | 63                   | 7                    | 14,8                 | 4,5                        | 3,4 | 6                    | 3 |
|          |  | EP2051305-M5   | M 5            | 0,8     | 70                   | 8                    | 20,7                 | 6                          | 4,9 | 8                    | 3 |
|          |  | EP2051305-M6   | M 6            | 1       | 80                   | 10                   | 25                   | 6                          | 4,9 | 8                    | 3 |
|          |  | EP2051305-M8   | M 8            | 1,25    | 90                   | 12                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|          |  | EP2051305-M10  | M 10           | 1,5     | 100                  | 15                   | 39                   | 10                         | 8   | 11                   | 3 |

B4

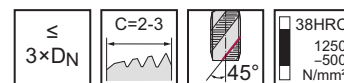
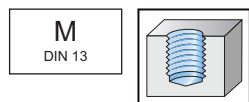
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus

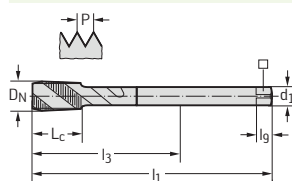


– For long-chipping materials

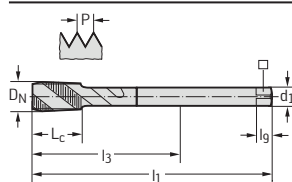


|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2056302 | ● | ● | ● | ● | ● | ● | ● |
| TIN EP2056305 | ● | ● | ● | ● | ● | ● | ● |

### DIN 376



| Designation   | DN   | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □    | l <sub>9</sub><br>mm | N |
|---------------|------|---------|----------------------|----------------------|----------------------|----------------------------|------|----------------------|---|
| EP2056302-M12 | M 12 | 1,75    | 110                  | 16                   | 83                   | 9                          | 7    | 10                   | 4 |
| EP2056302-M14 | M 14 | 2       | 110                  | 20                   | 81                   | 11                         | 9    | 12                   | 4 |
| EP2056302-M16 | M 16 | 2       | 110                  | 20                   | 68                   | 12                         | 9    | 12                   | 4 |
| EP2056302-M18 | M 18 | 2,5     | 125                  | 25                   | 81                   | 14                         | 11   | 14                   | 4 |
| EP2056302-M20 | M 20 | 2,5     | 140                  | 25                   | 95                   | 16                         | 12   | 15                   | 4 |
| EP2056302-M24 | M 24 | 3       | 160                  | 30                   | 113                  | 18                         | 14,5 | 17                   | 4 |
| EP2056302-M27 | M 27 | 3       | 160                  | 30                   | 97                   | 20                         | 16   | 19                   | 4 |
| EP2056302-M30 | M 30 | 3,5     | 180                  | 35                   | 115                  | 22                         | 18   | 21                   | 4 |
| EP2056302-M36 | M 36 | 4       | 200                  | 40                   | 131                  | 28                         | 22   | 25                   | 4 |
| EP2056302-M42 | M 42 | 4,5     | 200                  | 45                   | 102                  | 32                         | 24   | 27                   | 5 |
| EP2056302-M48 | M 48 | 5       | 250                  | 50                   | 147                  | 36                         | 29   | 32                   | 5 |
| EP2056302-M56 | M 56 | 5,5     | 250                  | 55                   | 120                  | 40                         | 32   | 35                   | 5 |
| EP2056302-M64 | M 64 | 6       | 315                  | 60                   | 178                  | 50                         | 39   | 42                   | 6 |
| EP2056305-M12 | M 12 | 1,75    | 110                  | 16                   | 83                   | 9                          | 7    | 10                   | 4 |
| EP2056305-M14 | M 14 | 2       | 110                  | 20                   | 81                   | 11                         | 9    | 12                   | 4 |
| EP2056305-M16 | M 16 | 2       | 110                  | 20                   | 68                   | 12                         | 9    | 12                   | 4 |
| EP2056305-M18 | M 18 | 2,5     | 125                  | 25                   | 81                   | 14                         | 11   | 14                   | 4 |
| EP2056305-M20 | M 20 | 2,5     | 140                  | 25                   | 95                   | 16                         | 12   | 15                   | 4 |
| EP2056305-M24 | M 24 | 3       | 160                  | 30                   | 113                  | 18                         | 14,5 | 17                   | 4 |



B4

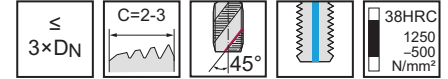
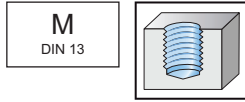
## HSS-E-PM machine taps

mm

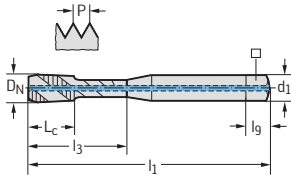
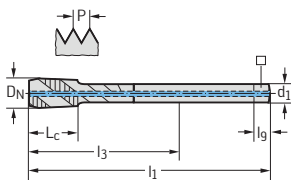
## Paradur® Eco Plus



– For long-chipping materials



|     | P  | M  | K  | N  | S  | H  | O  |
|-----|----|----|----|----|----|----|----|
| THL | ●● | ●● | ●● | ●● | ●● | ●● | ●● |

| ~DIN 371                                                                           |               | Designation | $D_N$ | P<br>mm | $l_1$<br>mm | $L_c$<br>mm | $l_3$<br>mm | $d_1$<br>h9<br>mm | $l_9$<br>mm | N |
|------------------------------------------------------------------------------------|---------------|-------------|-------|---------|-------------|-------------|-------------|-------------------|-------------|---|
|   | EP2051312-M4  | M 4         | 0,7   | 63      | 7           | 14,8        | 4,5         | 3,4               | 6           | 3 |
|                                                                                    | EP2051312-M5  | M 5         | 0,8   | 70      | 8           | 20,7        | 6           | 4,9               | 8           | 3 |
|                                                                                    | EP2051312-M6  | M 6         | 1     | 80      | 10          | 25          | 6           | 4,9               | 8           | 3 |
|                                                                                    | EP2051312-M8  | M 8         | 1,25  | 90      | 12          | 35          | 8           | 6,2               | 9           | 3 |
|                                                                                    | EP2051312-M10 | M 10        | 1,5   | 100     | 15          | 39          | 10          | 8                 | 11          | 3 |
|  | EP2056312-M12 | M 12        | 1,75  | 110     | 16          | 83          | 9           | 7                 | 10          | 4 |
|                                                                                    | EP2056312-M16 | M 16        | 2     | 110     | 20          | 68          | 12          | 9                 | 12          | 4 |
|                                                                                    | EP2056312-M20 | M 20        | 2,5   | 140     | 25          | 95          | 16          | 12                | 15          | 4 |
|                                                                                    | EP2056312-M24 | M 24        | 3     | 160     | 30          | 113         | 18          | 14,5              | 17          | 4 |

B4

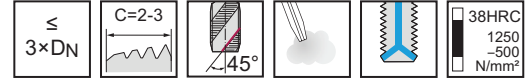
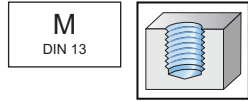
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus

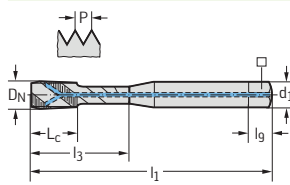


– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 371



#### Designation

EP2051342-M8

EP2051342-M10

DN

P

mm

l<sub>1</sub>

mm

L<sub>c</sub>

mm

l<sub>3</sub>

mm

d<sub>1</sub>

h9

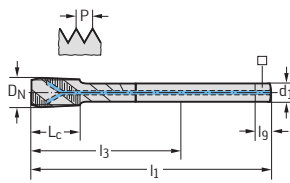
mm

□

l<sub>9</sub>

mm

N



EP2056342-M12

EP2056342-M16

M 12

M 16

1,75

2

110

110

16

20

83

68

9

12

7

9

10

12

4

4

B4

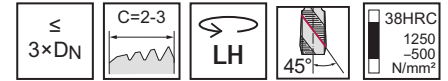
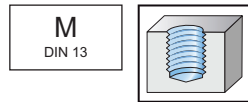
## HSS-E-PM machine taps

mm

## Paradur® Eco Plus

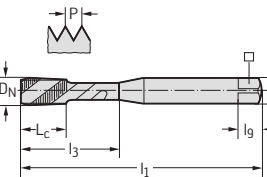
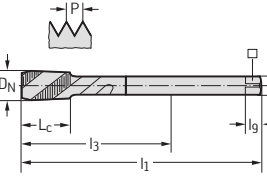


– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

~DIN 371

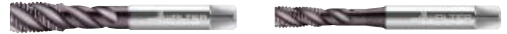
| Designation                                                                                      | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm |  | l <sub>9</sub><br>mm | N |
|--------------------------------------------------------------------------------------------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------|---|
|  EP2051382-M3   | M 3            | 0,5     | 56                   | 6                    | 11                   | 3,5                        | 2,7                                                                                 | 6                    | 3 |
| EP2051382-M4                                                                                     | M 4            | 0,7     | 63                   | 7                    | 14,8                 | 4,5                        | 3,4                                                                                 | 6                    | 3 |
| EP2051382-M5                                                                                     | M 5            | 0,8     | 70                   | 8                    | 20,7                 | 6                          | 4,9                                                                                 | 8                    | 3 |
| EP2051382-M6                                                                                     | M 6            | 1       | 80                   | 10                   | 25                   | 6                          | 4,9                                                                                 | 8                    | 3 |
| EP2051382-M8                                                                                     | M 8            | 1,25    | 90                   | 12                   | 35                   | 8                          | 6,2                                                                                 | 9                    | 3 |
| EP2051382-M10                                                                                    | M 10           | 1,5     | 100                  | 15                   | 39                   | 10                         | 8                                                                                   | 11                   | 3 |
|  EP2056382-M12 | M 12           | 1,75    | 110                  | 16                   | 83                   | 9                          | 7                                                                                   | 10                   | 4 |
| EP2056382-M14                                                                                    | M 14           | 2       | 110                  | 20                   | 81                   | 11                         | 9                                                                                   | 12                   | 4 |
| EP2056382-M16                                                                                    | M 16           | 2       | 110                  | 20                   | 68                   | 12                         | 9                                                                                   | 12                   | 4 |
| EP2056382-M18                                                                                    | M 18           | 2,5     | 125                  | 25                   | 81                   | 14                         | 11                                                                                  | 14                   | 4 |
| EP2056382-M20                                                                                    | M 20           | 2,5     | 140                  | 25                   | 95                   | 16                         | 12                                                                                  | 15                   | 4 |

B4

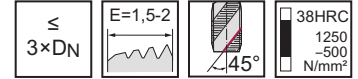
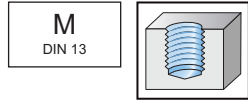
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus

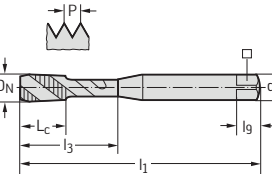


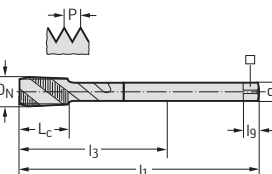
– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

~DIN 371

|                                                                                   | Designation   | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm |  | l <sub>g</sub><br>mm | N |
|-----------------------------------------------------------------------------------|---------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------|---|
|  | EP2051362-M4  | M 4            | 0,7     | 63                   | 7                    | 14,8                 | 4,5                        | 3,4                                                                                 | 6                    | 3 |
|                                                                                   | EP2051362-M5  | M 5            | 0,8     | 70                   | 8                    | 20,7                 | 6                          | 4,9                                                                                 | 8                    | 3 |
|                                                                                   | EP2051362-M6  | M 6            | 1       | 80                   | 10                   | 25                   | 6                          | 4,9                                                                                 | 8                    | 3 |
|                                                                                   | EP2051362-M8  | M 8            | 1,25    | 90                   | 12                   | 35                   | 8                          | 6,2                                                                                 | 9                    | 4 |
|                                                                                   | EP2051362-M10 | M 10           | 1,5     | 100                  | 15                   | 39                   | 10                         | 8                                                                                   | 11                   | 4 |

|                                                                                    |               |      |      |     |    |     |    |      |    |   |
|------------------------------------------------------------------------------------|---------------|------|------|-----|----|-----|----|------|----|---|
|  | EP2056362-M12 | M 12 | 1,75 | 110 | 16 | 83  | 9  | 7    | 10 | 4 |
|                                                                                    | EP2056362-M16 | M 16 | 2    | 110 | 20 | 68  | 12 | 9    | 12 | 4 |
|                                                                                    | EP2056362-M20 | M 20 | 2,5  | 140 | 25 | 95  | 16 | 12   | 15 | 4 |
|                                                                                    | EP2056362-M24 | M 24 | 3    | 160 | 30 | 113 | 18 | 14,5 | 17 | 5 |

B4



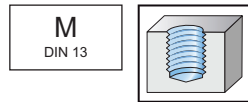
## HSS-E-PM machine taps

mm

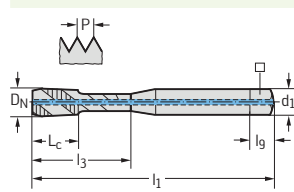
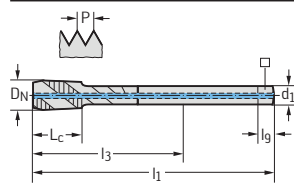
## Paradur® Eco Plus



– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

| ~DIN 371                                                                           |               | Designation | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □  | l <sub>9</sub><br>mm | N |
|------------------------------------------------------------------------------------|---------------|-------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|----|----------------------|---|
|   | EP2051352-M4  | M 4         | 0,7            | 63      | 7                    | 14,8                 | 4,5                  | 3,4                        | 6  | 3                    |   |
|                                                                                    | EP2051352-M5  | M 5         | 0,8            | 70      | 8                    | 20,7                 | 6                    | 4,9                        | 8  | 3                    |   |
|                                                                                    | EP2051352-M6  | M 6         | 1              | 80      | 10                   | 25                   | 6                    | 4,9                        | 8  | 3                    |   |
|                                                                                    | EP2051352-M8  | M 8         | 1,25           | 90      | 12                   | 35                   | 8                    | 6,2                        | 9  | 4                    |   |
|                                                                                    | EP2051352-M10 | M 10        | 1,5            | 100     | 15                   | 39                   | 10                   | 8                          | 11 | 4                    |   |
|  | EP2056352-M12 | M 12        | 1,75           | 110     | 16                   | 83                   | 9                    | 7                          | 10 | 4                    |   |
|                                                                                    | EP2056352-M16 | M 16        | 2              | 110     | 20                   | 68                   | 12                   | 9                          | 12 | 4                    |   |
|                                                                                    | EP2056352-M20 | M 20        | 2,5            | 140     | 25                   | 95                   | 16                   | 12                         | 15 | 4                    |   |

B4

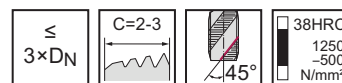
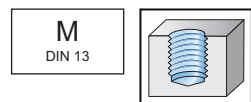
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus



– For long-chipping materials



|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2053302 | ● | ● | ● | ● | ● | ● | ● |
| TIN EP2053305 | ● | ● | ● | ● | ● | ● | ● |

| ~DIN 371 | Designation    | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|----------|----------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
|          | EP2053302-M2   | M 2            | 0,4     | 45                   | 4                    | 7,6                  | 2,8                        | 2,1 | 5                    | 3 |
|          | EP2053302-M2.5 | M 2.5          | 0,45    | 50                   | 4                    | 9,3                  | 2,8                        | 2,1 | 5                    | 3 |
|          | EP2053302-M3   | M 3            | 0,5     | 56                   | 6                    | 11                   | 3,5                        | 2,7 | 6                    | 3 |
|          | EP2053302-M4   | M 4            | 0,7     | 63                   | 7                    | 14,8                 | 4,5                        | 3,4 | 6                    | 3 |
|          | EP2053302-M5   | M 5            | 0,8     | 70                   | 8                    | 20,7                 | 6                          | 4,9 | 8                    | 3 |
|          | EP2053302-M6   | M 6            | 1       | 80                   | 10                   | 25                   | 6                          | 4,9 | 8                    | 3 |
|          | EP2053302-M8   | M 8            | 1,25    | 90                   | 12                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|          | EP2053302-M10  | M 10           | 1,5     | 100                  | 15                   | 39                   | 10                         | 8   | 11                   | 3 |
|          | EP2053305-M2   | M 2            | 0,4     | 45                   | 4                    | 7,6                  | 2,8                        | 2,1 | 5                    | 3 |
|          | EP2053305-M2.5 | M 2.5          | 0,45    | 50                   | 4                    | 9,3                  | 2,8                        | 2,1 | 5                    | 3 |
|          | EP2053305-M3   | M 3            | 0,5     | 56                   | 6                    | 11                   | 3,5                        | 2,7 | 6                    | 3 |
|          | EP2053305-M4   | M 4            | 0,7     | 63                   | 7                    | 14,8                 | 4,5                        | 3,4 | 6                    | 3 |
|          | EP2053305-M5   | M 5            | 0,8     | 70                   | 8                    | 20,7                 | 6                          | 4,9 | 8                    | 3 |
|          | EP2053305-M6   | M 6            | 1       | 80                   | 10                   | 25                   | 6                          | 4,9 | 8                    | 3 |
|          | EP2053305-M8   | M 8            | 1,25    | 90                   | 12                   | 35                   | 8                          | 6,2 | 9                    | 3 |
|          | EP2053305-M10  | M 10           | 1,5     | 100                  | 15                   | 39                   | 10                         | 8   | 11                   | 3 |

≤ M 2.5: Without thread taper

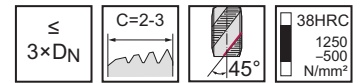
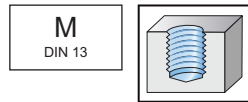
## HSS-E-PM machine taps

mm

## Paradur® Eco Plus



– For long-chipping materials



|               | P | M | K | N | S | H | O |
|---------------|---|---|---|---|---|---|---|
| THL EP2058302 | ● | ● | ● | ● |   |   |   |
| TIN EP2058305 | ● | ● | ● | ● |   |   |   |

## DIN 376

| Designation   | D <sub>N</sub> | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □ | l <sub>g</sub><br>mm | N |
|---------------|----------------|---------|----------------------|----------------------|----------------------|----------------------------|---|----------------------|---|
| EP2058302-M12 | M 12           | 1,75    | 110                  | 16                   | 83                   | 9                          | 7 | 10                   | 4 |
| EP2058302-M14 | M 14           | 2       | 110                  | 20                   | 81                   | 11                         | 9 | 12                   | 4 |
| EP2058302-M16 | M 16           | 2       | 110                  | 20                   | 68                   | 12                         | 9 | 12                   | 4 |
| EP2058305-M12 | M 12           | 1,75    | 110                  | 16                   | 83                   | 9                          | 7 | 10                   | 4 |
| EP2058305-M14 | M 14           | 2       | 110                  | 20                   | 81                   | 11                         | 9 | 12                   | 4 |
| EP2058305-M16 | M 16           | 2       | 110                  | 20                   | 68                   | 12                         | 9 | 12                   | 4 |

B4

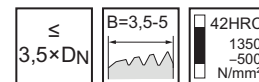
# HSS-E-PM machine taps

mm

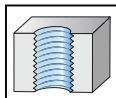
## Prototex® Eco Plus



– For long-chipping materials

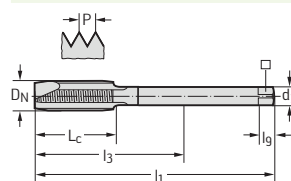

MF  
DIN 13

6HX



|     | P  | M  | K  | N  | S  | H  | O  |
|-----|----|----|----|----|----|----|----|
| THL | ●● | ●● | ●● | ●● | ●● | ●● | ●● |

### DIN 374



Designation

DN

P

l<sub>1</sub>

L<sub>c</sub>

l<sub>3</sub>

d<sub>1</sub>  
h9

□

l<sub>9</sub>

N

EP2126302-M6X0.75

MF 6x0.75

0,75

80

15

59

4,5

3,4

6

3

EP2126302-M8X1

MF 8x1

1

90

18

67

6

4,9

8

3

EP2126302-M10X1

MF 10x1

1

90

20

67

7

5,5

8

3

EP2126302-M10X1.25

MF 10x1.25

1,25

100

20

77

7

5,5

8

3

EP2126302-M12X1

MF 12x1

1

100

21

73

9

7

10

4

EP2126302-M12X1.25

MF 12x1.25

1,25

100

21

73

9

7

10

4

EP2126302-M12X1.5

MF 12x1.5

1,5

100

21

73

9

7

10

4

EP2126302-M14X1.5

MF 14x1.5

1,5

100

21

71

11

9

12

4

EP2126302-M16X1.5

MF 16x1.5

1,5

100

21

58

12

9

12

4

EP2126302-M18X1.5

MF 18x1.5

1,5

110

24

66

14

11

14

4

EP2126302-M20X1.5

MF 20x1.5

1,5

125

24

80

16

12

15

4

EP2126302-M22X1.5

MF 22x1.5

1,5

125

24

78

18

14,5

17

4

B4

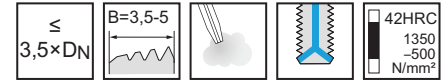
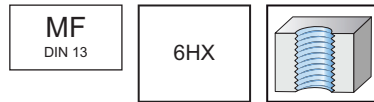
## HSS-E-PM machine taps

mm

### Prototex® Eco Plus

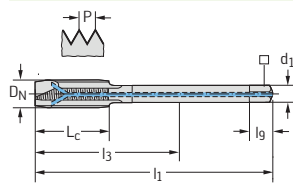


– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 374



| Designation        | DN         | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>9</sub><br>mm | N |
|--------------------|------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
| EP2126342-M8X1     | MF 8x1     | 1       | 90                   | 18                   | 67                   | 6                          | 4,9 | 5                    | 3 |
| EP2126342-M10X1    | MF 10x1    | 1       | 90                   | 20                   | 67                   | 7                          | 5,5 | 8                    | 3 |
| EP2126342-M10X1.25 | MF 10x1.25 | 1,25    | 100                  | 20                   | 77                   | 7                          | 5,5 | 8                    | 3 |
| EP2126342-M12X1    | MF 12x1    | 1       | 100                  | 21                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2126342-M12X1.25 | MF 12x1.25 | 1,25    | 100                  | 21                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2126342-M12X1.5  | MF 12x1.5  | 1,5     | 100                  | 21                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2126342-M14X1.5  | MF 14x1.5  | 1,5     | 100                  | 21                   | 71                   | 11                         | 9   | 12                   | 4 |
| EP2126342-M16X1.5  | MF 16x1.5  | 1,5     | 100                  | 21                   | 58                   | 12                         | 9   | 12                   | 4 |
| EP2126342-M18X1.5  | MF 18x1.5  | 1,5     | 110                  | 24                   | 66                   | 14                         | 11  | 14                   | 4 |
| EP2126342-M20X1.5  | MF 20x1.5  | 1,5     | 125                  | 24                   | 80                   | 16                         | 12  | 12                   | 4 |

B4

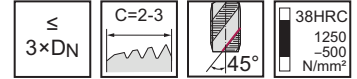
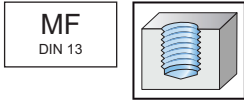
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus

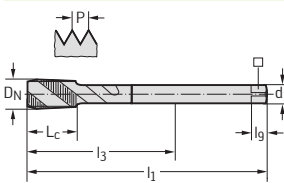


– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 374



| Designation        | DN         | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □    | l <sub>9</sub><br>mm | N |
|--------------------|------------|---------|----------------------|----------------------|----------------------|----------------------------|------|----------------------|---|
| EP2156302-M6X0.75  | MF 6x0.75  | 0,75    | 80                   | 10                   | 59                   | 4,5                        | 3,4  | 6                    | 3 |
| EP2156302-M8X1     | MF 8x1     | 1       | 90                   | 12                   | 67                   | 6                          | 4,9  | 8                    | 3 |
| EP2156302-M10X1    | MF 10x1    | 1       | 90                   | 12                   | 67                   | 7                          | 5,5  | 8                    | 3 |
| EP2156302-M10X1.25 | MF 10x1.25 | 1,25    | 100                  | 15                   | 77                   | 7                          | 5,5  | 8                    | 3 |
| EP2156302-M12X1    | MF 12x1    | 1       | 100                  | 13                   | 73                   | 9                          | 7    | 10                   | 4 |
| EP2156302-M12X1.25 | MF 12x1.25 | 1,25    | 100                  | 13                   | 73                   | 9                          | 7    | 10                   | 4 |
| EP2156302-M12X1.5  | MF 12x1.5  | 1,5     | 100                  | 13                   | 73                   | 9                          | 7    | 10                   | 4 |
| EP2156302-M14X1.25 | MF 14x1.25 | 1,25    | 100                  | 15                   | 71                   | 11                         | 9    | 12                   | 4 |
| EP2156302-M14X1.5  | MF 14x1.5  | 1,5     | 100                  | 15                   | 71                   | 11                         | 9    | 12                   | 4 |
| EP2156302-M16X1.5  | MF 16x1.5  | 1,5     | 100                  | 15                   | 58                   | 12                         | 9    | 12                   | 4 |
| EP2156302-M18X1.5  | MF 18x1.5  | 1,5     | 110                  | 17                   | 66                   | 14                         | 11   | 14                   | 4 |
| EP2156302-M20X1.5  | MF 20x1.5  | 1,5     | 125                  | 17                   | 80                   | 16                         | 12   | 15                   | 4 |
| EP2156302-M22X1.5  | MF 22x1.5  | 1,5     | 125                  | 18                   | 78                   | 18                         | 14,5 | 17                   | 4 |

B4

HSS-E-PM machine taps

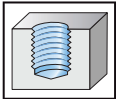
mm

Paradur® Eco Plus



– For long-chipping materials

MF  
DIN 13



$\leq 3 \times D_N$

$E=1,5-2$

$\angle 45^\circ$

38HRC  
1250  
-500  
N/mm<sup>2</sup>

|     | P  | M  | K  | N  | S | H | O |
|-----|----|----|----|----|---|---|---|
| THL | ●● | ●● | ●● | ●● |   |   |   |

| DIN 374 |                   | Designation | $D_N$ | P<br>mm | $l_1$<br>mm | $L_c$<br>mm | $l_3$<br>mm | $d_1$<br>h9<br>mm | $l_9$<br>mm | N |
|---------|-------------------|-------------|-------|---------|-------------|-------------|-------------|-------------------|-------------|---|
|         | EP2156362-M8X1    | MF 8x1      | 1     | 90      | 12          | 67          | 6           | 4,9               | 8           | 4 |
|         | EP2156362-M10X1   | MF 10x1     | 1     | 90      | 12          | 67          | 7           | 5,5               | 8           | 4 |
|         | EP2156362-M12X1.5 | MF 12x1.5   | 1,5   | 100     | 13          | 73          | 9           | 7                 | 10          | 4 |
|         | EP2156362-M14X1.5 | MF 14x1.5   | 1,5   | 100     | 15          | 71          | 11          | 9                 | 12          | 4 |

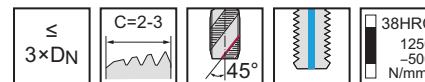
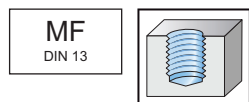
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus

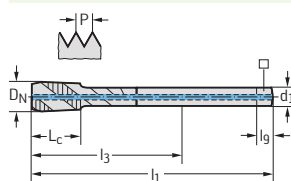


– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 374



| Designation        | DN         | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>9</sub><br>mm | N |
|--------------------|------------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
| EP2156312-M8X1     | MF 8x1     | 1       | 90                   | 12                   | 67                   | 6                          | 4,9 | 8                    | 3 |
| EP2156312-M10X1    | MF 10x1    | 1       | 90                   | 12                   | 67                   | 7                          | 5,5 | 8                    | 3 |
| EP2156312-M10X1.25 | MF 10x1.25 | 1,25    | 100                  | 15                   | 77                   | 7                          | 5,5 | 8                    | 3 |
| EP2156312-M12X1    | MF 12x1    | 1       | 100                  | 13                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2156312-M12X1.25 | MF 12x1.25 | 1,25    | 100                  | 13                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2156312-M12X1.5  | MF 12x1.5  | 1,5     | 100                  | 13                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2156312-M14X1.5  | MF 14x1.5  | 1,5     | 100                  | 15                   | 71                   | 11                         | 9   | 12                   | 4 |
| EP2156312-M16X1.5  | MF 16x1.5  | 1,5     | 100                  | 15                   | 58                   | 12                         | 9   | 12                   | 4 |
| EP2156312-M18X1.5  | MF 18x1.5  | 1,5     | 110                  | 17                   | 66                   | 14                         | 11  | 14                   | 4 |
| EP2156312-M20X1.5  | MF 20x1.5  | 1,5     | 125                  | 17                   | 80                   | 16                         | 12  | 15                   | 4 |



## HSS-E-PM machine taps

mm

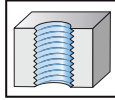
## Prototex® Eco Plus



– For long-chipping materials

**UNC**  
ASME B1.1

2B

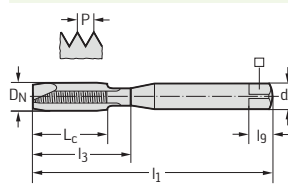

 $\leq$   
3,5×DN

B=3,5-5  

42HRC  
1350  
-500  
N/mm²

|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

## DIN 2184-1



Designation

DN-P

DN  
mml<sub>1</sub>  
mmL<sub>c</sub>  
mml<sub>3</sub>  
mmd<sub>1</sub>  
h9  
mm

□

l<sub>9</sub>  
mm

N

EP2221302-UNC2

UNC

#2-56

2,184

45

7

12

2,8

2,1

5

3

EP2221302-UNC4

UNC

#4-40

2,845

56

9

18

3,5

2,7

6

3

EP2221302-UNC6

UNC

#6-32

3,505

56

11

20

4

3

6

3

EP2221302-UNC8

UNC

#8-32

4,166

63

12

21

4,5

3,4

6

3

EP2221302-UNC10

UNC

#10-24

4,826

70

13

25

6

4,9

8

3

EP2221302-UNC1/4

UNC

1/4-20

6,35

80

15

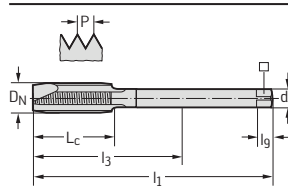
30

7

5,5

8

3



EP2226302-UNC5/16

UNC

5/16-18

7,938

90

18

67

6

4,9

8

3

EP2226302-UNC3/8

UNC

3/8-16

9,525

100

20

77

7

5,5

8

3

EP2226302-UNC1/2

UNC

1/2-13

12,7

110

23

83

9

7

10

4

EP2226302-UNC5/8

UNC

5/8-11

15,875

110

25

68

12

9

12

4

B4

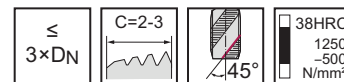
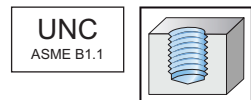
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus



– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

~DIN 2184-1

| Designation       | D <sub>N</sub> -P | D <sub>N</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|-------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
| EP2251302-UNC2    | UNC<br>#2-56      | 2,184                | 45                   | 4                    | 8,4                  | 2,8                        | 2,1 | 5                    | 3 |
| EP2251302-UNC4    | UNC<br>#4-40      | 2,845                | 56                   | 6                    | 11                   | 3,5                        | 2,7 | 6                    | 3 |
| EP2251302-UNC6    | UNC<br>#6-32      | 3,505                | 56                   | 6,5                  | 13,7                 | 4                          | 3   | 6                    | 3 |
| EP2251302-UNC8    | UNC<br>#8-32      | 4,166                | 63                   | 7                    | 17,8                 | 4,5                        | 3,4 | 6                    | 3 |
| EP2251302-UNC10   | UNC<br>#10-24     | 4,826                | 70                   | 8                    | 20,7                 | 6                          | 4,9 | 8                    | 3 |
| EP2251302-UNC1/4  | UNC<br>1/4-20     | 6,35                 | 80                   | 10                   | 27,3                 | 7                          | 5,5 | 8                    | 3 |
| EP2256302-UNC5/16 | UNC<br>5/16-18    | 7,938                | 90                   | 12                   | 67                   | 6                          | 4,9 | 8                    | 3 |
| EP2256302-UNC3/8  | UNC<br>3/8-16     | 9,525                | 100                  | 15                   | 77                   | 7                          | 5,5 | 8                    | 3 |
| EP2256302-UNC1/2  | UNC<br>1/2-13     | 12,7                 | 110                  | 18                   | 83                   | 9                          | 7   | 10                   | 4 |
| EP2256302-UNC5/8  | UNC<br>5/8-11     | 15,875               | 110                  | 20                   | 68                   | 12                         | 9   | 12                   | 4 |

UNC 2: Without thread taper

B4

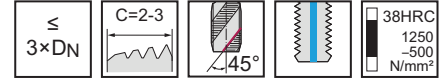
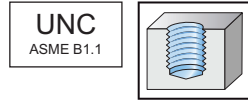
## HSS-E-PM machine taps

mm

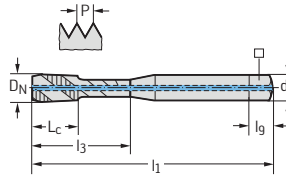
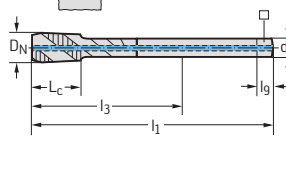
## Paradur® Eco Plus



– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

| ~DIN 2184-1                                                                        |                   | Designation    | D <sub>N</sub> -P | D <sub>N</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|------------------------------------------------------------------------------------|-------------------|----------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
|   | EP2251312-UNC1/4  | UNC<br>1/4-20  |                   | 6,35                 | 80                   | 10                   | 27,3                 | 7                          | 5,5 | 8                    | 3 |
|                                                                                    | EP2256312-UNC5/16 | UNC<br>5/16-18 |                   | 7,938                | 90                   | 12                   | 67                   | 6                          | 4,9 | 8                    | 3 |
|  | EP2256312-UNC3/8  | UNC<br>3/8-16  |                   | 9,525                | 100                  | 15                   | 77                   | 7                          | 5,5 | 8                    | 3 |
|                                                                                    | EP2256312-UNC1/2  | UNC<br>1/2-13  |                   | 12,7                 | 110                  | 18                   | 83                   | 9                          | 7   | 10                   | 4 |
|                                                                                    | EP2256312-UNC5/8  | UNC<br>5/8-11  |                   | 15,875               | 110                  | 20                   | 68                   | 12                         | 9   | 12                   | 4 |
|                                                                                    | EP2256312-UNC3/4  | UNC<br>3/4-10  |                   | 19,05                | 125                  | 25                   | 81                   | 14                         | 11  | 14                   | 4 |

B4

# HSS-E-PM machine taps

mm

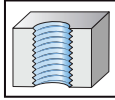
## Prototex® Eco Plus



– For long-chipping materials

UNF  
ASME B1.1

2B

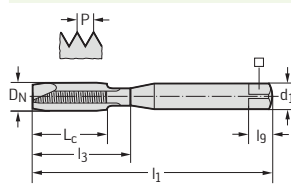

 $\leq 3,5 \times D_N$ 

B=3,5-5

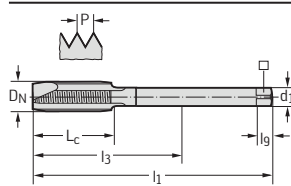
42HRC  
1350  
-500  
N/mm<sup>2</sup>

|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 2184-1



| Designation       | D <sub>N</sub> -P | D <sub>N</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|-------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
| EP2321302-UNF4    | UNF<br>#4-48      | 2,845                | 56                   | 9                    | 18                   | 3,5                        | 2,7 | 6                    | 3 |
| EP2321302-UNF6    | UNF<br>#6-40      | 3,505                | 56                   | 11                   | 20                   | 4                          | 3   | 6                    | 3 |
| EP2321302-UNF8    | UNF<br>#8-36      | 4,166                | 63                   | 12                   | 21                   | 4,5                        | 3,4 | 6                    | 3 |
| EP2321302-UNF10   | UNF<br>#10-32     | 4,826                | 70                   | 13                   | 25                   | 6                          | 4,9 | 8                    | 3 |
| EP2321302-UNF1/4  | UNF<br>1/4-28     | 6,35                 | 80                   | 15                   | 30                   | 7                          | 5,5 | 8                    | 3 |
| EP2326302-UNF5/16 | UNF<br>5/16-24    | 7,938                | 90                   | 18                   | 67                   | 6                          | 4,9 | 8                    | 3 |
| EP2326302-UNF3/8  | UNF<br>3/8-24     | 9,525                | 100                  | 20                   | 77                   | 7                          | 5,5 | 8                    | 3 |
| EP2326302-UNF1/2  | UNF<br>1/2-20     | 12,7                 | 100                  | 21                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2326302-UNF5/8  | UNF<br>5/8-18     | 15,875               | 100                  | 21                   | 58                   | 12                         | 9   | 12                   | 4 |



B4

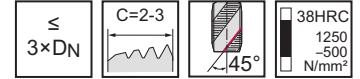
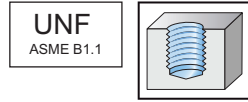
## HSS-E-PM machine taps

mm

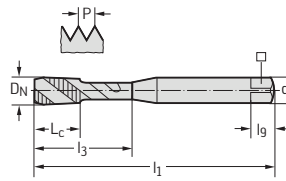
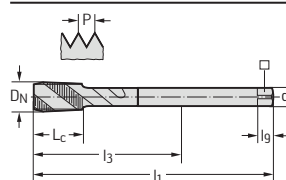
## Paradur® Eco Plus



– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

| ~DIN 2184-1                                                                        |                   | Designation    | D <sub>N</sub> -P | D <sub>N</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □  | l <sub>g</sub><br>mm | N |
|------------------------------------------------------------------------------------|-------------------|----------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|----|----------------------|---|
|   | EP2351302-UNF4    | UNF<br>#4-48   | 2,845             | 56                   | 6                    | 11                   | 3,5                  | 2,7                        | 6  | 3                    |   |
|                                                                                    | EP2351302-UNF6    | UNF<br>#6-40   | 3,505             | 56                   | 6,5                  | 13,1                 | 4                    | 3                          | 6  | 3                    |   |
|                                                                                    | EP2351302-UNF8    | UNF<br>#8-36   | 4,166             | 63                   | 7                    | 17,4                 | 4,5                  | 3,4                        | 6  | 3                    |   |
|                                                                                    | EP2351302-UNF10   | UNF<br>#10-32  | 4,826             | 70                   | 8                    | 20,7                 | 6                    | 4,9                        | 8  | 3                    |   |
|                                                                                    | EP2351302-UNF1/4  | UNF<br>1/4-28  | 6,35              | 80                   | 10                   | 25,9                 | 7                    | 5,5                        | 8  | 3                    |   |
|  | EP2356302-UNF5/16 | UNF<br>5/16-24 | 7,938             | 90                   | 12                   | 67                   | 6                    | 4,9                        | 8  | 3                    |   |
|                                                                                    | EP2356302-UNF3/8  | UNF<br>3/8-24  | 9,525             | 100                  | 15                   | 77                   | 7                    | 5,5                        | 8  | 3                    |   |
|                                                                                    | EP2356302-UNF1/2  | UNF<br>1/2-20  | 12,7              | 100                  | 13                   | 73                   | 9                    | 7                          | 10 | 4                    |   |
|                                                                                    | EP2356302-UNF5/8  | UNF<br>5/8-18  | 15,875            | 100                  | 15                   | 58                   | 12                   | 9                          | 12 | 4                    |   |

B4

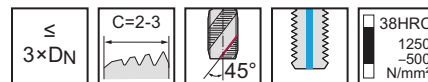
# HSS-E-PM machine taps

mm

## Paradur® Eco Plus



– For long-chipping materials



|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

~DIN 2184-1

| Designation       | D <sub>N</sub> -P | D <sub>N</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N |
|-------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|
| EP2351312-UNF1/4  | UNF<br>1/4-28     | 6,35                 | 80                   | 10                   | 25,9                 | 7                          | 5,5 | 8                    | 3 |
| EP2356312-UNF5/16 | UNF<br>5/16-24    | 7,938                | 90                   | 12                   | 67                   | 6                          | 4,9 | 8                    | 3 |
| EP2356312-UNF3/8  | UNF<br>3/8-24     | 9,525                | 100                  | 15                   | 77                   | 7                          | 5,5 | 8                    | 3 |
| EP2356312-UNF1/2  | UNF<br>1/2-20     | 12,7                 | 100                  | 13                   | 73                   | 9                          | 7   | 10                   | 4 |
| EP2356312-UNF5/8  | UNF<br>5/8-18     | 15,875               | 100                  | 15                   | 58                   | 12                         | 9   | 12                   | 4 |

B4

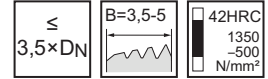
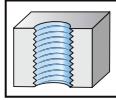
## HSS-E-PM machine taps

mm

## Prototex® Eco Plus

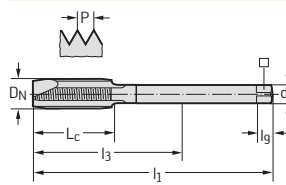


– For long-chipping materials

**G (BSP)**  
 DIN EN ISO 228


|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

## DIN 5156



| Designation    | D <sub>N</sub> -P | D <sub>N</sub><br>mm | Threads<br>per<br>inch | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □    | l <sub>9</sub><br>mm | N |
|----------------|-------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------------|------|----------------------|---|
| EP2426302-G1/8 | G 1/8-28          | 9,728                | 28                     | 90                   | 20                   | 67                   | 7                          | 5,5  | 8                    | 3 |
| EP2426302-G1/4 | G 1/4-19          | 13,157               | 19                     | 100                  | 21                   | 71                   | 11                         | 9    | 12                   | 4 |
| EP2426302-G3/8 | G 3/8-19          | 16,662               | 19                     | 100                  | 21                   | 58                   | 12                         | 9    | 12                   | 4 |
| EP2426302-G1/2 | G 1/2-14          | 20,955               | 14                     | 125                  | 24                   | 80                   | 16                         | 12   | 15                   | 4 |
| EP2426302-G5/8 | G 5/8-14          | 22,911               | 14                     | 125                  | 24                   | 78                   | 18                         | 14,5 | 17                   | 4 |
| EP2426302-G3/4 | G 3/4-14          | 26,441               | 14                     | 140                  | 26                   | 77                   | 20                         | 16   | 19                   | 5 |
| EP2426302-G1   | G 1"-11           | 33,249               | 11                     | 160                  | 28                   | 93                   | 25                         | 20   | 23                   | 5 |

# HSS-E-PM machine taps

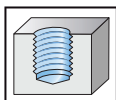
mm

## Paradur® Eco Plus



– For long-chipping materials

**G (BSP)**  
DIN EN ISO 228



$\leq$   
 $3 \times D_N$

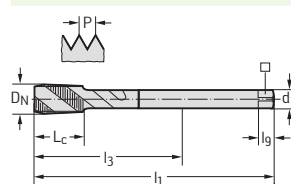
$C=2-3$

$\angle 45^\circ$

38HRC  
1250  
500  
N/mm<sup>2</sup>

|     | P | M | K | N | S | H | O |
|-----|---|---|---|---|---|---|---|
| THL | ● | ● | ● | ● | ● | ● | ● |

### DIN 5156



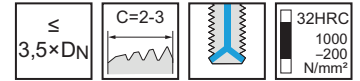
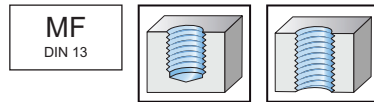
| Designation    | D <sub>N</sub> -P | D <sub>N</sub><br>mm | Threads<br>per<br>inch | l <sub>1</sub><br>mm | L <sub>C</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □    | l <sub>9</sub><br>mm | N |
|----------------|-------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------------|------|----------------------|---|
| EP2456302-G1/8 | G 1/8-28          | 9,728                | 28                     | 90                   | 12                   | 67                   | 7                          | 5,5  | 8                    | 3 |
| EP2456302-G1/4 | G 1/4-19          | 13,157               | 19                     | 100                  | 15                   | 71                   | 11                         | 9    | 12                   | 4 |
| EP2456302-G3/8 | G 3/8-19          | 16,662               | 19                     | 100                  | 15                   | 58                   | 12                         | 9    | 12                   | 4 |
| EP2456302-G1/2 | G 1/2-14          | 20,955               | 14                     | 125                  | 18                   | 80                   | 16                         | 12   | 15                   | 4 |
| EP2456302-G5/8 | G 5/8-14          | 22,911               | 14                     | 125                  | 18                   | 78                   | 18                         | 14,5 | 17                   | 4 |
| EP2456302-G3/4 | G 3/4-14          | 26,441               | 14                     | 140                  | 20                   | 77                   | 20                         | 16   | 19                   | 5 |
| EP2456302-G1   | G 1"-11           | 33,249               | 11                     | 160                  | 22                   | 93                   | 25                         | 20   | 23                   | 5 |



## HSS-E machine thread formers

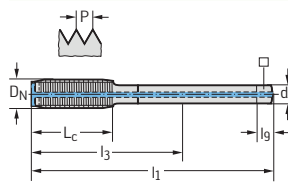
TC440 Supreme 

- For long-chipping materials
- For stainless steels when using emulsion

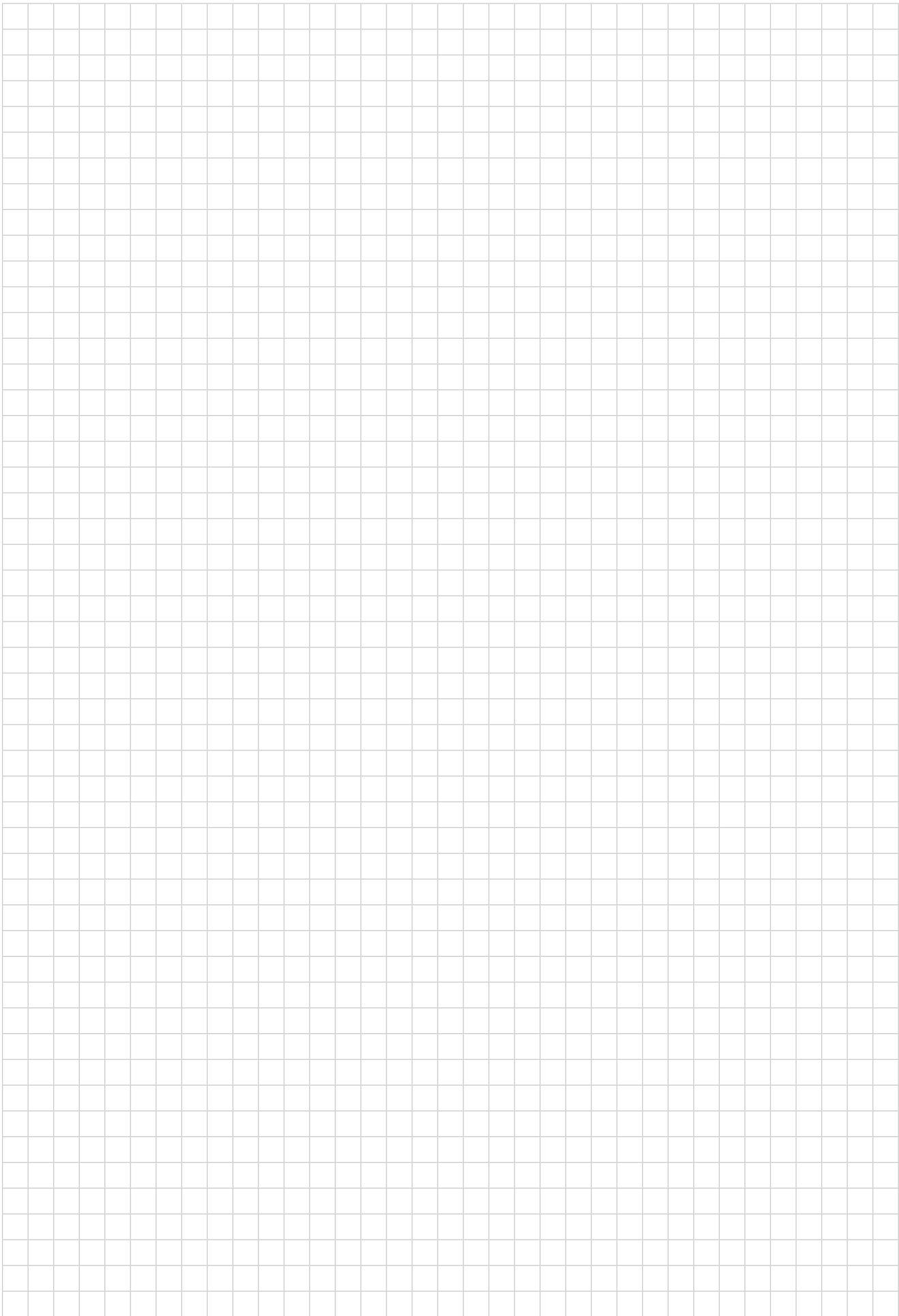


|        | P | M  | K | N | S | H | O |
|--------|---|----|---|---|---|---|---|
| WY80AD | ● | ●● | ● | ● | ● |   |   |

## DIN 2174



| Designation         | DN        | P<br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | d <sub>1</sub><br>h9<br>mm | □   | l <sub>g</sub><br>mm | N | WY80AD |
|---------------------|-----------|---------|----------------------|----------------------|----------------------|----------------------------|-----|----------------------|---|--------|
| TC440-M8X1-L2-      | MF 8x1    | 1       | 90                   | 12                   | 67                   | 6                          | 4,9 | 8                    | 5 | ✖      |
| TC440-M10X1-L2-     | MF 10x1   | 1       | 90                   | 12                   | 67                   | 7                          | 5,5 | 8                    | 5 | ✖      |
| TC440-M12X1.5-L2-   | MF 12x1.5 | 1,5     | 100                  | 13                   | 73                   | 9                          | 7   | 10                   | 5 | ✖      |
| TC440-M14X1.5-L2-   | MF 14x1.5 | 1,5     | 100                  | 15                   | 58                   | 11                         | 9   | 12                   | 6 | ✖      |
| TC440-M16X1.5-L2-   | MF 16x1.5 | 1,5     | 100                  | 15                   | 58                   | 12                         | 9   | 12                   | 6 | ✖      |
| ★ TC440-M18X1.5-L2- | MF 18x1.5 | 1,5     | 110                  | 17                   | 66                   | 14                         | 11  | 14                   | 6 | ✖      |

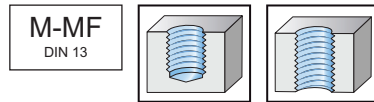


B6

## Solid carbide orbital thread milling cutters

TC630 Supreme 

– Universal orbital thread milling cutters

M-MF  
DIN 13

|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool            | Designation       | D <sub>N</sub> | P<br>mm | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|-----------------|-------------------|----------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
| DIN 6535 HA<br> | ★ TC630-M1.6-A0D- | M 1.6          | 0,35    | 1,2                  | 0,7                  | 3,73                 | 38                   | 10                   | 3                          | 4 | ✗      |
|                 | ★ TC630-M1.8-A0D- | M 1.8          | 0,35    | 1,35                 | 0,7                  | 3,78                 | 38                   | 10                   | 3                          | 4 | ✗      |
|                 | ★ TC630-M2-A0D-   | M 2            | 0,4     | 1,55                 | 1,2                  | 4,6                  | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M2.2-A0D- | M 2.2          | 0,45    | 1,65                 | 1,35                 | 4,63                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M2.5-A0D- | M 2.5          | 0,45    | 1,95                 | 1,35                 | 5,68                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M3-A0D-   | M 3            | 0,5     | 2,3                  | 1,5                  | 6,75                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M3.5-A0D- | M 3.5          | 0,6     | 2,7                  | 1,8                  | 7,3                  | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M4-A0D-   | M 4            | 0,7     | 3,1                  | 2,1                  | 9,05                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M4.5-A0D- | M 4.5          | 0,75    | 3,5                  | 2,25                 | 9,38                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M5-A0D-   | M 5            | 0,8     | 4                    | 2,4                  | 11,2                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M6-A0D-   | M 6            | 1       | 4,8                  | 3                    | 13,5                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M8-A0D-   | M 8            | 1,25    | 6,4                  | 3,75                 | 17,9                 | 63                   | 27                   | 8                          | 4 | ✗      |
|                 | ★ TC630-M10-A0D-  | M 10           | 1,5     | 8,2                  | 4,5                  | 22,3                 | 72                   | 32                   | 10                         | 5 | ✗      |
|                 | ★ TC630-M12-A0D-  | M 12           | 1,75    | 9,75                 | 5,25                 | 26,7                 | 72                   | 32                   | 10                         | 5 | ✗      |
| DIN 6535 HA<br> | ★ TC630-M5-A1D-   | M 5            | 0,8     | 4                    | 2,4                  | 11,2                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M6-A1D-   | M 6            | 1       | 4,8                  | 3                    | 13,5                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M8-A1D-   | M 8            | 1,25    | 6,4                  | 3,75                 | 17,9                 | 63                   | 27                   | 8                          | 4 | ✗      |
|                 | ★ TC630-M10-A1D-  | M 10           | 1,5     | 8,2                  | 4,5                  | 22,3                 | 72                   | 32                   | 10                         | 5 | ✗      |
|                 | ★ TC630-M12-A1D-  | M 12           | 1,75    | 9,75                 | 5,25                 | 26,7                 | 72                   | 32                   | 10                         | 5 | ✗      |

B6

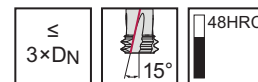
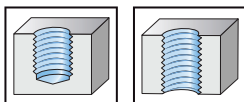
# Solid carbide orbital thread milling cutters

TC630 Supreme



– Universal orbital thread milling cutters

M-MF  
DIN 13



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool            | Designation       | D <sub>N</sub> | P<br>mm | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|-----------------|-------------------|----------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
| DIN 6535 HA<br> | ★ TC630-M1.6-A0F- | M 1.6          | 0,35    | 1,2                  | 0,7                  | 5,33                 | 38                   | 10                   | 3                          | 4 | ✗      |
|                 | ★ TC630-M1.8-A0F- | M 1.8          | 0,35    | 1,35                 | 0,7                  | 5,58                 | 38                   | 10                   | 3                          | 4 | ✗      |
|                 | ★ TC630-M2-A0F-   | M 2            | 0,4     | 1,55                 | 1,2                  | 6,6                  | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M2.2-A0F- | M 2.2          | 0,45    | 1,65                 | 1,35                 | 6,83                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M2.5-A0F- | M 2.5          | 0,45    | 1,95                 | 1,35                 | 8,18                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M3-A0F-   | M 3            | 0,5     | 2,3                  | 1,5                  | 9,75                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M3.5-A0F- | M 3.5          | 0,6     | 2,7                  | 1,8                  | 10,8                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M4-A0F-   | M 4            | 0,7     | 3,1                  | 2,1                  | 13,05                | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M4.5-A0F- | M 4.5          | 0,75    | 3,5                  | 2,25                 | 13,88                | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M5-A0F-   | M 5            | 0,8     | 4                    | 2,4                  | 16,2                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M6-A0F-   | M 6            | 1       | 4,8                  | 3                    | 19,5                 | 57                   | 22                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M8-A0F-   | M 8            | 1,25    | 6,4                  | 3,75                 | 25,88                | 63                   | 29                   | 8                          | 4 | ✗      |
| DIN 6535 HA<br> | ★ TC630-M5-A1F-   | M 5            | 0,8     | 4                    | 2,4                  | 16,2                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M6-A1F-   | M 6            | 1       | 4,8                  | 3                    | 19,5                 | 57                   | 22                   | 6                          | 4 | ✗      |
|                 | ★ TC630-M8-A1F-   | M 8            | 1,25    | 6,4                  | 3,75                 | 25,88                | 63                   | 29                   | 8                          | 4 | ✗      |

B6

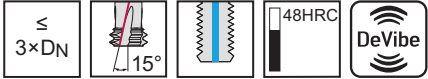
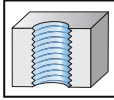
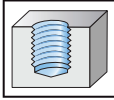
# Solid carbide orbital thread milling cutters

TC630 Supreme

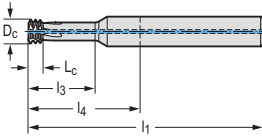


- Universal orbital thread milling cutters
- Best operational smoothness thanks to Walter DeVibe technology

M-MF  
DIN 13



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool                                                                              |             | Designation      | D <sub>N</sub> | P<br>mm | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|-----------------------------------------------------------------------------------|-------------|------------------|----------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
|  | DIN 6535 HA | ★ TC630-M8-A5F-  | M 8            | 1,25    | 6,4                  | 3,75                 | 25,88                | 63                   | 29                   | 8                          | 4 | ✖      |
|                                                                                   |             | ★ TC630-M10-A5F- | M 10           | 1,5     | 8,2                  | 4,5                  | 30,75                | 72                   | 34                   | 10                         | 5 | ✖      |
|                                                                                   |             | ★ TC630-M12-A5F- | M 12           | 1,75    | 9,75                 | 5,25                 | 36,88                | 80                   | 40                   | 10                         | 5 | ✖      |
|                                                                                   |             | ★ TC630-M14-A5F- | M 14           | 2       | 11,4                 | 6                    | 43                   | 92                   | 47                   | 12                         | 5 | ✖      |
|                                                                                   |             | ★ TC630-M16-A5F- | M 16           | 2       | 13,3                 | 6                    | 49                   | 102                  | 54                   | 16                         | 6 | ✖      |
|                                                                                   |             | ★ TC630-M18-A5F- | M 18           | 2,5     | 14,75                | 7,5                  | 55,25                | 108                  | 60                   | 16                         | 6 | ✖      |

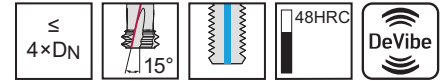
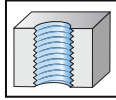
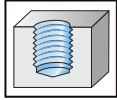
# Solid carbide orbital thread milling cutters

TC630 Supreme



- Universal orbital thread milling cutters
- Best operational smoothness thanks to Walter DeVibe technology

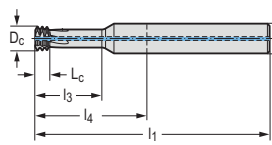
M-MF  
DIN 13



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

## Tool

|             | Designation      | D <sub>N</sub> | P<br>mm | D <sub>C</sub><br>mm | L <sub>C</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h8<br>mm | Z | WB10TJ |
|-------------|------------------|----------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
| DIN 6535 HA | ★ TC630-M8-A5H-  | M 8            | 1,25    | 6,4                  | 3,75                 | 32,63                | 72                   | 36                   | 8                          | 4 | ✗      |
|             | ★ TC630-M10-A5H- | M 10           | 1,5     | 8,2                  | 4,5                  | 40,75                | 85                   | 45                   | 10                         | 5 | ✗      |
|             | ★ TC630-M12-A5H- | M 12           | 1,75    | 9,75                 | 5,25                 | 48,88                | 92                   | 52                   | 10                         | 5 | ✗      |
|             | ★ TC630-M16-A5H- | M 16           | 2       | 13,3                 | 6                    | 65                   | 115                  | 70                   | 16                         | 6 | ✗      |



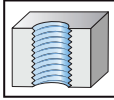
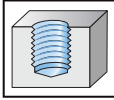
# Solid carbide orbital thread milling cutters

TC630 Supreme

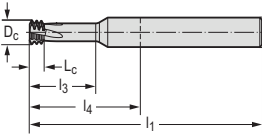


– Universal orbital thread milling cutters

MF  
DIN 13



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool                                                                              |             | Designation          | D <sub>N</sub> | P<br>mm | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|-----------------------------------------------------------------------------------|-------------|----------------------|----------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
|  | DIN 6535 HA | ★ TC630-M5X0.5-A0E-  | M5X0.5         | 0,5     | 4,3                  | 1,5                  | 12,75                | 57                   | 21                   | 6                          | 4 | ✖      |
|                                                                                   |             | ★ TC630-M6X0.75-A0E- | M 6X0.75       | 0,75    | 5                    | 2,25                 | 15,38                | 57                   | 21                   | 6                          | 4 | ✖      |
|                                                                                   |             | ★ TC630-M10X1-A0E-   | M 10X1         | 1       | 8,55                 | 3                    | 25,5                 | 72                   | 32                   | 10                         | 5 | ✖      |
|                                                                                   |             | ★ TC630-M10X1.25A0E- | M 10X1.2       | 1,25    | 8,35                 | 3,75                 | 25,63                | 72                   | 32                   | 10                         | 5 | ✖      |
|                                                                                   |             | ★ TC630-M14X1-A0E-   | M 14X1         | 1       | 12                   | 3                    | 35,5                 | 83                   | 38                   | 12                         | 5 | ✖      |
|                                                                                   |             | ★ TC630-M14X1.5-A0E- | M 14X1.5       | 1,5     | 11,9                 | 4,5                  | 35,75                | 83                   | 38                   | 12                         | 5 | ✖      |

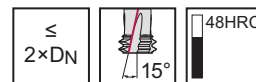
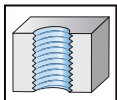
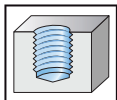
# Solid carbide orbital thread milling cutters

TC630 Supreme



– Universal orbital thread milling cutters

UNC  
ASME B1.1



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● | ● | ● |

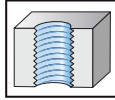
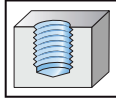
| Tool            | Designation          | D <sub>N</sub> -P | Threads per inch | D <sub>c</sub> mm | L <sub>c</sub> mm | l <sub>3</sub> mm | l <sub>1</sub> mm | l <sub>4</sub> mm | d <sub>1</sub> h6 mm | Z | WB10TJ |
|-----------------|----------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|---|--------|
| DIN 6535 HA<br> | ★ TC630-UNC1-A0D-    | UNC #1-64         | 64               | 1,4               | 0,79              | 3,91              | 38                | 10                | 3                    | 4 | ✗      |
|                 | ★ TC630-UNC2-A0D-    | UNC #2-56         | 56               | 1,6               | 1,36              | 4,59              | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNC4-A0D-    | UNC #4-40         | 40               | 2,1               | 1,91              | 6,7               | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNC6-A0D-    | UNC #6-32         | 32               | 2,6               | 2,38              | 8,3               | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNC8-A0D-    | UNC #8-32         | 32               | 3,25              | 2,38              | 8,73              | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNC10-A0D-   | UNC #10-24        | 24               | 3,55              | 3,18              | 11,3              | 57                | 21                | 6                    | 4 | ✗      |
| DIN 6535 HA<br> | ★ TC630-UNC1/4-A1D-  | UNC 1/4-20        | 20               | 4,85              | 3,81              | 14,7              | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNC5/16-A1D- | UNC 5/16-18       | 18               | 6,2               | 4,23              | 18,1              | 63                | 27                | 8                    | 4 | ✗      |



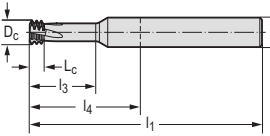
## Solid carbide orbital thread milling cutters

TC630 Supreme 

– Universal orbital thread milling cutters

**UNC**  
ASME B1.1


|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool                                                                                             | Designation          | D <sub>N</sub> -P | Threads<br>per<br>inch | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|--------------------------------------------------------------------------------------------------|----------------------|-------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
|                                                                                                  |                      |                   |                        |                      |                      |                      |                      |                      |                            |   |        |
| DIN 6535 HA<br> | ★ TC630-UNC1-A0F-    | UNC<br>#1-64      | 64                     | 1,4                  | 0,79                 | 5,76                 | 38                   | 10                   | 3                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC2-A0F-    | UNC<br>#2-56      | 56                     | 1,6                  | 1,36                 | 7,25                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC3-A0F-    | UNC<br>#3-48      | 48                     | 1,85                 | 1,59                 | 7,81                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC4-A0F-    | UNC<br>#4-40      | 40                     | 2,1                  | 1,91                 | 9,5                  | 57                   | 21                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC6-A0F-    | UNC<br>#6-32      | 32                     | 2,6                  | 2,38                 | 11,75                | 57                   | 21                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC8-A0F-    | UNC<br>#8-32      | 32                     | 3,25                 | 2,38                 | 13,7                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC10-A0F-   | UNC<br>#10-24     | 24                     | 3,55                 | 3,18                 | 16,1                 | 57                   | 21                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC1/4-A0F-  | UNC<br>1/4-20     | 20                     | 4,85                 | 3,81                 | 21                   | 57                   | 24                   | 6                          | 4 | ✗      |
|                                                                                                  | ★ TC630-UNC5/16-A0F- | UNC<br>5/16-18    | 18                     | 6,2                  | 4,23                 | 25,95                | 63                   | 29                   | 8                          | 4 | ✗      |

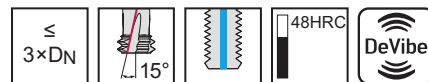
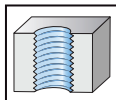
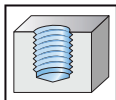
# Solid carbide orbital thread milling cutters

TC630 Supreme



- Universal orbital thread milling cutters
- Best operational smoothness thanks to Walter DeVibe technology

UNC  
ASME B1.1



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool            |   | Designation        | D <sub>N</sub> -P | Threads per inch | D <sub>c</sub> mm | L <sub>c</sub> mm | l <sub>3</sub> mm | l <sub>1</sub> mm | l <sub>4</sub> mm | d <sub>1</sub> h6 mm | Z | WB10TJ |
|-----------------|---|--------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|---|--------|
| DIN 6535 HA<br> | ★ | TC630-UNC5/16-A5F- | UNC 5/16-18       | 18               | 6,2               | 4,23              | 25,95             | 63                | 29                | 8                    | 4 | ✗      |
|                 | ★ | TC630-UNC3/8-A5F-  | UNC 3/8-16        | 16               | 7,55              | 4,76              | 29,37             | 68                | 32                | 8                    | 5 | ✗      |
|                 | ★ | TC630-UNC1/2-A5F-  | UNC 1/2-13        | 13               | 10,25             | 5,86              | 39,08             | 89                | 44                | 12                   | 5 | ✗      |
|                 | ★ | TC630-UNC5/8-A5F-  | UNC 5/8-11        | 11               | 12,9              | 6,93              | 48,78             | 103               | 55                | 16                   | 5 | ✗      |
|                 | ★ | TC630-UNC3/4-A5F-  | UNC 3/4-10        | 10               | 15,7              | 7,62              | 58,42             | 110               | 62                | 16                   | 6 | ✗      |

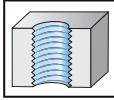
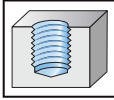
# Solid carbide orbital thread milling cutters

TC630 Supreme

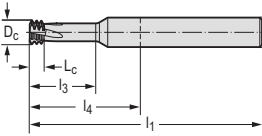
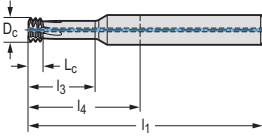


– Universal orbital thread milling cutters

UNF  
ASME B1.1



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool                                                                               |             | Designation          | D <sub>N</sub> -P | Threads<br>per<br>inch | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|------------------------------------------------------------------------------------|-------------|----------------------|-------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
|   | DIN 6535 HA | ★ TC630-UNF10-A0D-   | UNF<br>#10-32     | 32                     | 3,85                 | 2,38                 | 10,9                 | 57                   | 21                   | 6                          | 4 | ✖      |
|                                                                                    | DIN 6535 HA | ★ TC630-UNF1/4-A1D-  | UNF<br>1/4-28     | 28                     | 5,25                 | 2,72                 | 14,1                 | 57                   | 21                   | 6                          | 4 | ✖      |
|  |             | ★ TC630-UNF5/16-A1D- | UNF<br>5/16-24    | 24                     | 6,55                 | 3,18                 | 17,5                 | 63                   | 27                   | 8                          | 4 | ✖      |
|                                                                                    |             | ★ TC630-UNF3/8-A1D-  | UNF<br>3/8-24     | 24                     | 8                    | 3,18                 | 20,7                 | 63                   | 27                   | 8                          | 5 | ✖      |

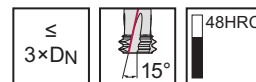
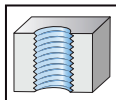
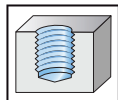
# Solid carbide orbital thread milling cutters

TC630 Supreme



– Universal orbital thread milling cutters

UNF  
ASME B1.1



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool            | Designation          | D <sub>N</sub> -P | Threads per inch | D <sub>c</sub> mm | L <sub>c</sub> mm | l <sub>3</sub> mm | l <sub>1</sub> mm | l <sub>4</sub> mm | d <sub>1</sub> h6 mm | Z | WB10TJ |
|-----------------|----------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|---|--------|
| DIN 6535 HA<br> | ★ TC630-UNF1-A0F-    | UNF #1-72         | 72               | 1,4               | 0,71              | 5,74              | 38                | 10                | 3                    | 4 | ✗      |
|                 | ★ TC630-UNF5-A0F-    | UNF #5-44         | 44               | 2,45              | 1,73              | 9,82              | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNF6-A0F-    | UNF #6-40         | 40               | 2,75              | 1,91              | 11,5              | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNF8-A0F-    | UNF #8-36         | 36               | 3,25              | 2,12              | 12,85             | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNF10-A0F-   | UNF #10-32        | 32               | 3,85              | 2,38              | 15,7              | 57                | 21                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNF1/4-A0F-  | UNF 1/4-28        | 28               | 5,25              | 2,72              | 20,45             | 57                | 22                | 6                    | 4 | ✗      |
|                 | ★ TC630-UNF5/16-A0F- | UNF 5/16-24       | 24               | 6,55              | 3,18              | 25,4              | 63                | 28                | 8                    | 4 | ✗      |

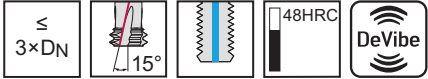
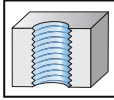
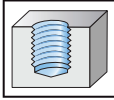
Solid carbide orbital thread milling cutters

TC630 Supreme



- Universal orbital thread milling cutters
- Best operational smoothness thanks to Walter DeVibe technology

UNF  
ASME B1.1



|        | P | M | K | N | S | H | O |
|--------|---|---|---|---|---|---|---|
| WB10TJ | ● | ● | ● | ● | ● |   | ● |

| Tool | Designation          | Threads           |             |                      |                      |                      |                      |                      | d <sub>1</sub><br>h6<br>mm | Z | WB10TJ |
|------|----------------------|-------------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
|      |                      | D <sub>N</sub> -P | per<br>inch | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm |                            |   |        |
|      | ★ TC630-UNF7/16-A5F- | UNF<br>7/16-20    | 20          | 9,4                  | 3,81                 | 33,98                | 77                   | 37                   | 10                         | 5 | ✗      |
|      | ★ TC630-UNF9/16-A5F- | UNF<br>9/16-18    | 18          | 12                   | 4,23                 | 43,57                | 91                   | 46                   | 12                         | 5 | ✗      |
|      | ★ TC630-UNF3/4-A5F-  | UNF<br>3/4-16     | 16          | 16,6                 | 4,76                 | 57,95                | 110                  | 62                   | 18                         | 6 | ✗      |

# Solid carbide orbital thread milling cutters

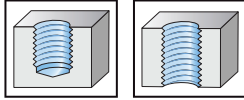
TC630 Supreme



- Specialist for the aerospace industry
- Ideal for engine components

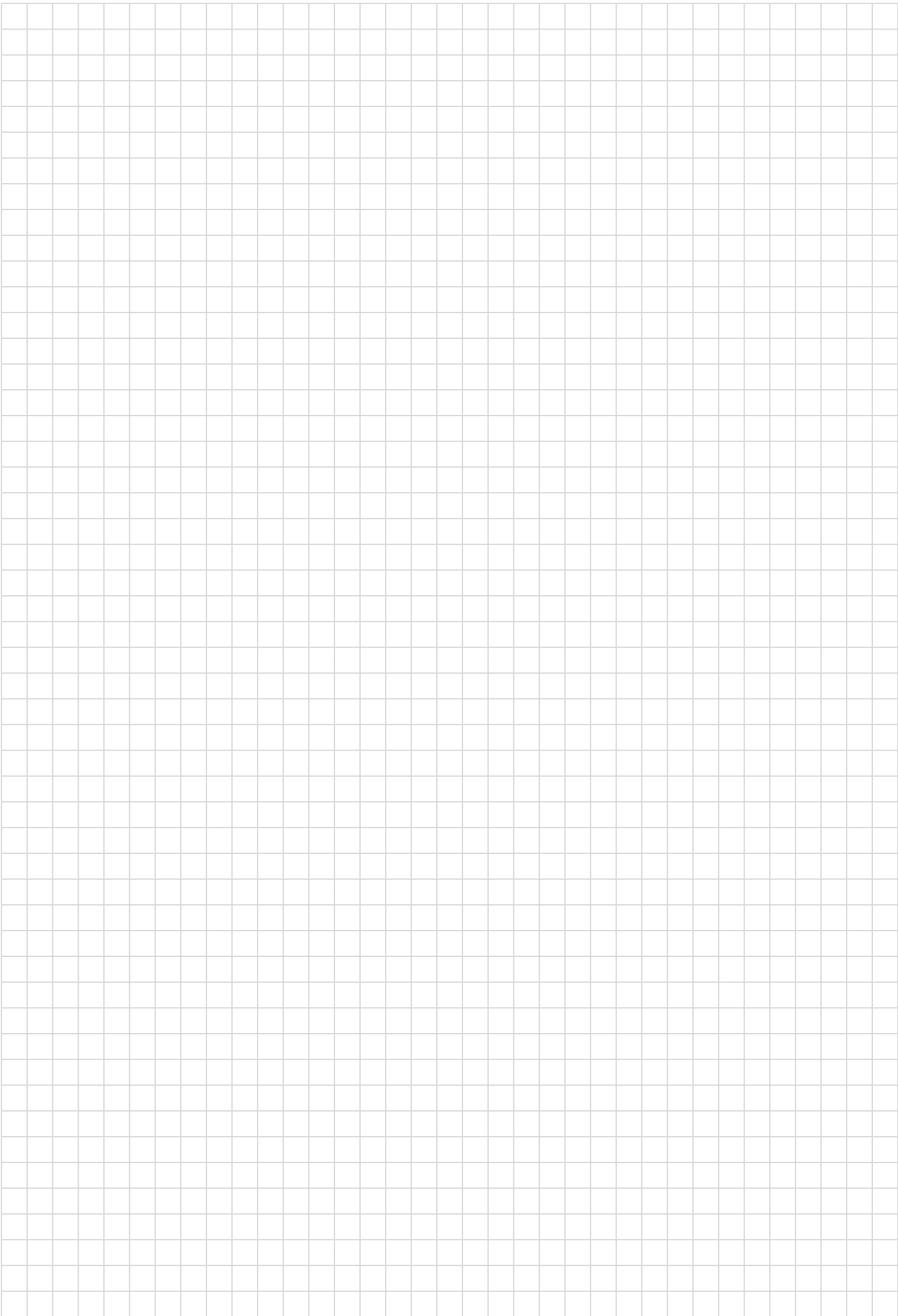


STI-UNF  
NASM 33537



|        | P | M  | K | N | S  | H | O |
|--------|---|----|---|---|----|---|---|
| WB10RA | ● | ●● | ● | ● | ●● |   | ● |

| Tool            | Designation          | D <sub>N</sub> -P | Threads<br>per<br>inch | D <sub>c</sub><br>mm | L <sub>c</sub><br>mm | l <sub>3</sub><br>mm | l <sub>1</sub><br>mm | l <sub>4</sub><br>mm | d <sub>1</sub><br>h6<br>mm | Z | WB10RA |
|-----------------|----------------------|-------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------------|---|--------|
|                 |                      |                   |                        |                      |                      |                      |                      |                      |                            |   |        |
| DIN 6535 HA<br> | ★ TC630-SUNF10-A0D-  | STIUNF<br>#10-32  | 32                     | 4,85                 | 2,38                 | 12,12                | 57                   | 21                   | 6                          | 4 | ✗      |
|                 | ★ TC630-SUNF1/4-A0D- | STIUNF<br>1/4-28  | 28                     | 6,3                  | 2,72                 | 15,52                | 63                   | 27                   | 8                          | 4 | ✗      |
|                 | ★ TC630-SUNF5/16A0D- | STIUNF<br>5/16-24 | 24                     | 7,85                 | 3,17                 | 19,16                | 63                   | 27                   | 8                          | 5 | ✗      |
|                 | ★ TC630-SUNF3/8-A0D- | STIUNF<br>3/8-24  | 24                     | 9,35                 | 3,17                 | 22,33                | 72                   | 32                   | 10                         | 5 | ✗      |



B 6

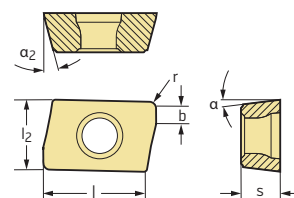




### Milling tools with indexable inserts – C2

|                                  |                                          |     |
|----------------------------------|------------------------------------------|-----|
| Indexable inserts for milling    | Positive indexable inserts               | 186 |
|                                  | Negative indexable inserts               | 201 |
|                                  | Indexable inserts for tangential fitting | 205 |
| Indexable insert milling cutters | High-feed milling cutters                | 208 |
|                                  | Shoulder milling cutters                 | 210 |
|                                  | Copy milling cutters                     | 234 |

# Positive rhombic ACGT / ACMT Tiger-tec® Gold



## Indexable inserts

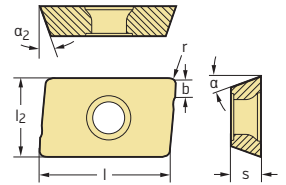
|                                                                                     | Designation     | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | α  | α <sub>2</sub> | b<br>mm | P<br>HC |         |         |         |         | M<br>HC |         | K<br>HC |        |         |         | N<br>HC HW |         | S<br>HC |       |         |         |         |
|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|----|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|------------|---------|---------|-------|---------|---------|---------|
|                                                                                     |                 |                 |                         |         |                      |         |         |    |                |         | WKP 25S | WKP 35G | WKP 35S | WSP 45G | WSP 45S | WSM 35S | WSP 45G | WSP 45S | WAK 15 | WKK 25S | WKP 25S | WKP 35G    | WKP 35S | WXN 15  | WK 10 | WSM 35S | WSP 45G | WSP 45S |
|    | ACGT060204R-G65 | G               | 2                       | 6,7     | 4,4                  | 2,38    | 0,4     | 7° | 15°            | 0,9     | ☺       | ☺       | ☺       | ☹       | ☹       | ☺       | ☹       | ☹       | ☺      | ☺       | ☺       |            |         | ☺       | ☹     | ☹       |         |         |
|    | ACGT060204R-M85 | G               | 2                       | 6,7     | 4,4                  | 2,38    | 0,4     | 7° | 15°            | 0,9     |         |         |         |         |         |         |         |         |        |         |         | ☺          | ☺       |         |       |         |         |         |
|    | ACMT060202R-G55 | M               | 2                       | 6,7     | 4,4                  | 2,38    | 0,2     | 7° | 15°            | 1       |         | ☺       | ☺       | ☺       | ☺       |         | ☺       | ☺       |        |         | ☺       | ☺          |         |         |       | ☺       | ☺       |         |
|                                                                                     | ACMT060204R-G55 | M               | 2                       | 6,7     | 4,4                  | 2,38    | 0,4     | 7° | 15°            | 0,9     | ☺       | ☺       | ☺       | ☺       | ☺       | ☺       | ☺       | ☺       | ☺      | ☺       | ☺       |            |         |         | ☺     | ☺       | ☺       |         |
|                                                                                     | ACMT060208R-G55 | M               | 2                       | 6,7     | 4,4                  | 2,38    | 0,8     | 7° | 15°            | 0,8     |         | ☺       | ☺       | ☺       | ☺       |         | ☺       | ☺       |        |         | ☺       | ☺          |         |         |       | ☺       | ☺       | ☺       |
|                                                                                     | ACMT060212R-G55 | M               | 2                       | 6,7     | 4,4                  | 2,38    | 1,2     | 7° | 15°            | 0,6     |         | ☺       | ☺       | ☺       | ☺       |         | ☺       | ☺       |        |         | ☺       | ☺          |         |         |       | ☺       | ☺       | ☺       |
|                                                                                     | ACMT060216R-G55 | M               | 2                       | 6,7     | 4,4                  | 2,38    | 1,6     | 7° | 15°            | 0,1     |         |         | ☺       | ☺       | ☺       |         | ☺       | ☺       |        |         | ☺       | ☺          |         |         |       | ☺       | ☺       | ☺       |
|  | ACMT060204R-K55 | M               | 2                       | 6,7     | 4,4                  | 2,38    | 0,4     | 7° | 15°            | 0,9     |         | ☺       | ☺       | ☹       | ☹       | ☺       | ☹       | ☹       |        |         | ☺       | ☺          |         |         | ☺     | ☹       | ☹       |         |

HC = Coated carbide  
HW = Uncoated carbide

# Positive rhombic

## ADMT

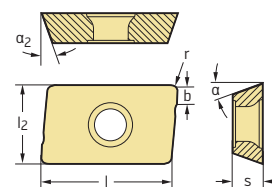
### Tiger-tec® Gold



#### Indexable inserts

|                                                                                   | Designation     | Tolerance class | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | r mm | α   | α <sub>2</sub> | b mm | P                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M       |                                                                                     |                                                                                     |                                                                                     | K                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | S                                                                                   |                                                                                     |         |         |    |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|------|-------------------|------|------|-----|----------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|---------|----|--|--|--|
|                                                                                   |                 |                 |                         |      |                   |      |      |     |                |      | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC      |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |         |         | HC |  |  |  |
|                                                                                   |                 |                 |                         |      |                   |      |      |     |                |      | WKP 25S                                                                             | WKP 35G                                                                             | WKP 35S                                                                             | WSP 45G                                                                             | WSP 45S                                                                             | WSM 35S | WSM 45X                                                                             | WSP 45G                                                                             | WSP 45S                                                                             | WAK 15                                                                              | WKK 25S                                                                             | WKP 25S                                                                             | WKP 35G                                                                             | WKP 35S                                                                             | WSM 35S                                                                             | WSM 45X                                                                             | WSP 45G | WSP 45S |    |  |  |  |
|  | ADMT080304R-D56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 0,4  | 15° | 20°            | 1,2  |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT120408R-D56 | M               | 2                       | 13,6 | 8,4               | 4,76 | 0,8  | 15° | 20°            | 1,2  |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |                                                                                     |         |         |    |  |  |  |
|                                                                                   | ADMT160608R-D56 | M               | 2                       | 17,5 | 10,8              | 6,15 | 0,8  | 15° | 20°            | 1,6  |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |                                                                                     |         |         |    |  |  |  |
|                                                                                   | ADMT180712R-D56 | M               | 2                       | 19   | 14,5              | 7,04 | 1,2  | 15° | 17°            | 1,8  |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |                                                                                     |         |         |    |  |  |  |
|  | ADMT080302R-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 0,2  | 15° | 20°            | 1,2  |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT080304L-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 0,4  | 15° | 20°            | 1,2  |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT080304R-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 0,4  | 15° | 20°            | 1,2  |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |                                                                                     |         |         |    |  |  |  |
|                                                                                   | ADMT080308L-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 0,8  | 15° | 20°            | 1,2  |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT080308R-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 0,8  | 15° | 20°            | 1,2  |    |    |    |    |    |         |    |    |    |    |    |    |    |    |    |                                                                                     |         |         |    |  |  |  |
|                                                                                   | ADMT080312R-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 1,2  | 15° | 20°            | 1    |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT080316R-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 1,6  | 15° | 20°            | 1    |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT080320R-F56 | M               | 2                       | 9,52 | 6,75              | 3,35 | 2    | 15° | 20°            | 1    |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT10T304R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 0,4  | 15° | 15°            | 1,2  |    |    |    |    |    |         |                                                                                     |    |    |    |    |    |    |    |    |    |         |         |    |  |  |  |
|                                                                                   | ADMT10T308R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 0,8  | 15° | 15°            | 1,2  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |                                                                                     |         |         |    |  |  |  |
|                                                                                   | ADMT10T312R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 1,2  | 15° | 15°            | 1,2  |  |  |  |  |  |         |                                                                                     |  |  |  |  |  |  |  |  |  |         |         |    |  |  |  |
|                                                                                   | ADMT10T316R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 1,6  | 15° | 15°            | 1,2  |  |  |  |  |  |         |                                                                                     |  |  |  |  |  |  |  |  |  |         |         |    |  |  |  |
|                                                                                   | ADMT10T320R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 2    | 15° | 15°            | 1    |  |  |  |  |  |         |                                                                                     |  |  |  |  |  |  |  |  |  |         |         |    |  |  |  |
|                                                                                   | ADMT10T325R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 2,5  | 15° | 15°            | 1    |  |  |  |  |  |         |                                                                                     |  |  |  |  |  |  |  |  |  |         |         |    |  |  |  |
|                                                                                   | ADMT10T330R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 3    | 15° | 15°            | 0,8  |  |  |  |  |  |         |                                                                                     |  |  |  |  |  |  |  |  |  |         |         |    |  |  |  |
|                                                                                   | ADMT10T332R-F56 | M               | 2                       | 11,3 | 7,25              | 3,8  | 3,2  | 15° | 15°            | 0,8  |  |  |  |  |  |         |                                                                                     |  |  |  |  |  |  |  |  |  |         |         |    |  |  |  |
|                                                                                   | ADMT120404R-F56 | M               | 2                       | 13,6 | 8,4               | 4,76 | 0,4  | 15° | 20°            | 1,2  |  |  |  |  |  |         |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |         |         |    |  |  |  |

# Positive rhombic ADMT Tiger-tec® Gold

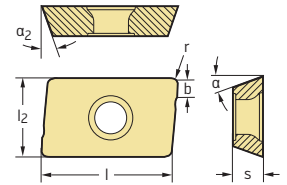


## Indexable inserts

|                                                                                   | Designation     | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | α   | α <sub>2</sub> | b<br>mm | P       |         |         |         |         | M       |         |         |         | K      |         |         |         | S       |         |         |         |         |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|-----|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                                                                   |                 |                 |                         |         |                      |         |         |     |                |         | HC      |         |         |         |         | HC      |         |         |         | HC     |         |         |         | HC      |         |         |         |         |
|                                                                                   |                 |                 |                         |         |                      |         |         |     |                |         | WKP 25S | WKP 35G | WKP 35S | WSP 45G | WSP 45S | WSM 35S | WSM 45X | WSP 45G | WSP 45S | WAK 15 | WKK 25S | WKP 25S | WKP 35G | WKP 35S | WSM 35S | WSM 45X | WSP 45G | WSP 45S |
|  | ADMT160632R-F56 | M               | 2                       | 17,5    | 10,8                 | 6,15    | 3,2     | 15° | 20°            | 1,2     |         | OK      | OK      | OK      | OK      | OK      | OK      | OK      | OK      |        |         | OK      | OK      | OK      | OK      | OK      | OK      |         |
|                                                                                   | ADMT160640L-F56 | M               | 2                       | 17,5    | 10,8                 | 6,15    | 4       | 15° | 20°            | 1       |         | OK      | OK      |         | OK      |         |         | OK      |         |        |         | OK      | OK      |         |         |         | OK      |         |
|                                                                                   | ADMT160640R-F56 | M               | 2                       | 17,5    | 10,8                 | 6,15    | 4       | 15° | 20°            | 1       |         | OK      | OK      | OK      | OK      | OK      | OK      |         |         |        |         | OK      | OK      | OK      | OK      | OK      |         |         |
|                                                                                   | ADMT160650R-F56 | M               | 2                       | 17,5    | 10,8                 | 6,15    | 5       | 15° | 20°            |         |         | OK      | OK      | OK      | OK      | OK      | OK      |         |         |        |         | OK      | OK      | OK      | OK      | OK      |         |         |
|                                                                                   | ADMT160660R-F56 | M               | 2                       | 17,5    | 10,8                 | 6,15    | 6       | 15° | 20°            |         |         | OK      | OK      | OK      | OK      | OK      | OK      |         |         |        |         | OK      | OK      | OK      | OK      | OK      |         |         |
|                                                                                   | ADMT180712R-F56 | M               | 2                       | 19      | 14,5                 | 7,04    | 1,2     | 15° | 17°            | 1,8     | OK      | OK      | OK      | OK      | OK      |         | OK      |         |         |        | OK      | OK      |         |         | OK      | OK      |         |         |
|  | ADMT080304R-G56 | M               | 2                       | 9,52    | 6,75                 | 3,35    | 0,4     | 15° | 20°            | 1,2     |         | OK      | OK      |         | OK      | OK      |         |         |         |        |         | OK      | OK      |         |         |         | OK      |         |
|                                                                                   | ADMT10T308R-G56 | M               | 2                       | 11,3    | 7,25                 | 3,8     | 0,8     | 15° | 15°            | 1,2     |         | OK      | OK      |         | OK      | OK      |         |         |         |        |         | OK      | OK      |         |         |         | OK      |         |
|                                                                                   | ADMT120408R-G56 | M               | 2                       | 13,6    | 8,4                  | 4,76    | 0,8     | 15° | 20°            | 1,2     |         | OK      | OK      | OK      | OK      | OK      |         |         |         |        |         | OK      | OK      | OK      | OK      | OK      |         |         |
|                                                                                   | ADMT160608R-G56 | M               | 2                       | 17,5    | 10,8                 | 6,15    | 0,8     | 15° | 20°            | 1,6     |         | OK      | OK      | OK      | OK      | OK      | OK      |         |         |        |         | OK      | OK      | OK      | OK      | OK      |         |         |

HC = Coated carbide

# Positive rhombic ADGT Tiger-tec® Gold

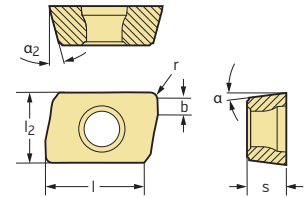


## Indexable inserts

|                                                                                     | Designation     | Tolerance class | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | r mm | α   | α <sub>2</sub> | b mm | P      |        |        |        | M      |        |        | K      |        |        |        | S      |        |        |
|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|------|-------------------|------|------|-----|----------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                     |                 |                 |                         |      |                   |      |      |     |                |      | HC     |        |        |        | HC     |        |        | HC     |        |        |        | HC     |        |        |
|                                                                                     |                 |                 |                         |      |                   |      |      |     |                |      | WKP25S | WKP35G | WKP35S | WSP45G | WSM35S | WSP45G | WSP45S | WKK25S | WKP25S | WKP35G | WKP35S | WSM35S | WSP45G | WSP45S |
|    | ADGT0803PER-D51 | G               | 2                       | 9,52 | 6,75              | 3,35 | 0,4  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1204PER-D51 | G               | 2                       | 13,6 | 8,4               | 4,76 | 0,8  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1606PER-D51 | G               | 2                       | 17,5 | 10,8              | 6,15 | 0,8  | 15° | 20°            | 1,6  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1807PER-D51 | G               | 2                       | 19   | 14,5              | 7,94 | 1,2  | 15° | 17°            | 1,8  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|    | ADGT1204PER-D56 | G               | 2                       | 13,6 | 8,4               | 4,76 | 0,8  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1606PER-D56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 0,8  | 15° | 20°            | 1,6  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1807PER-D56 | G               | 2                       | 19   | 14,5              | 7,94 | 1,2  | 15° | 17°            | 1,8  | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     |                 |                 |                         |      |                   |      |      |     |                |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|    | ADGT10T3PER-D67 | G               | 2                       | 11,3 | 7,25              | 3,8  | 0,8  | 15° | 15°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT120416R-D67 | G               | 2                       | 13,6 | 8,4               | 4,76 | 1,6  | 15° | 20°            | 1    | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1204PER-D67 | G               | 2                       | 13,6 | 8,4               | 4,76 | 0,8  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT160616R-D67 | G               | 2                       | 17,5 | 10,8              | 6,15 | 1,6  | 15° | 20°            | 1    | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1606PER-D67 | G               | 2                       | 17,5 | 10,8              | 6,15 | 0,8  | 15° | 20°            | 1,6  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     |                 |                 |                         |      |                   |      |      |     |                |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|   | ADGT0803PER-F56 | G               | 2                       | 9,52 | 6,75              | 3,35 | 0,4  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT120404R-F56 | G               | 2                       | 13,6 | 8,4               | 4,76 | 0,4  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT120430R-F56 | G               | 2                       | 13,6 | 8,4               | 4,76 | 3    | 15° | 20°            | 0,8  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT120440R-F56 | G               | 2                       | 13,6 | 8,4               | 4,76 | 4    | 15° | 20°            | 0,4  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1204PER-F56 | G               | 2                       | 13,6 | 8,4               | 4,76 | 0,8  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT160612R-F56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 1,2  | 15° | 20°            | 1,6  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT160616R-F56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 1,6  | 15° | 20°            | 1,4  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT160620R-F56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 2    | 15° | 20°            | 1,4  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT160632R-F56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 3,2  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT160640R-F56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 4    | 15° | 20°            | 1    | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1606PER-F56 | G               | 2                       | 17,5 | 10,8              | 6,15 | 0,8  | 15° | 20°            | 1,6  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     |                 |                 |                         |      |                   |      |      |     |                |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     |                 |                 |                         |      |                   |      |      |     |                |      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|  | ADGT10T3PER-G77 | G               | 2                       | 11,3 | 7,25              | 3,8  | 0,8  | 15° | 15°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1204PER-G77 | G               | 2                       | 13,6 | 8,4               | 4,76 | 0,8  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |
|                                                                                     | ADGT1606PER-G77 | G               | 2                       | 17,5 | 10,8              | 6,15 | 0,8  | 15° | 20°            | 1,2  | ☞      | ☞      | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      | ☞      | ☞      |        | ☞      | ☞      |

HC = Coated carbide

# Positive rhombic BCGT / BCHT / BCMT Tiger-tec® Gold

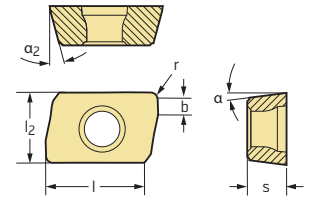


## Indexable inserts

|                                                                                     | Designation     | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | α   | α <sub>2</sub> | b<br>mm | P      |        |        |        |        | M      |        |        | K      |       |        |        |        | N      |       | S    |        |        |        |
|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|-----|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|------|--------|--------|--------|
|                                                                                     |                 |                 |                         |         |                      |         |         |     |                |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WKK25S | WKP25S | WKP35G | WKP35S | WKN15 | WK10 | WSM35S | WSM45X | WSP45G |
|    | BCGT090304R-G55 | G               | 2                       | 10.3    | 6.3                  | 3.21    | 0.4     | 7°  | 15°            | 1.2     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕     | ⊕    | ⊕      | ⊕      | ⊕      |
|                                                                                     | BCGT120408R-G55 | G               | 2                       | 13.8    | 7.6                  | 4.8     | 0.8     | 7°  | 15°            | 1.3     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕     | ⊕    | ⊕      | ⊕      | ⊕      |
|                                                                                     | BCGT160508R-G55 | G               | 2                       | 17.3    | 9.9                  | 5.75    | 0.8     | 7°  | 15°            | 2       | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕     | ⊕    | ⊕      | ⊕      | ⊕      |
|    | BCGT090304R-K85 | G               | 2                       | 10.3    | 6.3                  | 3.21    | 0.4     | 7°  | 15°            | 1.2     |        |        |        |        |        |        |        |        |        |       |        |        | ⊕      | ⊕      |       |      |        |        |        |
|    | BCHT120404R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 0.4     | 7°  | 15°            | 1.7     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120408R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 0.8     | 7°  | 15°            | 1.3     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120412R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 1.2     | 7°  | 15°            | 1.2     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120416R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 1.6     | 7°  | 15°            | 1.1     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120420R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 2       | 7°  | 15°            | 1.2     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120425R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 2.5     | 7°  | 15°            | 1       |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120430R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 3       | 7°  | 15°            | 0.7     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT120440R-K85 | H               | 2                       | 13.8    | 7.6                  | 4.8     | 4       | 7°  | 15°            | 0.4     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT160508R-K85 | H               | 2                       | 17.3    | 9.9                  | 5.75    | 0.8     | 7°  | 15°            | 2       |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT160512R-K85 | H               | 2                       | 17.3    | 9.9                  | 5.75    | 1.2     | 7°  | 15°            | 1.7     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT160516R-K85 | H               | 2                       | 17.3    | 9.9                  | 5.75    | 1.6     | 7°  | 15°            | 1.7     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT160520R-K85 | H               | 2                       | 17.3    | 9.9                  | 5.75    | 2       | 7°  | 15°            | 1.5     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
|                                                                                     | BCHT160525R-K85 | H               | 2                       | 17.3    | 9.9                  | 5.75    | 2.5     | 7°  | 15°            | 1.4     |        |        |        |        |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        |        |        |
| BCHT160530R-K85                                                                     | H               | 2               | 17.3                    | 9.9     | 5.75                 | 3       | 7°      | 15° | 1.2            |         |        |        |        |        |        |        |        |        |        |       | ⊕      | ⊕      |        |        |       |      |        |        |        |
| BCHT160540R-K85                                                                     | H               | 2               | 17.3                    | 9.9     | 5.75                 | 4       | 7°      | 15° | 1.1            |         |        |        |        |        |        |        |        |        |        |       | ⊕      | ⊕      |        |        |       |      |        |        |        |
|  | BCMT090304R-F55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 0.4     | 7°  | 15°            | 1.2     | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      |        |        |       | ⊕    | ⊕      |        |        |
|                                                                                     | BCMT120408R-F55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 0.8     | 7°  | 15°            | 1.3     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      |        |        |       | ⊕    | ⊕      |        |        |
|                                                                                     | BCMT160508R-F55 | M               | 2                       | 17.3    | 9.9                  | 5.75    | 0.8     | 7°  | 15°            | 2       | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      |        |        |       | ⊕    | ⊕      |        |        |
|  | BCMT090302R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 0.2     | 7°  | 15°            | 1.4     |        | ⊕      | ⊕      | ⊕      |        |        |        |        |        |       |        |        |        |        |       |      |        |        |        |
|                                                                                     | BCMT090304R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 0.4     | 7°  | 15°            | 1.2     | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |        | ⊕     | ⊕      | ⊕      |        |        | ⊕     | ⊕    |        |        |        |
|                                                                                     | BCMT090308R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 0.8     | 7°  | 15°            | 0.8     |        | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      |        |       |        | ⊕      | ⊕      |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT090312R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 1.2     | 7°  | 15°            | 0.4     |        | ⊕      | ⊕      | ⊕      |        |        |        |        |        |       |        | ⊕      | ⊕      |        |       |      |        | ⊕      | ⊕      |
|                                                                                     | BCMT090316R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 1.6     | 7°  | 15°            | 0.4     |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕      |       |        |        | ⊕      | ⊕      |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT090320R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 2       | 7°  | 15°            | 0.4     |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕      |       |        |        |        | ⊕      | ⊕     |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT090330R-G55 | M               | 2                       | 10.3    | 6.3                  | 3.21    | 3       | 7°  | 15°            | 0.4     |        |        |        |        |        |        | ⊕      |        |        |       |        |        |        |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT120404R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 0.4     | 7°  | 15°            | 1.3     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      |       |        | ⊕      | ⊕      |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT120408R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 0.8     | 7°  | 15°            | 1.3     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕     | ⊕      | ⊕      |        |        | ⊕     | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT120412R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 1.2     | 7°  | 15°            | 1.2     |        |        | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      |       |        |        | ⊕      | ⊕      |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT120416R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 1.6     | 7°  | 15°            | 1.1     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT120420R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 2       | 7°  | 15°            | 1.2     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT120425R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 2.5     | 7°  | 15°            | 1       |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT120430R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 3       | 7°  | 15°            | 0.7     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT120432R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 3.2     | 7°  | 15°            | 0.5     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT120440R-G55 | M               | 2                       | 13.8    | 7.3                  | 4.8     | 4       | 7°  | 15°            | 0.4     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT160508R-G55 | M               | 2                       | 17.3    | 9.9                  | 5.75    | 0.8     | 7°  | 15°            | 2       | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕     | ⊕      | ⊕      |        |        | ⊕     | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT160512R-G55 | M               | 2                       | 17.3    | 9.9                  | 5.75    | 1.2     | 7°  | 15°            | 1.7     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT160516R-G55 | M               | 2                       | 17.3    | 9.9                  | 5.75    | 1.6     | 7°  | 15°            | 1.5     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT160520R-G55 | M               | 2                       | 17.3    | 9.9                  | 5.75    | 2       | 7°  | 15°            | 1.5     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT160525R-G55 | M               | 2                       | 17.3    | 9.9                  | 5.75    | 2.5     | 7°  | 15°            | 1.4     |        |        | ⊕      | ⊕      | ⊕      |        |        |        | ⊕      | ⊕     |        |        |        |        |       |      | ⊕      | ⊕      |        |

HC = Coated carbide  
HW = Uncoated carbide

# Positive rhombic BCGT / BCHT / BCMT Tiger-tec® Gold



## Indexable inserts

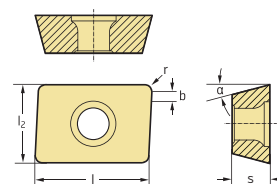
|                                                                                   | Designation     | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | α  | α <sub>2</sub> | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |        |        |        |        | N     |      | S      |        |        |        |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|----|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|------|--------|--------|--------|--------|
|                                                                                   |                 |                 |                         |         |                      |         |         |    |                |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WKK25S | WKP25S | WKP35G | WKP35S | WXN15 | WK10 | WSM35S | WSM45X | WSP45G | WSP45S |
|  | BCMT160530R-G55 | M               | 2                       | 17,3    | 9,9                  | 5,75    | 3       | 7° | 15°            | 1,2     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        | ⊗      | ⊗      |        |       |        | ⊗      | ⊗      | ⊗      |       |      |        | ⊗      | ⊗      | ⊗      |
|                                                                                   | BCMT160532R-G55 | M               | 2                       | 17,3    | 9,9                  | 5,75    | 3,2     | 7° | 15°            | 1,1     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        | ⊗      | ⊗      |        |       |        | ⊗      | ⊗      | ⊗      |       |      |        | ⊗      | ⊗      | ⊗      |
|                                                                                   | BCMT160540R-G55 | M               | 2                       | 17,3    | 9,9                  | 5,75    | 4       | 7° | 15°            | 1,1     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        | ⊗      | ⊗      |        |       |        | ⊗      | ⊗      | ⊗      |       |      |        | ⊗      | ⊗      | ⊗      |
|                                                                                   | BCMT160550R-G55 | M               | 2                       | 17,3    | 9,9                  | 5,75    | 5       | 7° | 15°            | 0,7     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        | ⊗      | ⊗      |        |       |        | ⊗      | ⊗      | ⊗      |       |      |        | ⊗      | ⊗      | ⊗      |
|                                                                                   | BCMT160560R-G55 | M               | 2                       | 17,3    | 9,9                  | 5,75    | 6       | 7° | 15°            | 0,1     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        | ⊗      | ⊗      |        |       |        | ⊗      | ⊗      | ⊗      |       |      |        | ⊗      | ⊗      | ⊗      |
|  | BCMT090304R-K55 | M               | 2                       | 10,3    | 6,3                  | 3,21    | 0,4     | 7° | 15°            | 1,2     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        | ⊗      |        |       |        | ⊗      | ⊗      |        |       | ⊗    |        | ⊗      |        |        |
|                                                                                   | BCMT120408R-K55 | M               | 2                       | 13,8    | 7,3                  | 4,8     | 0,8     | 7° | 15°            | 1,3     | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        |        |       |        | ⊗      | ⊗      |        |       | ⊗    |        | ⊗      |        |        |
|                                                                                   | BCMT160508R-K55 | M               | 2                       | 17,3    | 9,9                  | 5,75    | 0,8     | 7° | 15°            | 2       | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      | ⊗      |        |        |       |        | ⊗      | ⊗      |        |       | ⊗    | ⊗      | ⊗      |        |        |

HC = Coated carbide  
HW = Uncoated carbide

# Positive rhombic

## LDMT

### Tiger-tec® Gold



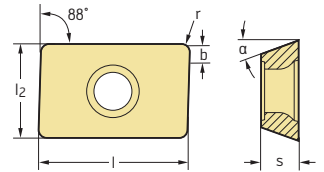
#### Indexable inserts

| Designation                                                                       |                 | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | α   | b<br>mm | P      |        |        |        |        | M      |        |        | K     |        |        |        | S      |        |        |        |   |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|-----|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|---|
|                                                                                   |                 |                 |                         |         |                      |         |         |     |         | HC     |        |        |        |        | HC     |        |        | HC    |        |        |        | HC     |        |        |        |   |
|                                                                                   |                 |                 |                         |         |                      |         |         |     |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSP45G | WSP45S | WAK15 | WKK25S | WKP25S | WKP35G | WKP35S | WSM35S | WSP45G | WSP45S |   |
|  | LDMT08T204R-D51 | M               | 2                       | 8,88    | 6,1                  | 2,58    | 0,4     | 15° | 0,8     | ☺      | ☺      | ☺      | ☺      | ☺      |        |        | ☺      |       |        | ☺      | ☺      | ☺      | ☺      |        |        | ☺ |
|                                                                                   | LDMT14T308R-D51 | M               | 2                       | 14,1    | 9,68                 | 4,08    | 0,8     | 15° | 1,2     | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |        | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺ |
|                                                                                   | LDMT170408R-D51 | M               | 2                       | 17,24   | 11,78                | 4,92    | 0,8     | 15° | 1,6     | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |        | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺ |
|                                                                                   | LDMT170412R-D51 | M               | 2                       | 17,24   | 11,78                | 4,92    | 1,2     | 15° | 1,6     | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        | ☺     |        |        | ☺      | ☺      | ☺      | ☺      |        | ☺ |
|  | LDMT08T204R-D57 | M               | 2                       | 8,88    | 6,1                  | 2,58    | 0,4     | 15° | 0,8     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |        | ☺     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺ |
|                                                                                   | LDMT14T308R-D57 | M               | 2                       | 14,1    | 9,68                 | 4,08    | 0,8     | 15° | 1,2     | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |        | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺ |
|                                                                                   | LDMT170408R-D57 | M               | 2                       | 17,24   | 11,78                | 4,92    | 0,8     | 15° | 1,6     | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |        | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺ |
|                                                                                   | LDMT170412R-D57 | M               | 2                       | 17,24   | 11,78                | 4,92    | 1,2     | 15° | 1,6     | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        | ☺     |        |        | ☺      | ☺      | ☺      | ☺      |        | ☺ |
|  | LDMT08T204R-F57 | M               | 2                       | 8,88    | 6,1                  | 2,58    | 0,4     | 15° | 0,8     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |        | ☺     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☺ |
|                                                                                   | LDMT14T308R-F57 | M               | 2                       | 14,1    | 9,68                 | 4,08    | 0,8     | 15° | 1,2     | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |   |
|                                                                                   | LDMT170408R-F57 | M               | 2                       | 17,24   | 11,78                | 4,92    | 0,8     | 15° | 1,6     | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |   |
|                                                                                   | LDMT170412R-F57 | M               | 2                       | 17,24   | 11,78                | 4,92    | 1,2     | 15° | 1,6     | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        | ☺     |        |        | ☺      | ☺      | ☺      | ☺      |        | ☺ |

HC = Coated carbide



## Positive rhombic LPMT Tiger-tec® Gold

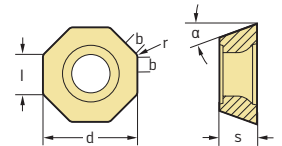


### Indexable inserts

|  | Designation     | Tolerance class | Number of cutting edges | l mm  | l <sub>2</sub> mm | s mm | r mm | α   | b mm | P      |        |        |        | M      |        | K      |        | S      |        |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|-------|-------------------|------|------|-----|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                   |                 |                 |                         |       |                   |      |      |     |      | HC     |        |        |        | HC     |        | HC     |        | HC     |        |
|                                                                                   |                 |                 |                         |       |                   |      |      |     |      | WKP25S | WKP35S | WSP45G | WSP45S | WSP45G | WSP45S | WKP25S | WKP35S | WSP45G | WSP45S |
|                                                                                   | LPMT070304R-D51 | M               | 2                       | 7,94  | 6,35              | 3,18 | 0,4  | 11° | 1,2  |        |        |        |        |        |        |        |        |        |        |
|                                                                                   | LPMT15T308R-D51 | M               | 2                       | 15    | 9,52              | 3,97 | 0,8  | 11° | 1,4  |        |        |        |        |        |        |        |        |        |        |
|                                                                                   | LPMT150412R-D51 | M               | 2                       | 15,88 | 12,7              | 4,76 | 1,2  | 11° | 1,6  |        |        |        |        |        |        |        |        |        |        |
|                                                                                   | LPMT150612R-D51 | M               | 2                       | 15,88 | 12,7              | 6,35 | 1,2  | 11° |      |        |        |        |        |        |        |        |        |        |        |

HC = Coated carbide

## Positive octagonal ODHT Tiger-tec® Gold

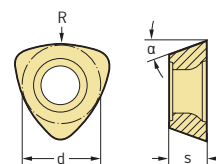


### Indexable inserts

|  | Designation     | Tolerance class | Number of cutting edges | d mm  | l mm | s mm | r mm | α   | b mm | P      |        | M      |        | S      |        |
|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|-------|------|------|------|-----|------|--------|--------|--------|--------|--------|--------|
|                                                                                     |                 |                 |                         |       |      |      |      |     |      | HC     |        | HC     |        | HC     |        |
|                                                                                     |                 |                 |                         |       |      |      |      |     |      | WSP45G | WSP45S | WSP45G | WSP45S | WSP45G | WSP45S |
|                                                                                     | ODHT0504ZZN-G77 | H               | 8                       | 12,7  | 5,26 | 4,76 | 0,8  | 15° | 1,6  |        |        |        |        |        |        |
|                                                                                     | ODHT0605ZZN-G77 | H               | 8                       | 15,88 | 6,58 | 5,56 | 0,8  | 15° | 1,6  |        |        |        |        |        |        |

HC = Coated carbide

# Positive triangular P26315 / P26325 Tiger-tec® Gold



## Indexable inserts

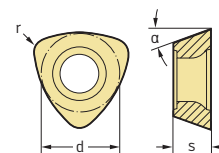
|                                                                                   |           | Tolerance class | Number of cutting edges | d mm | s mm | α   | R mm | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------|-----------------|-------------------------|------|------|-----|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |           |                 |                         |      |      |     |      | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|                                                                                   |           |                 |                         |      |      |     |      | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              |
| Designation                                                                       |           | M               | 3                       | 6,75 | 2,78 | 14° | 10   |  |  |  |  |  |  |  |  |  |  |
|  | P26315R10 | M               | 3                       | 6,75 | 2,78 | 14° | 10   |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | P26315R12 | M               | 3                       | 8,5  | 3,18 | 14° | 12,5 |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | P26315R15 | M               | 3                       | 10,5 | 3,97 | 14° | 15   |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | P26315R16 | M               | 3                       | 10,5 | 3,97 | 14° | 16   |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | P26315R20 | M               | 3                       | 12,5 | 4,76 | 11° | 20   |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | P26315R25 | M               | 3                       | 12,7 | 4,76 | 11° | 25   |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | P26315R31 | M               | 3                       | 12,7 | 4,76 | 11° | 31,5 |  |  |  |  |  |  |  |  |  |  |
|  | P26325R31 | M               | 3                       | 12,7 | 4,76 | 11° | 31,5 |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Positive triangular

### P26337

### Tiger-tec® Gold



#### Indexable inserts

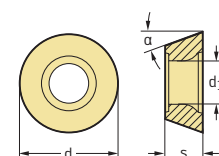
| Designation                                                                                 | Tolerance class | Number of cutting edges | d mm | s mm | r mm | α   | P      |        |        |        | M      |        | K      |        | S      |        |
|---------------------------------------------------------------------------------------------|-----------------|-------------------------|------|------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                             |                 |                         |      |      |      |     | HC     |        |        |        | HC     |        | HC     |        | HC     |        |
|                                                                                             |                 |                         |      |      |      |     | WKP35G | WKP35S | WSP45G | WSP45S | WSP45G | WSP45S | WKP35G | WKP35S | WSP45G | WSP45S |
|  P26337R10 | M               | 3                       | 6,75 | 3,18 | 0,8  | 14° | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      |
| P26337R14                                                                                   | M               | 3                       | 9,52 | 3,97 | 1,2  | 14° | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      |
| P26337R25                                                                                   | M               | 3                       | 13   | 5,56 | 2    | 14° | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      | ✗      |

HC = Coated carbide

## Positive round

### RDHX / RDMX

### Tiger-tec® Gold

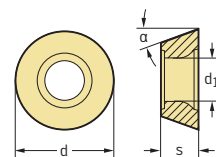


#### Indexable inserts

|                                                                                     | Designation    | Tolerance class | Number of cutting edges | d mm | s mm | α   | d <sub>1</sub> mm | P      |        |        |        | M  | K     |        |        |        |        | S  | H  |
|-------------------------------------------------------------------------------------|----------------|-----------------|-------------------------|------|------|-----|-------------------|--------|--------|--------|--------|----|-------|--------|--------|--------|--------|----|----|
|                                                                                     |                |                 |                         |      |      |     |                   | HC     |        |        |        | HC | WHH15 | WHH15X | HC     |        |        | HC | HC |
|                                                                                     |                |                 |                         |      |      |     |                   | WKP25S | WKP35G | WKP35S | WSP45G |    |       |        | WSM35S | WSP45G | WKP25S |    |    |
|  | RDHX0501M0-A57 | H               | 4                       | 5    | 1,47 | 15° | 2,2               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDHX0702M0-A57 | H               | 4                       | 7    | 2,35 | 15° | 2,8               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDHX07T1M0-A57 | H               | 4                       | 7    | 1,96 | 15° | 2,8               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDHX1003M0-A57 | H               | 4                       | 10   | 3,18 | 15° | 4,4               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDHX12T3M0-A57 | H               | 6                       | 12   | 3,97 | 15° | 4,4               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDHX1604M0-A57 | H               | 4                       | 16   | 4,76 | 15° | 5,5               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDHX2006M0-A57 | H               | 4                       | 20   | 6    | 15° | 5,5               |        |        |        |        |    |       |        |        |        |        |    |    |
|  | RDMX0501M0-D57 | M               | 4                       | 5    | 1,45 | 15° | 2,2               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDMX07T1M0-D57 | M               | 4                       | 7    | 1,94 | 15° | 2,8               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDMX1003M0-D57 | M               | 4                       | 10   | 3,18 | 15° | 4,4               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDMX12T3M0-D57 | M               | 4                       | 12   | 3,97 | 15° | 4,4               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDMX1604M0-D57 | M               | 4                       | 16   | 4,76 | 15° | 5,5               |        |        |        |        |    |       |        |        |        |        |    |    |
|                                                                                     | RDMX2006M0-D57 | M               | 4                       | 20   | 6    | 15° | 5,5               |        |        |        |        |    |       |        |        |        |        |    |    |

HC = Coated carbide

## Positive round RDHW

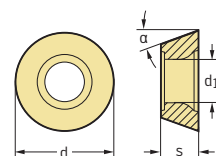


### Indexable inserts

|                                                                                   | Designation    | Tolerance class | Number of cutting edges | d mm | s mm | α   | d <sub>1</sub> mm | K     | H      |
|-----------------------------------------------------------------------------------|----------------|-----------------|-------------------------|------|------|-----|-------------------|-------|--------|
|                                                                                   |                |                 |                         |      |      |     |                   | HC    | HC     |
|  | RDHW0803M0-A57 | H               | 4                       | 8    | 3,18 | 15° | 3,4               | WHH15 | WHH15X |
|                                                                                   | RDHW10T3M0-A57 | H               | 4                       | 10   | 3,97 | 15° | 4,4               | WHH15 | WHH15X |
|                                                                                   | RDHW1204M0-A57 | H               | 6                       | 12   | 4,76 | 15° | 4,4               | WHH15 | WHH15X |
|                                                                                   | RDHW1605M0-A57 | H               | 6                       | 16   | 5,56 | 15° | 5,5               | WHH15 | WHH15X |
|                                                                                   | RDHW2006M0-A57 | H               | 6                       | 20   | 6,35 | 15° | 6,5               | WHH15 | WHH15X |

HC = Coated carbide

## Positive round ROGX / ROHX / ROMX Tiger-tec® Gold



### Indexable inserts

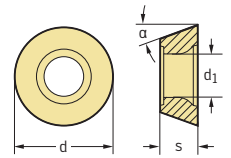
|                                                                                     | Designation     | Tolerance class | Number of cutting edges | d mm | s mm | α   | d <sub>1</sub> mm | P<br>HC |        |        |        |        | M<br>HC |        |        | K<br>HC |        |        |        |        | N<br>HW | S<br>HC |        |        |        | H<br>HC |
|-------------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|------|------|-----|-------------------|---------|--------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|--------|---------|---------|--------|--------|--------|---------|
|                                                                                     |                 |                 |                         |      |      |     |                   | WKP25S  | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S  | WSM45X | WSP45G | WSP45S  | WHH15X | WKK25S | WKP25S | WKP35G | WKP35S  | WK10    | WSM35S | WSM45X | WSP45G | WSP45S  |
|  | ROGX0803M04-G88 | G               | 4                       | 8    | 3,18 | 11° | 3,4               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|  | ROGX2006M08-G88 | G               | 8                       | 20   | 6,35 | 15° | 6,5               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|  | ROGX10T3M08-G88 | G               | 8                       | 10   | 3,97 | 11° | 3,9               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|                                                                                     | ROGX1204M08-G88 | G               | 8                       | 12   | 4,76 | 11° | 4,4               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|                                                                                     | ROGX1605M08-G88 | G               | 8                       | 16   | 5,56 | 15° | 5,5               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|  | ROHX0803M04-A57 | H               | 4                       | 8    | 3,18 | 11° | 3,4               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|  | ROHX0803M04-D57 | H               | 4                       | 8    | 3,18 | 11° | 3,4               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |
|  | ROHX0803M04-D67 | H               | 4                       | 8    | 3,18 | 11° | 3,4               |         |        |        |        |        |         |        |        |         |        |        |        |        |         |         |        |        |        |         |

HW = Uncoated carbide  
HC = Coated carbide

# Positive round

## ROGX / ROHX / ROMX

### Tiger-tec® Gold

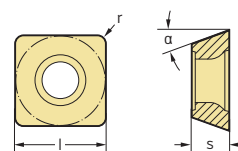


#### Indexable inserts

| Designation                                                                                          | Tolerance class | Number of cutting edges | d<br>mm | s<br>mm | $\alpha$ | d <sub>1</sub><br>mm | P      |        |        |        |        | M      |        |        |        | K      |        |        |        |        | N    | S      |        |        |        | H      |
|------------------------------------------------------------------------------------------------------|-----------------|-------------------------|---------|---------|----------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|
|                                                                                                      |                 |                         |         |         |          |                      | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WHH15X | WKK25S | WKP25S | WKP35G | WKP35S | WK10 | WSM35S | WSM45X | WSP45G | WSP45S | WHH15X |
|  ROHX2006M0T8-A27   | H               | 8                       | 20      | 6,35    | 15°      | 6,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROHX2006M08-A57    | H               | 8                       | 20      | 6,35    | 15°      | 6,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROHX10T3M08-A57    | H               | 8                       | 10      | 3,97    | 11°      | 3,9                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROHX1204M08-A57   | H               | 8                       | 12      | 4,76    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROHX1605M08-A57  | H               | 8                       | 16      | 5,56    | 15°      | 5,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROHX2006M08-D57  | H               | 8                       | 20      | 6,35    | 15°      | 6,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX0803M04-D57  | M               | 4                       | 8       | 3,18    | 11°      | 3,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX2006M0T8-A27 | M               | 8                       | 20      | 6,35    | 15°      | 6,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX10T3M0T8-A27 | M               | 8                       | 10      | 3,97    | 11°      | 3,9                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1204M0T8-A27 | M               | 8                       | 12      | 4,76    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1605M0T8-A27 | M               | 8                       | 16      | 5,56    | 15°      | 5,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX2006M08-D57  | M               | 8                       | 20      | 6,35    | 15°      | 6,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX10T3M08-D57  | M               | 8                       | 10      | 3,97    | 11°      | 3,9                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1204M08-D57  | M               | 8                       | 12      | 4,76    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1605M08-D57  | M               | 8                       | 16      | 5,56    | 15°      | 5,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX10T3M08-F67  | M               | 8                       | 10      | 3,97    | 11°      | 3,9                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1204M08-F67  | M               | 8                       | 12      | 4,76    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1605M08-F67  | M               | 8                       | 16      | 5,56    | 15°      | 5,5                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX10T3M0-D67   | M               | 4                       | 10      | 3,97    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1204M0-D67   | M               | 4                       | 12      | 4,76    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX10T3M0-F67   | M               | 4                       | 10      | 3,97    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |
|  ROMX1204M0-F67   | M               | 4                       | 12      | 4,76    | 11°      | 4,4                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |

HW = Uncoated carbide  
HC = Coated carbide

# Positive square SPGT / SPMT Tiger-tec® Gold

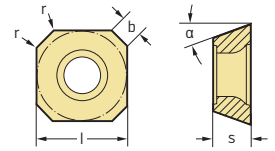


## Indexable inserts

|                                                                                   | Designation    | Tolerance class | Number of cutting edges | l mm | s mm | r mm | α   | P      |        |        |        | M      |        |        |  | K      |        | S      |        |        |
|-----------------------------------------------------------------------------------|----------------|-----------------|-------------------------|------|------|------|-----|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|
|                                                                                   |                |                 |                         |      |      |      |     | HC     |        |        |        | HC     |        |        |  | HC     |        | HC     |        |        |
|                                                                                   |                |                 |                         |      |      |      |     | WKP25S | WKP35S | WSP45G | WSP45S | WSM35S | WSP45G | WSP45S |  | WKP25S | WKP35S | WSM35S | WSP45G | WSP45S |
|  | SPGT120606-F57 | G               | 4                       | 12,7 | 6,35 | 0,6  | 11° |        |        |        |        |        |        |        |  |        |        |        |        |        |
|  | SPMT060304-D51 | M               | 4                       | 6,35 | 3,18 | 0,4  | 11° |        |        |        |        |        |        |        |  |        |        |        |        |        |
|                                                                                   | SPMT09T308-D51 | M               | 4                       | 9,52 | 3,97 | 0,8  | 11° |        |        |        |        |        |        |        |  |        |        |        |        |        |
|                                                                                   | SPMT120408-D51 | M               | 4                       | 12,7 | 4,76 | 0,8  | 11° |        |        |        |        |        |        |        |  |        |        |        |        |        |
|                                                                                   | SPMT120606-D51 | M               | 4                       | 12,7 | 6,35 | 0,6  | 11° |        |        |        |        |        |        |        |  |        |        |        |        |        |
|  | SPMT120606-D57 | M               | 4                       | 12,7 | 6,35 | 0,6  | 11° |        |        |        |        |        |        |        |  |        |        |        |        |        |

HC = Coated carbide

## Positive square SPKT Tiger-tec® Gold

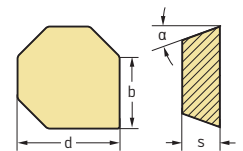


### Indexable inserts

| Designation                                                                       | Tolerance class | Number of cutting edges | l mm | s mm | α | b mm | P      |        |        |        | M      |        |        | K     |        |        | S      |        |        |
|-----------------------------------------------------------------------------------|-----------------|-------------------------|------|------|---|------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
|                                                                                   |                 |                         |      |      |   |      | HC     |        |        |        | HC     |        |        | HC    |        |        | HC     |        |        |
|                                                                                   |                 |                         |      |      |   |      | WKP25S | WKP35S | WSP45G | WSP45S | WSM35S | WSP45G | WSP45S | WAK15 | WKP25S | WKP35S | WSM35S | WSP45G | WSP45S |
|  |                 |                         |      |      |   |      |        |        |        |        |        |        |        |       |        |        |        |        |        |
|                                                                                   |                 |                         |      |      |   |      |        |        |        |        |        |        |        |       |        |        |        |        |        |

HC = Coated carbide

## Finishing inserts OPHX

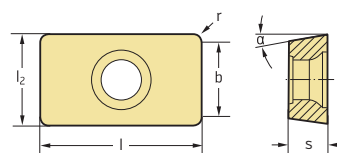


### Indexable inserts

| Designation                                                                         | Tolerance class | Number of cutting edges | d mm | s mm | α | b mm | K     |       | H      |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------|------|------|---|------|-------|-------|--------|--|
|                                                                                     |                 |                         |      |      |   |      | HC    |       | HC     |  |
|                                                                                     |                 |                         |      |      |   |      | WAK15 | WHH15 | WHH15X |  |
|  |                 |                         |      |      |   |      |       |       |        |  |
|                                                                                     |                 |                         |      |      |   |      |       |       |        |  |

HC = Coated carbide

## Positive rhombic BCGX



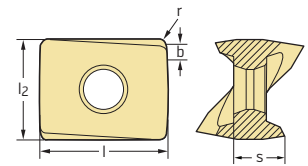
### Indexable inserts

| Designation                                                                                                             | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | α  | b<br>mm | K     |    | H     |        |
|-------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|---------|----------------------|---------|---------|----|---------|-------|----|-------|--------|
|                                                                                                                         |                 |                         |         |                      |         |         |    |         | WAK15 | HC | WHH15 | WHH15X |
| <br>BCGX0903PDR-G55<br>BCGX1605PDR-G55 | G               | 2                       | 10,3    | 6,3                  | 3,21    | 0,4     | 7° | 5       | ☺     | ☺  | ☺     | ☺      |
|                                                                                                                         | G               | 2                       | 17,3    | 9,9                  | 5,81    | 0,8     | 7° | 8       | ☺     | ☺  | ☺     | ☺      |

HC = Coated carbide



## Negative rhombic LNGX Tiger-tec® Gold

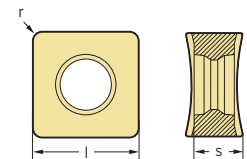


### Indexable inserts

|  | Designation | Tolerance class | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | r mm | b mm | P      |        |        |        |        | M      |        |        | K     |        |        |        | S      |        |        |        |
|-----------------------------------------------------------------------------------|-------------|-----------------|-------------------------|------|-------------------|------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                   |             |                 |                         |      |                   |      |      |      | HC     |        |        |        |        | HC     |        |        | HC    |        |        |        | HC     |        |        |        |
|                                                                                   |             |                 |                         |      |                   |      |      |      | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSP45G | WSP45S | WAK15 | WKK25S | WKP25S | WKP35G | WKP35S | WSM35S | WSP45G | WSP45S |
|                                                                                   |             |                 |                         |      |                   |      |      |      |        |        |        |        |        |        |        |        |       |        |        |        |        |        |        |        |
| LNGX130708R-L55                                                                   | G           | 4               | 13,7                    | 11   | 7,74              | 0,8  | 1,2  | ☺    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |
| LNGX130712R-L55                                                                   | G           | 4               | 13,7                    | 11   | 7,74              | 1,2  | 1    | ☺    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |
| LNGX130716R-L55                                                                   | G           | 4               | 13,7                    | 11   | 7,74              | 1,6  | 0,9  | ☺    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |
| LNGX130720R-L55                                                                   | G           | 4               | 13,7                    | 11   | 7,74              | 2    | 0,7  | ☺    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |
| LNGX130725R-L55                                                                   | G           | 4               | 13,7                    | 11   | 7,74              | 2,5  | 0,6  | ☺    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |
| LNGX130730R-L55                                                                   | G           | 4               | 13,7                    | 11   | 7,74              | 3    | 0,7  | ☺    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |

HC = Coated carbide

## Negative square SNMX Tiger-tec® Gold

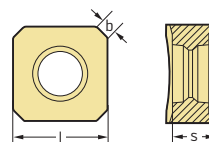


### Indexable inserts

| Designation                                                                         | Tolerance class | Number of cutting edges | l<br>mm | s<br>mm | r<br>mm | P      |        |        |        |        | M      |        |        | K      |        |        |        | S      |        |        |
|-------------------------------------------------------------------------------------|-----------------|-------------------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                                                     |                 |                         |         |         |         | HC     |        |        |        |        | HC     |        |        | HC     |        |        |        | HC     |        |        |
|                                                                                     |                 |                         |         |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSP45G | WSP45S | WKK25S | WKP25S | WKP35G | WKP35S | WSM35S | WSP45G | WSP45S |
|  | SNMX090408-F57  | M                       | 8       | 9,52    | 4,85    | 0,8    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |
|                                                                                     | SNMX120512-F57  | M                       | 8       | 12,7    | 5,5     | 1,2    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |
|                                                                                     | SNMX120520-F57  | M                       | 8       | 12,7    | 5,5     | 2      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |
|                                                                                     | SNMX160620-F57  | M                       | 8       | 16      | 6,38    | 2      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |
|                                                                                     | SNMX160640-F57  | M                       | 8       | 16      | 6,38    | 4      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |
|  | SNMX090408-F67  | M                       | 8       | 9,52    | 4,87    | 0,8    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |
|                                                                                     | SNMX120512-F67  | M                       | 8       | 12,7    | 5,63    | 1,2    | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |

HC = Coated carbide

## Negative square SNGX Tiger-tec® Gold

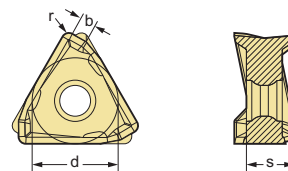


### Indexable inserts

|  | Designation     | Tolerance class | Number of cutting edges | l mm | s mm | b mm | P                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     |                                                                                     | S                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|------|------|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                 |                 |                         |      |      |      | HC                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     |
|                                                                                   |                 |                 |                         |      |      |      | WKP25S                                                                             | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WSM35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WKK25S                                                                              | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSM35S                                                                              | WSP45G                                                                              | WSP45S                                                                              |
|                                                                                   |                 |                 |                         |      |      |      |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                                                   | SNGX0904ANN-F57 | G               | 8                       | 9,52 | 4,69 | 1,2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | SNGX1205ANN-F57 | G               | 8                       | 12,7 | 5,54 | 1,5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | SNGX1606ANN-F57 | G               | 8                       | 16   | 6,3  | 1,8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Negative triangular TNMU Tiger-tec® Gold

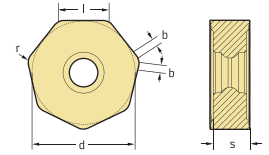


### Indexable inserts

| Designation                                                                                         | Tolerance class | Number of cutting edges | d mm | s mm | r mm | b mm | P                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       | K                                                                                     |                                                                                       |                                                                                       | S                                                                                     |                                                                                       |
|-----------------------------------------------------------------------------------------------------|-----------------|-------------------------|------|------|------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                     |                 |                         |      |      |      |      | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |
|                                                                                                     |                 |                         |      |      |      |      | WKP25S                                                                                | WKP35G                                                                                | WKP35S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WKP25S                                                                                | WKP35G                                                                                | WKP35S                                                                                | WSP45G                                                                                | WSP45S                                                                                |
|  TNMU11T304R-G57 | M               | 6                       | 6,72 | 3,75 | 0,4  | 1    |  |  |  |  |  |  |  |  |  |  |  |  |
| TNMU160508R-G57                                                                                     | M               | 6                       | 9,6  | 5,35 | 0,8  | 1,6  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Negative heptagonal XNGU / XNMU Tiger-tec® Gold



### Indexable inserts

|                                                                                   | Designation     | Tolerance class | Number of cutting edges | d<br>mm | l<br>mm | s<br>mm | r<br>mm | b<br>mm | P<br>HC                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M<br>HC                                                                             |                                                                                     |                                                                                     | K<br>HC                                                                             |                                                                                     |                                                                                     | S<br>HC                                                                             |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|---------|---------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                 |                 |                         |         |         |         |         |         | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WSM35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSM35S                                                                              | WSP45G                                                                              | WSP45S                                                                              |
|  | XNGU0705ANN-F57 | G               | 14                      | 14,5    | 6,98    | 5       | 0,8     | 1,1     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | XNMU0705ANN-F57 | M               | 14                      | 14,5    | 6,98    | 5       | 0,8     | 1,1     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | XNMU0906ANN-F57 | M               | 14                      | 19,05   | 9,18    | 5,88    | 0,8     | 1,4     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

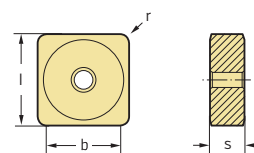
## Negative heptagonal XNMU Tiger-tec® Gold

### Indexable inserts

|                                                                                     | Designation    | Tolerance class | Number of cutting edges | d mm  | l mm | s mm | r mm | P<br>HC                                                                               |                                                                                       |                                                                                       |                                                                                       |                                                                                       | M<br>HC                                                                               |                                                                                       |                                                                                       | K<br>HC                                                                               |                                                                                       |                                                                                       | S<br>HC                                                                               |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|----------------|-----------------|-------------------------|-------|------|------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |                |                 |                         |       |      |      |      | WKP25S                                                                                | WKP35G                                                                                | WKP35S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WSM35S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WKP25S                                                                                | WKP35G                                                                                | WKP35S                                                                                | WSM35S                                                                                | WSP45G                                                                                | WSP45S                                                                                |
|  | XNMU070508-F57 | M               | 14                      | 14,5  | 6,98 | 5    | 0,8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                     | XNMU090612-F57 | M               | 14                      | 19,05 | 9,18 | 5,88 | 1,2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

## Finishing inserts SNEF



### Indexable inserts

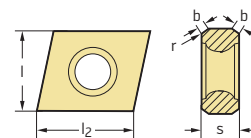
| Designation                                                                                       | Tolerance class | Number of cutting edges | l<br>mm | s<br>mm | r<br>mm | b<br>mm | H<br>HC                                                                             |
|---------------------------------------------------------------------------------------------------|-----------------|-------------------------|---------|---------|---------|---------|-------------------------------------------------------------------------------------|
|                                                                                                   |                 |                         |         |         |         |         | WHH15X                                                                              |
|  SNEF1204PNN-A27 | E               | 8                       | 12,7    | 4,76    | 1,2     | 10,3    |  |

HC = Coated carbide

## Tangential rhombic

### CNHU / CNMU

### Tiger-tec® Gold



#### Indexable inserts

|                                                                                   | Designation      | Tolerance class | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | r mm | b mm | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   |                                                                                     |                                                                                     | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|------------------|-----------------|-------------------------|------|-------------------|------|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                  |                 |                         |      |                   |      |      |      | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |                                                                                     |
|                                                                                   |                  |                 |                         |      |                   |      |      |      | WKP25S                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WSM35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WKP25S                                                                              | WKP35S                                                                              | WSM35S                                                                              | WSP45G                                                                              | WSP45S                                                                              |
|  | CNHU0805PPN-D57T | H               | 2                       | 8    | 9                 | 5    | 0,8  | 1,2  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | CNHU1206PPN-D57T | H               | 2                       | 12   | 13                | 6,5  | 0,8  | 1,5  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | CNMU080508-D57T  | M               | 2                       | 8    | 9                 | 5    | 0,8  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | CNMU120608-D57T  | M               | 2                       | 12   | 13                | 6,5  | 0,8  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | CNMU160812-D57T  | M               | 2                       | 16   | 15                | 8    | 1,2  |      |  |  |  |  |  |  |  |  |  |  |  |  |

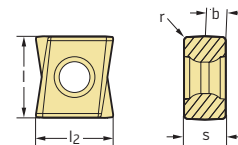
Note: l<sub>2</sub> = Width of cut

HC = Coated carbide

## Tangential rhombic

### LNHU / LNMU

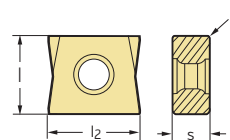
### Tiger-tec® Gold



#### Indexable inserts

|                                                                                     | Designation      | Tolerance class | Number of cutting edges | l mm | l <sub>2</sub> mm | s mm | r mm | b mm                                                                                | P                                                                                   |                                                                                      |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       |                                                                                       |                                                                                       | K                                                                                     |                                                                                       |                                                                                       |                                                                                       | S                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|------------------|-----------------|-------------------------|------|-------------------|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                     |                  |                 |                         |      |                   |      |      |                                                                                     | HC                                                                                  |                                                                                      |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|                                                                                     |                  |                 |                         |      |                   |      |      |                                                                                     | WKP25S                                                                              | WKP35G                                                                               | WKP35S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WSM35S                                                                                | WSM45X                                                                                | WSP45G                                                                                | WSP45S                                                                                | WAK15                                                                                 | WKK25S                                                                                | WKP25S                                                                                | WKP35G                                                                                | WKP35S                                                                                | WSM35S                                                                                | WSM45X                                                                                | WSP45G                                                                                | WSP45S                                                                                |                                                                                       |
|  | LNHU090404R-L55T | H               | 4                       | 9    | 8,5               | 4,5  | 0,4  | 1,5                                                                                 |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNHU090408R-L55T | H               | 4                       | 9    | 8,5               | 4,5  | 0,8  | 1,1                                                                                 |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNHU090412R-L55T | H               | 4                       | 9    | 8,5               | 4,5  | 1,2  | 0,8                                                                                 |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNHU090416R-L55T | H               | 4                       | 9    | 8,5               | 4,5  | 1,6  |                                                                                     |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNHU090420R-L55T | H               | 4                       | 9    | 8,5               | 4,5  | 2    |                                                                                     |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNHU130608R-L55T | H               | 4                       | 13   | 12                | 6,8  | 0,8  | 2,2                                                                                 |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNHU130612R-L55T | H               | 4                       | 13   | 12                | 6,8  | 1,2  | 1,9                                                                                 |                                                                                     |   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                     | LNHU130616R-L55T | H               | 4                       | 13   | 12                | 6,8  | 1,6  | 1,5                                                                                 |                                                                                     |   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                     | LNHU130620R-L55T | H               | 4                       | 13   | 12                | 6,8  | 2    | 1,2                                                                                 |                                                                                     |   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                     | LNHU130625R-L55T | H               | 4                       | 13   | 12                | 6,8  | 2,5  | 0,7                                                                                 |                                                                                     |   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                     | LNHU130630R-L55T | H               | 4                       | 13   | 12                | 6,8  | 3    | 2,3                                                                                 |                                                                                     |   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                     | LNHU130632R-L55T | H               | 4                       | 13   | 12                | 6,8  | 3,2  |                                                                                     |                                                                                     |   |    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LNHU160708R-L55T                                                                    | H                | 4               | 16                      | 15,5 | 7,2               | 0,8  | 2,3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |                                                                                       |
| LNHU160712R-L55T                                                                    | H                | 4               | 16                      | 15,5 | 7,2               | 1,2  | 1,9  |                                                                                     |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|  | LNMU090404R-L55T | M               | 4                       | 9    | 8,5               | 4,5  | 0,4  | 1,5                                                                                 |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                     | LNMU130608R-L55T | M               | 4                       | 13   | 12                | 6,8  | 0,8  | 2,2                                                                                 |  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |

# Tangential rhombic LNHU / LNMU Tiger-tec® Gold

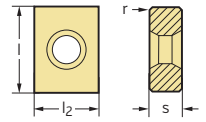


## Indexable inserts

| Designation                                                                       |                 | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | P<br>HC                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | M<br>HC                                                                           |                                                                                   | K<br>HC                                                                           |                                                                                   |                                                                                   | S<br>HC                                                                           |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                   |                 |                 |                         |         |                      |         |         | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WSP45G                                                                            | WSP45S                                                                            | WSM35S                                                                            | WSP45G                                                                            | WSP45S                                                                            | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WSM35S                                                                            | WSP45G                                                                            | WSP45S                                                                            |
|                                                                                   |                 |                 |                         |         |                      |         |         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|  | LNHU080304-F57T | H               | 4                       | 8       | 9                    | 3,5     | 0,4     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNHU080404-F57T | H               | 4                       | 8       | 9,4                  | 4,5     | 0,4     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNHU100508-F57T | H               | 4                       | 10      | 12,3                 | 5,5     | 0,8     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNHU120608-F57T | H               | 4                       | 12      | 13,9                 | 6,5     | 0,8     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNHU160812-F57T | H               | 4                       | 16      | 16,9                 | 8       | 1,2     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | LNMU080304-F57T | M               | 4                       | 8       | 9                    | 3,5     | 0,4     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNMU080404-F57T | M               | 4                       | 8       | 9,4                  | 4,5     | 0,4     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNMU100508-F57T | M               | 4                       | 10      | 12,3                 | 5,5     | 0,8     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNMU120608-F57T | M               | 4                       | 12      | 13,9                 | 6,5     | 0,8     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNMU160812-F57T | M               | 4                       | 16      | 16,9                 | 8       | 1,2     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

# Tangential rhombic LNMU Tiger-tec® Gold



## Indexable inserts

|  | Designation     | Tolerance class | Number of cutting edges | l<br>mm | l <sub>2</sub><br>mm | s<br>mm | r<br>mm | P<br>HC                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M<br>HC                                                                             |                                                                                     | K<br>HC                                                                             |                                                                                     |                                                                                     | S<br>HC                                                                             |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------|-------------------------|---------|----------------------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                 |                 |                         |         |                      |         |         | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WAK15                                                                               | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              |
|                                                                                   |                 |                 |                         |         |                      |         |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNMU150812-F57T | M               | 4                       | 15      | 14                   | 8       | 1,2     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | LNMU201012-F57T | M               | 4                       | 20      | 16                   | 10      | 1,2     |  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

# High-feed milling cutters

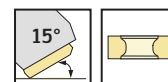
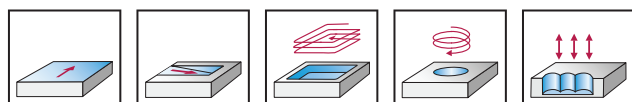
M5008

ENMX08T316R

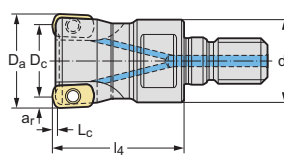
Xtra-tec® XT



– 4 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5008 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                                                                      | Designation            | D <sub>c</sub><br>mm | D <sub>a</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | L <sub>c</sub><br>mm | a <sub>r</sub><br>mm | Z | kg   | No. of<br>index-<br>able<br>inserts | Type        |
|-----------------------------------------------------------------------------------------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|-------------------------------------|-------------|
| Cylindrical, modular<br> | M5008-016-TC08-02-01   | 10,1                 | 16                   | M8                   | 25                   | 1                    | 2,9                  | 2 | 0,03 | 2                                   | ENMX08T316R |
|                                                                                                           | M5008-020-TC10-03-01   | 14,1                 | 20                   | M10                  | 30                   | 1                    | 2,9                  | 3 | 0,04 | 3                                   |             |
|                                                                                                           | M5008-020-TC10-04-01   | 14,1                 | 20                   | M10                  | 30                   | 1                    | 2,9                  | 4 | 0,04 | 4                                   |             |
|                                                                                                           | M5008-025-TC12-04-01   | 19,1                 | 25                   | M12                  | 35                   | 1                    | 2,9                  | 4 | 0,08 | 4                                   |             |
|                                                                                                           | M5008-025-TC12-05-01   | 19,1                 | 25                   | M12                  | 35                   | 1                    | 2,9                  | 5 | 0,08 | 5                                   |             |
|                                                                                                           | M5008-030-TC16-04-01   | 24,1                 | 30                   | M16                  | 40                   | 1                    | 2,9                  | 4 | 0,16 | 4                                   |             |
|                                                                                                           | M5008-030-TC16-05-01   | 24,1                 | 30                   | M16                  | 40                   | 1                    | 2,9                  | 5 | 0,16 | 5                                   |             |
|                                                                                                           | M5008-032-TC16-05-01   | 26,1                 | 32                   | M16                  | 40                   | 1                    | 2,9                  | 5 | 0,17 | 5                                   |             |
|                                                                                                           | M5008-032-TC16-06-01   | 26,1                 | 32                   | M16                  | 40                   | 1                    | 2,9                  | 6 | 0,17 | 6                                   |             |
|                                                                                                           | M5008-035-TC16-05-01   | 29,1                 | 35                   | M16                  | 40                   | 1                    | 2,9                  | 5 | 0,19 | 5                                   |             |
|                                                                                                           | M5008-035-TC16-06-01   | 29,1                 | 35                   | M16                  | 40                   | 1                    | 2,9                  | 6 | 0,2  | 6                                   |             |
|                                                                                                           | ★ M5008-040-TC16-06-01 | 34,1                 | 40                   | M16                  | 40                   | 1                    | 2,9                  | 6 | 0,22 | 6                                   |             |
|                                                                                                           | ★ M5008-040-TC16-08-01 | 34,1                 | 40                   | M16                  | 40                   | 1                    | 2,9                  | 8 | 0,23 | 8                                   |             |
|                                                                                                           | ★ M5008-042-TC16-06-01 | 36,1                 | 42                   | M16                  | 40                   | 1                    | 2,9                  | 6 | 0,24 | 6                                   |             |
|                                                                                                           | ★ M5008-042-TC16-08-01 | 36,1                 | 42                   | M16                  | 40                   | 1                    | 2,9                  | 8 | 0,25 | 8                                   |             |

Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 10,1–36,1               |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>1,2 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 10,1–36,1     |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2001        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2012 (T8IP) |
|  | Screwdriver                  | FS1483 (T8IP) |

## Indexable inserts

|                                                                                   | Designation     | r<br>mm | P                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | M                                                                                 |                                                                                   |                                                                                   | K                                                                                 |                                                                                   |                                                                                   |                                                                                   | S                                                                                 |                                                                                   |                                                                                   |                                                                                   | H                                                                                 |
|-----------------------------------------------------------------------------------|-----------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                   |                 |         | HC                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   | HC                                                                                |                                                                                   |                                                                                   | HC                                                                                |                                                                                   |                                                                                   |                                                                                   | HC                                                                                |                                                                                   |                                                                                   |                                                                                   | HC                                                                                |
|                                                                                   |                 |         | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WSP45G                                                                            | WSP45S                                                                            | WSM35S                                                                            | WSP45G                                                                            | WSP45S                                                                            | WKK25S                                                                            | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WSM35S                                                                            | WSM45X                                                                            | WSP45G                                                                            | WSP45S                                                                            | WHH15X                                                                            |
|  | ENMX08T316R-D27 | 1,6     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                   | ENMX08T316R-F47 | 1,6     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HC = Coated carbide

# Shoulder milling cutters

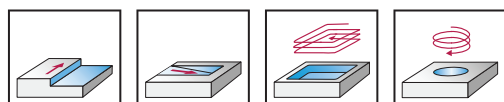
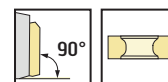
M5137 mm

TNMU11T304R

Xtra-tec® XT



– 6 cutting edges per indexable insert



|       | P  | M  | K  | N  | S  | H  | O  |
|-------|----|----|----|----|----|----|----|
| M5137 | ●● | ●● | ●● | ●● | ●● | ●● | ●● |

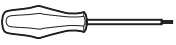
| Tool                                           | Designation           | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>indexable<br>inserts | Type        |
|------------------------------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|--------------------------------|-------------|
| DIN 1835 B<br>                                 | ★ M5137-025-W25-03-05 | 25                   | 25                   | 40                   | 96                   | 5                    | 3 | 0,3  | 3                              | TNMU11T304R |
|                                                | ★ M5137-032-W32-04-05 | 32                   | 32                   | 40                   | 101                  | 5                    | 4 | 0,53 | 4                              |             |
|                                                | ★ M5137-032-W32-05-05 | 32                   | 32                   | 40                   | 101                  | 5                    | 5 | 0,53 | 5                              |             |
| Parallel bore DIN 138<br>transverse keyway<br> | ★ M5137-040-B16-05-05 | 40                   | 16                   | 40                   |                      | 5                    | 5 | 0,19 | 5                              | TNMU11T304R |
|                                                | ★ M5137-040-B16-06-05 | 40                   | 16                   | 40                   |                      | 5                    | 6 | 0,19 | 6                              |             |
|                                                | ★ M5137-050-B22-06-05 | 50                   | 22                   | 40                   |                      | 5                    | 6 | 0,29 | 6                              |             |
|                                                | ★ M5137-050-B22-08-05 | 50                   | 22                   | 40                   |                      | 5                    | 8 | 0,29 | 8                              |             |
|                                                | ★ M5137-063-B22-07-05 | 63                   | 22                   | 40                   |                      | 5                    | 7 | 0,48 | 7                              |             |
|                                                | ★ M5137-063-B22-09-05 | 63                   | 22                   | 40                   |                      | 5                    | 9 | 0,48 | 9                              |             |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 25–63                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2061 (T7IP)<br>0,9 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 25–63         |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2001        |
|  | Interchangeable blade        | FS2011 (T7IP) |
|  | Screwdriver                  | FS2088 (T7IP) |

## Indexable inserts

|  | Designation     | r<br>mm | b<br>mm | P                                                                                   |                                                                                     |                                                                                     |                                                                                     | M                                                                                   | K                                                                                   |                                                                                     | S                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                 |         |         | HC                                                                                  |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  | HC                                                                                  |                                                                                     | HC                                                                                  |                                                                                     |
|                                                                                   |                 |         |         | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45G                                                                              | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              |
|                                                                                   |                 |         |         |  |  |  |  |  |  |  |  |  |
|                                                                                   | TNMU11T304R-G57 | 0,4     | 1       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

HC = Coated carbide

# Shoulder milling cutters

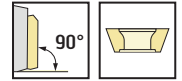
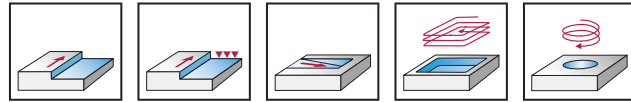
M5130 mm

AC .. 0602 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

| Tool                     | Designation          | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z  | kg   | No. of<br>indexable<br>inserts | Type            |
|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----|------|--------------------------------|-----------------|
| ScrewFit<br>             | M5130-010-T09-02-05  | 10                   | T09                  | 20                   |                      | 5                    | 2  | 0,02 | 2                              | AC .. 0602 .. R |
|                          | M5130-012-T09-03-05  | 12                   | T09                  | 20                   |                      | 5                    | 3  | 0,02 | 3                              |                 |
|                          | M5130-016-T14-03-05  | 16                   | T14                  | 25                   |                      | 5                    | 3  | 0,04 | 3                              |                 |
|                          | M5130-016-T14-04-05  | 16                   | T14                  | 25                   |                      | 5                    | 4  | 0,03 | 4                              |                 |
|                          | M5130-020-T18-04-05  | 20                   | T18                  | 25                   |                      | 5                    | 4  | 0,05 | 4                              |                 |
|                          | M5130-020-T18-05-05  | 20                   | T18                  | 25                   |                      | 5                    | 5  | 0,05 | 5                              |                 |
|                          | M5130-025-T22-05-05  | 25                   | T22                  | 30                   |                      | 5                    | 5  | 0,1  | 5                              |                 |
|                          | M5130-025-T22-07-05  | 25                   | T22                  | 30                   |                      | 5                    | 7  | 0,1  | 7                              |                 |
|                          | M5130-032-T28-06-05  | 32                   | T28                  | 35                   |                      | 5                    | 6  | 0,19 | 6                              |                 |
|                          | M5130-032-T28-08-05  | 32                   | T28                  | 35                   |                      | 5                    | 8  | 0,2  | 8                              |                 |
|                          | M5130-040-T36-07-05  | 40                   | T36                  | 35                   |                      | 5                    | 7  | 0,34 | 7                              |                 |
| Cylindrical, modular<br> | M5130-010-TC06-02-05 | 10                   | M6                   | 20                   |                      | 5                    | 2  | 0,01 | 2                              | AC .. 0602 .. R |
|                          | M5130-012-TC06-03-05 | 12                   | M6                   | 20                   |                      | 5                    | 3  | 0,01 | 3                              |                 |
|                          | M5130-016-TC08-03-05 | 16                   | M8                   | 25                   |                      | 5                    | 3  | 0,03 | 3                              |                 |
|                          | M5130-016-TC08-04-05 | 16                   | M8                   | 25                   |                      | 5                    | 4  | 0,03 | 4                              |                 |
|                          | M5130-020-TC10-04-05 | 20                   | M10                  | 25                   |                      | 5                    | 4  | 0,05 | 4                              |                 |
|                          | M5130-020-TC10-05-05 | 20                   | M10                  | 25                   |                      | 5                    | 5  | 0,05 | 5                              |                 |
|                          | M5130-025-TC12-05-05 | 25                   | M12                  | 30                   |                      | 5                    | 5  | 0,1  | 5                              |                 |
|                          | M5130-025-TC12-07-05 | 25                   | M12                  | 30                   |                      | 5                    | 7  | 0,1  | 7                              |                 |
|                          | M5130-032-TC16-06-05 | 32                   | M16                  | 35                   |                      | 5                    | 6  | 0,19 | 6                              |                 |
|                          | M5130-032-TC16-08-05 | 32                   | M16                  | 35                   |                      | 5                    | 8  | 0,2  | 8                              |                 |
|                          | M5130-040-TC16-07-05 | 40                   | M16                  | 35                   |                      | 5                    | 7  | 0,24 | 7                              |                 |
|                          | M5130-040-TC16-10-05 | 40                   | M16                  | 35                   |                      | 5                    | 10 | 0,27 | 10                             |                 |
| DIN 1835 B<br>           | M5130-010-W10-02-05  | 10                   | 10                   | 16                   | 60                   | 5                    | 2  | 0,03 | 2                              | AC .. 0602 .. R |
|                          | M5130-010-W16-02-05  | 10                   | 16                   | 30                   | 80                   | 5                    | 2  | 0,09 | 2                              |                 |
|                          | M5130-012-W12-03-05  | 12                   | 12                   | 19                   | 65                   | 5                    | 3  | 0,05 | 3                              |                 |
|                          | M5130-012-W16-03-05  | 12                   | 16                   | 30                   | 80                   | 5                    | 3  | 0,09 | 3                              |                 |
|                          | M5130-016-W16-03-05  | 16                   | 16                   | 21                   | 70                   | 5                    | 3  | 0,09 | 3                              |                 |
|                          | M5130-016-W16-04-05  | 16                   | 16                   | 21                   | 70                   | 5                    | 4  | 0,11 | 4                              |                 |
|                          | M5130-020-W20-04-05  | 20                   | 20                   | 24                   | 75                   | 5                    | 4  | 0,16 | 4                              |                 |
|                          | M5130-020-W20-05-05  | 20                   | 20                   | 24                   | 75                   | 5                    | 5  | 0,16 | 5                              |                 |
|                          | M5130-025-W25-05-05  | 25                   | 25                   | 26                   | 85                   | 5                    | 5  | 0,29 | 5                              |                 |
|                          | M5130-025-W25-07-05  | 25                   | 25                   | 26                   | 85                   | 5                    | 7  | 0,29 | 7                              |                 |

Bodies and assembly parts are included in the scope of delivery.

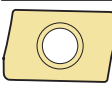
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 10–63                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2560 (T6IP)<br>0,5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 10–63             |
|-----------------------------------------------------------------------------------|------------------------------|-------------------|
|  | Torque screwdriver, analogue | FS2001            |
|  | Interchangeable blade        | SD2001-6IP (T6IP) |
|  | Screwdriver                  | SD1001-6IP (T6IP) |

## Indexable inserts

|                                                                                   | Designation     | r<br>mm | b<br>mm | P                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     | M                                                                                  |                                                                                     |                                                                                     | K                                                                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     | N                                                                                 |                                                                                   | S                                                                                  |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                 |         |         | HC                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     | HC                                                                                 |                                                                                     |                                                                                     | HC                                                                                |                                                                                   |                                                                                   |                                                                                     |                                                                                     | HC                                                                                | HW                                                                                | HC                                                                                 |                                                                                     |                                                                                     |
|                                                                                   |                 |         |         | WKP25S                                                                            | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                              | WSP45S                                                                              | WSM35S                                                                             | WSP45G                                                                              | WSP45S                                                                              | WAK15                                                                             | WKK25S                                                                            | WKP25S                                                                            | WKP35G                                                                              | WKP35S                                                                              |                                                                                   |                                                                                   | WSM35S                                                                             | WSP45G                                                                              | WSP45S                                                                              |
|  | ACGT060204R-G65 | 0,4     | 0,9     |  |    |    |    |    |   |    |    |                                                                                   |                                                                                   |  |    |    |                                                                                   |                                                                                   |   |    |    |
|                                                                                   | ACGT060204R-M85 | 0,4     | 0,9     |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |  |  |                                                                                    |                                                                                     |                                                                                     |
|                                                                                   | ACMT060202R-G55 | 0,2     | 1       |                                                                                   |    |    |    |    |                                                                                    |    |    |                                                                                   |                                                                                   |                                                                                   |    |    |                                                                                   |                                                                                   |                                                                                    |    |    |
|                                                                                   | ACMT060204R-G55 | 0,4     | 0,9     |  |    |    |    |    |   |    |    |  |  |  |    |    |                                                                                   |                                                                                   |  |   |   |
|                                                                                   | ACMT060204R-K55 | 0,4     | 0,9     |                                                                                   |   |   |   |   |  |   |   |                                                                                   |                                                                                   |                                                                                   |   |   |                                                                                   |                                                                                   |  |   |   |
|                                                                                   | ACMT060208R-G55 | 0,8     | 0,8     |                                                                                   |   |   |   |   |                                                                                    |   |   |                                                                                   |                                                                                   |                                                                                   |   |   |                                                                                   |                                                                                   |                                                                                    |   |   |
|                                                                                   | ACMT060212R-G55 | 1,2     | 0,6     |                                                                                   |  |  |  |  |                                                                                    |  |  |                                                                                   |                                                                                   |                                                                                   |  |  |                                                                                   |                                                                                   |                                                                                    |  |  |
|                                                                                   | ACMT060216R-G55 | 1,6     | 0,1     |                                                                                   |  |  |  |  |                                                                                    |  |  |                                                                                   |                                                                                   |                                                                                   |  |  |                                                                                   |                                                                                   |                                                                                    |  |  |

HC = Coated carbide  
HW = Uncoated carbide

# Shoulder milling cutters

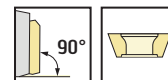
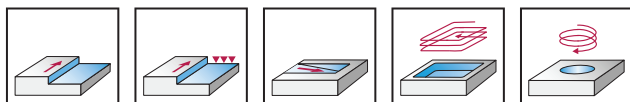
M5130

AC .. 0602 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                           | Designation         | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z  | kg   | No. of<br>indexable<br>inserts | Type            |
|------------------------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----|------|--------------------------------|-----------------|
| Cylindrical shank<br>                          | M5130-010-A10-02-05 | 10                   | 10                   | 16                   | 60                   | 5                    | 2  | 0,03 | 2                              | AC .. 0602 .. R |
|                                                | M5130-010-A16-02-05 | 10                   | 16                   | 30                   | 80                   | 5                    | 2  | 0,1  | 2                              |                 |
|                                                | M5130-012-A12-03-05 | 12                   | 12                   | 19                   | 70                   | 5                    | 3  | 0,05 | 3                              |                 |
|                                                | M5130-012-A16-03-05 | 12                   | 16                   | 30                   | 80                   | 5                    | 3  | 0,09 | 3                              |                 |
|                                                | M5130-014-A16-03-05 | 14                   | 16                   | 30                   | 80                   | 5                    | 3  | 0,06 | 3                              |                 |
|                                                | M5130-016-A16-03-05 | 16                   | 16                   | 21                   | 90                   | 5                    | 3  | 0,12 | 3                              |                 |
|                                                | M5130-016-A16-04-05 | 16                   | 16                   | 21                   | 90                   | 5                    | 4  | 0,13 | 4                              |                 |
|                                                | M5130-018-A16-03-05 | 18                   | 16                   | 21                   | 90                   | 5                    | 3  | 0,13 | 3                              |                 |
|                                                | M5130-020-A20-04-05 | 20                   | 20                   | 24                   | 110                  | 5                    | 4  | 0,24 | 4                              |                 |
|                                                | M5130-020-A20-05-05 | 20                   | 20                   | 24                   | 110                  | 5                    | 5  | 0,24 | 5                              |                 |
|                                                | M5130-022-A20-04-05 | 22                   | 20                   | 24                   | 110                  | 5                    | 4  | 0,25 | 4                              |                 |
|                                                | M5130-025-A25-05-05 | 25                   | 25                   | 26                   | 120                  | 5                    | 5  | 0,42 | 5                              |                 |
| Parallel bore DIN 138<br>transverse keyway<br> | M5130-032-B16-06-05 | 32                   | 16                   | 40                   |                      | 5                    | 6  | 0,14 | 6                              | AC .. 0602 .. R |
|                                                | M5130-032-B16-08-05 | 32                   | 16                   | 40                   |                      | 5                    | 8  | 0,14 | 8                              |                 |
|                                                | M5130-040-B16-07-05 | 40                   | 16                   | 40                   |                      | 5                    | 7  | 0,27 | 7                              |                 |
|                                                | M5130-040-B16-10-05 | 40                   | 16                   | 40                   |                      | 5                    | 10 | 0,27 | 10                             |                 |
|                                                | M5130-050-B22-09-05 | 50                   | 22                   | 40                   |                      | 5                    | 9  | 0,42 | 9                              |                 |
|                                                | M5130-050-B22-12-05 | 50                   | 22                   | 40                   |                      | 5                    | 12 | 0,42 | 12                             |                 |
|                                                | M5130-063-B22-11-05 | 63                   | 22                   | 40                   |                      | 5                    | 11 | 0,54 | 11                             |                 |
|                                                | M5130-063-B22-14-05 | 63                   | 22                   | 40                   |                      | 5                    | 14 | 0,54 | 14                             |                 |

Bodies and assembly parts are included in the scope of delivery.

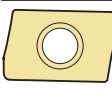
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 10–63                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2560 (T6IP)<br>0,5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 10–63             |
|-----------------------------------------------------------------------------------|------------------------------|-------------------|
|  | Torque screwdriver, analogue | FS2001            |
|  | Interchangeable blade        | SD2001-6IP (T6IP) |
|  | Screwdriver                  | SD1001-6IP (T6IP) |

## Indexable inserts

|                                                                                   | Designation     | r<br>mm | b<br>mm | P                                                                                 |                                                                                     |                                                                                      |                                                                                       |                                                                                       | M                                                                                    |                                                                                       |                                                                                       | K                                                                                   |                                                                                     |                                                                                     |                                                                                       |                                                                                       | N                                                                                 |                                                                                   | S                                                                                    |                                                                                       |                                                                                       |
|-----------------------------------------------------------------------------------|-----------------|---------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                   |                 |         |         | HC                                                                                |                                                                                     |                                                                                      |                                                                                       |                                                                                       | HC                                                                                   |                                                                                       |                                                                                       | HC                                                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       | HC                                                                                | HW                                                                                | HC                                                                                   |                                                                                       |                                                                                       |
|                                                                                   |                 |         |         | WKP25S                                                                            | WKP35G                                                                              | WKP35S                                                                               | WSP45G                                                                                | WSP45S                                                                                | WSM35S                                                                               | WSP45G                                                                                | WSP45S                                                                                | WAK15                                                                               | WKK25S                                                                              | WKP25S                                                                              | WKP35G                                                                                | WKP35S                                                                                |                                                                                   |                                                                                   | WSM35S                                                                               | WSP45G                                                                                | WSP45S                                                                                |
|  | ACGT060204R-G65 | 0,4     | 0,9     |  |    |    |    |    |   |    |    |                                                                                     |                                                                                     |  |    |    |                                                                                   |                                                                                   |   |    |    |
|                                                                                   | ACGT060204R-M85 | 0,4     | 0,9     |                                                                                   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                      |                                                                                       |                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |  |  |                                                                                      |                                                                                       |                                                                                       |
|                                                                                   | ACMT060202R-G55 | 0,2     | 1       |                                                                                   |    |    |    |    |                                                                                      |    |    |                                                                                     |                                                                                     |                                                                                     |    |    |                                                                                   |                                                                                   |                                                                                      |    |    |
|                                                                                   | ACMT060204R-G55 | 0,4     | 0,9     |  |    |    |    |    |   |    |    |  |  |  |    |    |                                                                                   |                                                                                   |  |   |   |
|                                                                                   | ACMT060204R-K55 | 0,4     | 0,9     |                                                                                   |   |   |   |   |  |   |   |                                                                                     |                                                                                     |                                                                                     |   |   |                                                                                   |                                                                                   |  |   |   |
|                                                                                   | ACMT060208R-G55 | 0,8     | 0,8     |                                                                                   |  |  |  |  |                                                                                      |  |  |                                                                                     |                                                                                     |                                                                                     |  |  |                                                                                   |                                                                                   |                                                                                      |  |  |
|                                                                                   | ACMT060212R-G55 | 1,2     | 0,6     |                                                                                   |  |  |  |  |                                                                                      |  |  |                                                                                     |                                                                                     |                                                                                     |  |  |                                                                                   |                                                                                   |                                                                                      |  |  |
|                                                                                   | ACMT060216R-G55 | 1,6     | 0,1     |                                                                                   |  |  |  |  |                                                                                      |  |  |                                                                                     |                                                                                     |                                                                                     |  |  |                                                                                   |                                                                                   |                                                                                      |  |  |

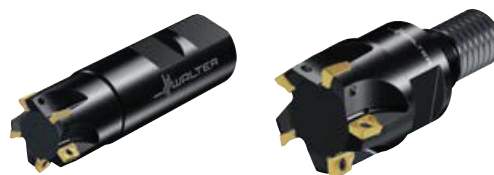
HC = Coated carbide  
HW = Uncoated carbide

# Shoulder milling cutters

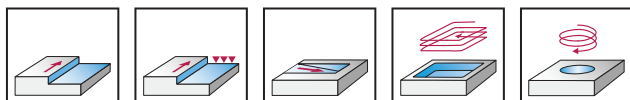
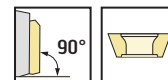
M5130 inch

AC .. 0602 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert



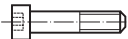
|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                           | Designation         | D <sub>c</sub><br>inch | d <sub>1</sub><br>inch | l <sub>4</sub><br>inch | l <sub>1</sub><br>inch | L <sub>c</sub><br>inch | Z  | lbs   | No. of<br>indexable<br>inserts | Type            |
|------------------------------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----|-------|--------------------------------|-----------------|
| ScrewFit<br>                                   | M5130.013-T09-03-05 | 0,500                  | T09                    | 0,787                  |                        | 0,197                  | 3  | 0,001 | 3                              | AC .. 0602 .. R |
|                                                | M5130.015-T14-03-05 | 0,625                  | T14                    | 0,984                  |                        | 0,197                  | 3  | 0,001 | 3                              |                 |
|                                                | M5130.015-T14-04-05 | 0,625                  | T14                    | 0,984                  |                        | 0,197                  | 4  | 0,002 | 4                              |                 |
|                                                | M5130.019-T18-04-05 | 0,750                  | T18                    | 0,984                  |                        | 0,197                  | 4  | 0,002 | 4                              |                 |
|                                                | M5130.019-T18-05-05 | 0,750                  | T18                    | 0,984                  |                        | 0,197                  | 5  | 0,002 | 5                              |                 |
|                                                | M5130.026-T22-05-05 | 1,000                  | T22                    | 1,181                  |                        | 0,197                  | 5  | 0,004 | 5                              |                 |
|                                                | M5130.026-T22-07-05 | 1,000                  | T22                    | 1,181                  |                        | 0,197                  | 7  | 0,004 | 7                              |                 |
|                                                | M5130.031-T28-06-05 | 1,250                  | T28                    | 1,378                  |                        | 0,197                  | 6  | 0,008 | 6                              |                 |
|                                                | M5130.031-T28-08-05 | 1,250                  | T28                    | 1,378                  |                        | 0,197                  | 8  | 0,008 | 8                              |                 |
|                                                | M5130.038-T36-07-05 | 1,500                  | T36                    | 1,378                  |                        | 0,197                  | 7  | 0,014 | 7                              |                 |
|                                                | M5130.038-T36-10-05 | 1,500                  | T36                    | 1,378                  |                        | 0,197                  | 10 | 0,014 | 10                             |                 |
| DIN 1835 B<br>                                 | M5130.013-W13-03-05 | 0,500                  | 0,500                  | 0,700                  | 2,281                  | 0,197                  | 3  | 0,002 | 3                              | AC .. 0602 .. R |
|                                                | M5130.015-W15-03-05 | 0,625                  | 0,625                  | 0,750                  | 2,656                  | 0,197                  | 3  | 0,004 | 3                              |                 |
|                                                | M5130.015-W15-04-05 | 0,625                  | 0,625                  | 0,750                  | 2,656                  | 0,197                  | 4  | 0,004 | 4                              |                 |
|                                                | M5130.019-W19-04-05 | 0,750                  | 0,750                  | 0,945                  | 2,781                  | 0,197                  | 4  | 0,005 | 4                              |                 |
|                                                | M5130.019-W19-05-05 | 0,750                  | 0,750                  | 0,945                  | 2,781                  | 0,197                  | 5  | 0,005 | 5                              |                 |
|                                                | M5130.026-W26-05-05 | 1,000                  | 1,000                  | 1,000                  | 3,281                  | 0,197                  | 5  | 0,011 | 5                              |                 |
|                                                | M5130.026-W26-07-05 | 1,000                  | 1,000                  | 1,000                  | 3,281                  | 0,197                  | 7  | 0,011 | 7                              |                 |
| Cylindrical shank<br>                          | M5130.013-A13-03-05 | 0,500                  | 0,500                  | 0,750                  | 2,531                  | 0,197                  | 3  | 0,002 | 3                              | AC .. 0602 .. R |
|                                                | M5130.015-A15-03-05 | 0,625                  | 0,625                  | 0,750                  | 3,566                  | 0,197                  | 3  | 0,005 | 3                              |                 |
|                                                | M5130.015-A15-04-05 | 0,625                  | 0,625                  | 0,750                  | 3,566                  | 0,197                  | 4  | 0,005 | 4                              |                 |
|                                                | M5130.019-A19-04-05 | 0,750                  | 0,750                  | 1,000                  | 4,250                  | 0,197                  | 4  | 0,008 | 4                              |                 |
|                                                | M5130.019-A19-05-05 | 0,750                  | 0,750                  | 1,000                  | 4,250                  | 0,197                  | 5  | 0,008 | 5                              |                 |
|                                                | M5130.026-A26-05-05 | 1,000                  | 1,000                  | 1,000                  | 4,750                  | 0,197                  | 5  | 0,017 | 5                              |                 |
|                                                | M5130.026-A26-07-05 | 1,000                  | 1,000                  | 1,000                  | 4,750                  | 0,197                  | 7  | 0,017 | 7                              |                 |
| Parallel bore DIN 138<br>transverse keyway<br> | M5130.051-B19-09-05 | 2,000                  | 0,750                  | 1,575                  |                        | 0,197                  | 9  | 0,016 | 9                              | AC .. 0602 .. R |
|                                                | M5130.051-B19-12-05 | 2,000                  | 0,750                  | 1,575                  |                        | 0,197                  | 12 | 0,016 | 12                             |                 |
|                                                | M5130.064-B26-11-05 | 2,500                  | 1,000                  | 1,575                  |                        | 0,197                  | 11 | 0,026 | 11                             |                 |
|                                                | M5130.064-B26-14-05 | 2,500                  | 1,000                  | 1,575                  |                        | 0,197                  | 14 | 0,026 | 14                             |                 |

Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,5–1,5                 | 2                       | 2,5                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2560 (T6IP)<br>0,5 Nm | FS2560 (T6IP)<br>0,5 Nm | FS2560 (T6IP)<br>0,5 Nm |
|  | Clamping screw for<br>arbour-mounted tools               |                         | FS1518                  | FS1519                  |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,5–2,5           |
|-----------------------------------------------------------------------------------|------------------------------|-------------------|
|  | Torque screwdriver, analogue | FS2002            |
|  | Interchangeable blade        | SD2001-6IP (T6IP) |
|  | Screwdriver                  | SD1001-6IP (T6IP) |

## Indexable inserts

|                                                                                   | Designation     | r<br>mm | b<br>mm | P                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       | M                                                                                     |                                                                                       | K                                                                                     |                                                                                       |                                                                                       |                                                                                       | N                                                                                     |                                                                                       | S                                                                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|---------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                   |                 |         |         | HC                                                                                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    |                                                                                       | HC                                                                                    |                                                                                       |                                                                                       |                                                                                       | HC                                                                                    | HW                                                                                    | HC                                                                                  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                     |
|                                                                                   |                 |         |         | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WSM35S                                                                                | WSP45G                                                                                | WSP45S                                                                                | WAK15                                                                                 | WKK25S                                                                                | WKP25S                                                                                | WKP35G                                                                                | WKP35S                                                                                | WXN15                                                                               | WK10                                                                                  | WSM35S                                                                                | WSP45G                                                                                | WSP45S                                                                                |                                                                                     |
|  | ACGT060204R-G65 | 0,4     | 0,9     |    |    |    |    |    |    |    |    |                                                                                       |                                                                                       |    |    |    |                                                                                     |    |    |    |    |  |
|                                                                                   | ACGT060204R-M85 | 0,4     | 0,9     |                                                                                     |    |    |    |    |                                                                                       |    |    |                                                                                       |                                                                                       |    |    |    |  |    |                                                                                       |    |    |                                                                                     |
|                                                                                   | ACMT060202R-G55 | 0,2     | 1       |                                                                                     |   |   |   |   |                                                                                       |   |   |                                                                                       |                                                                                       |   |   |   |                                                                                     |                                                                                       |                                                                                       |   |   |                                                                                     |
|                                                                                   | ACMT060204R-G55 | 0,4     | 0,9     |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                     |  |  |  |                                                                                       |                                                                                     |
|                                                                                   | ACMT060204R-K55 | 0,4     | 0,9     |                                                                                     |  |  |  |  |  |  |  |                                                                                       |                                                                                       |  |  |  |                                                                                     |  |  |  |                                                                                       |                                                                                     |
|                                                                                   | ACMT060208R-G55 | 0,8     | 0,8     |                                                                                     |  |  |  |  |                                                                                       |  |  |                                                                                       |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |  |  |                                                                                     |
|                                                                                   | ACMT060212R-G55 | 1,2     | 0,6     |                                                                                     |  |  |  |  |                                                                                       |  |  |                                                                                       |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |  |  |                                                                                     |
|                                                                                   | ACMT060216R-G55 | 1,6     | 0,1     |                                                                                     |  |  |  |  |                                                                                       |  |  |                                                                                       |                                                                                       |  |  |  |                                                                                     |                                                                                       |                                                                                       |  |  |                                                                                     |

HC = Coated carbide  
HW = Uncoated carbide

# Shoulder milling cutters

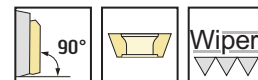
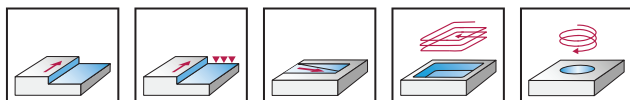
M5130 mm

BC .. 0903 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                       | Designation          | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z  | kg   | No. of<br>indexable<br>inserts | Type            |
|--------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----|------|--------------------------------|-----------------|
| ScrewFit                                   | M5130-016-T14-02-09  | 16                   | T14                  | 25                   |                      | 9                    | 2  | 0,03 | 2                              | BC .. 0903 .. R |
|                                            | M5130-020-T18-02-09  | 20                   | T18                  | 30                   |                      | 9                    | 2  | 0,05 | 2                              |                 |
|                                            | M5130-020-T18-03-09  | 20                   | T18                  | 30                   |                      | 9                    | 3  | 0,05 | 3                              |                 |
|                                            | M5130-025-T22-03-09  | 25                   | T22                  | 35                   |                      | 9                    | 3  | 0,09 | 3                              |                 |
|                                            | M5130-025-T22-04-09  | 25                   | T22                  | 35                   |                      | 9                    | 4  | 0,09 | 4                              |                 |
|                                            | M5130-032-T28-04-09  | 32                   | T28                  | 40                   |                      | 9                    | 4  | 0,18 | 4                              |                 |
|                                            | M5130-032-T28-05-09  | 32                   | T28                  | 40                   |                      | 9                    | 5  | 0,19 | 5                              |                 |
| Cylindrical, modular                       | M5130-016-TC08-02-09 | 16                   | M8                   | 25                   |                      | 9                    | 2  | 0,03 | 2                              | BC .. 0903 .. R |
|                                            | M5130-020-TC10-02-09 | 20                   | M10                  | 30                   |                      | 9                    | 2  | 0,05 | 2                              |                 |
|                                            | M5130-020-TC10-03-09 | 20                   | M10                  | 30                   |                      | 9                    | 3  | 0,05 | 3                              |                 |
|                                            | M5130-025-TC12-03-09 | 25                   | M12                  | 35                   |                      | 9                    | 3  | 0,09 | 3                              |                 |
|                                            | M5130-025-TC12-04-09 | 25                   | M12                  | 35                   |                      | 9                    | 4  | 0,09 | 4                              |                 |
|                                            | M5130-032-TC16-04-09 | 32                   | M16                  | 40                   |                      | 9                    | 4  | 0,17 | 4                              |                 |
|                                            | M5130-032-TC16-05-09 | 32                   | M16                  | 40                   |                      | 9                    | 5  | 0,18 | 5                              |                 |
| DIN 1835 B                                 | M5130-016-W16-02-09  | 16                   | 16                   | 41                   | 90                   | 9                    | 2  | 0,12 | 2                              | BC .. 0903 .. R |
|                                            | M5130-020-W20-03-09  | 20                   | 20                   | 39                   | 90                   | 9                    | 3  | 0,18 | 3                              |                 |
|                                            | M5130-025-W25-04-09  | 25                   | 25                   | 43                   | 100                  | 9                    | 4  | 0,31 | 4                              |                 |
|                                            | M5130-032-W32-05-09  | 32                   | 32                   | 49                   | 110                  | 9                    | 5  | 0,57 | 5                              |                 |
|                                            |                      |                      |                      |                      |                      |                      |    |      |                                |                 |
| Cylindrical shank                          | M5130-016-A16-02-09  | 16                   | 16                   | 41                   | 180                  | 9                    | 2  | 0,25 | 2                              | BC .. 0903 .. R |
|                                            | M5130-018-A16-02-09  | 18                   | 16                   | 41                   | 180                  | 9                    | 2  | 0,26 | 2                              |                 |
|                                            | M5130-020-A20-02-09  | 20                   | 20                   | 39                   | 200                  | 9                    | 2  | 0,44 | 2                              |                 |
|                                            | M5130-020-A20-03-09  | 20                   | 20                   | 39                   | 200                  | 9                    | 3  | 0,44 | 3                              |                 |
|                                            | M5130-022-A20-03-09  | 22                   | 20                   | 39                   | 200                  | 9                    | 3  | 0,44 | 3                              |                 |
|                                            | M5130-025-A25-03-09  | 25                   | 25                   | 43                   | 200                  | 9                    | 3  | 0,68 | 3                              |                 |
|                                            | M5130-025-A25-04-09  | 25                   | 25                   | 43                   | 200                  | 9                    | 4  | 0,68 | 4                              |                 |
|                                            |                      |                      |                      |                      |                      |                      |    |      |                                |                 |
| Parallel bore DIN 138<br>transverse keyway | M5130-032-B16-03-09  | 32                   | 16                   | 40                   |                      | 9                    | 3  | 0,12 | 3                              | BC .. 0903 .. R |
|                                            | M5130-032-B16-06-09  | 32                   | 16                   | 40                   |                      | 9                    | 6  | 0,12 | 6                              |                 |
|                                            | M5130-040-B16-04-09  | 40                   | 16                   | 40                   |                      | 9                    | 4  | 0,19 | 4                              |                 |
|                                            | M5130-040-B16-07-09  | 40                   | 16                   | 40                   |                      | 9                    | 7  | 0,21 | 7                              |                 |
|                                            | M5130-050-B22-05-09  | 50                   | 22                   | 40                   |                      | 9                    | 5  | 0,32 | 5                              |                 |
|                                            | M5130-050-B22-08-09  | 50                   | 22                   | 40                   |                      | 9                    | 8  | 0,34 | 8                              |                 |
|                                            | M5130-063-B22-07-09  | 63                   | 22                   | 40                   |                      | 9                    | 7  | 0,5  | 7                              |                 |
|                                            | M5130-063-B22-11-09  | 63                   | 22                   | 40                   |                      | 9                    | 11 | 0,51 | 11                             |                 |
|                                            |                      |                      |                      |                      |                      |                      |    |      |                                |                 |

Bodies and assembly parts are included in the scope of delivery.

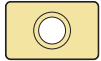
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 16–63                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2576 (T8IP)<br>1,2 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 16–63         |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2001        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2012 (T8IP) |
|  | Screwdriver                  | FS1483 (T8IP) |

## Indexable inserts

|                                                                                     | Designation     | r<br>mm | b<br>mm | P      |        |        |        | M      |        | K      |       |       |        |        |        |        | N     |       | S    |        |        | H      |
|-------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|--------|--------|
|                                                                                     |                 |         |         | HC     |        |        |        | HC     |        | HC     |       |       |        |        |        |        | HC    | HW    | HC   |        |        | HC     |
|                                                                                     |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSM35S | WSM45X | WSP45G | WAK15 | WHH15 | WKK25S | WKP25S | WKP35G | WKP35S | WXM15 | WXN15 | WK10 | WSM35S | WSM45X | WSP45G |
|    | BCGT090304R-G55 | 0,4     | 1,2     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |       |       | ⊕      | ⊕      | ⊕      |        |       | ⊕     |      | ⊕      |        |        |
|                                                                                     | BCGT090304R-K85 | 0,4     | 1,2     |        |        |        |        |        |        |        |       |       |        |        |        |        | ⊕     | ⊕     |      |        |        |        |
|                                                                                     | BCMT090302R-G55 | 0,2     | 1,4     |        | ⊕      | ⊕      | ⊕      |        |        |        |       |       | ⊕      | ⊕      | ⊕      |        |       |       |      | ⊕      |        |        |
|                                                                                     | BCMT090304R-F55 | 0,4     | 1,2     | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      |       |       | ⊕      | ⊕      | ⊕      |        |       |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT090304R-G55 | 0,4     | 1,2     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |       |       | ⊕      | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      | ⊕      |        |
|                                                                                     | BCMT090304R-K55 | 0,4     | 1,2     |        | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        |       |       |        | ⊕      | ⊕      |        |       | ⊕     |      | ⊕      |        |        |
|                                                                                     | BCMT090308R-G55 | 0,8     | 0,8     |        | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      |       |       |        | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |        |
|                                                                                     | BCMT090312R-G55 | 1,2     | 0,4     |        | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      |       |       |        | ⊕      | ⊕      |        |       |       |      | ⊕      | ⊕      |        |
|                                                                                     | BCMT090316R-G55 | 1,6     | 0,4     |        | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      |       |       |        | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |        |
|                                                                                     | BCMT090320R-G55 | 2       | 0,4     |        | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      |       |       |        | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |        |
| BCMT090330R-G55                                                                     | 3               | 0,4     |         |        |        |        |        | ⊕      | ⊕      |        |       |       |        |        |        |        |       | ⊕     | ⊕    |        |        |        |
|  | BCGX0903PDR-G55 | 0,4     | 5       |        |        |        |        |        |        |        | ⊕     | ⊕     |        |        |        | ⊕      |       |       |      |        | ⊕      |        |

HC = Coated carbide  
HW = Uncoated carbide

# Shoulder milling cutters

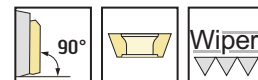
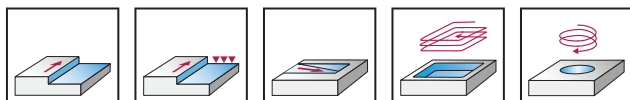
M5130 inch

BC .. 0903 .. R

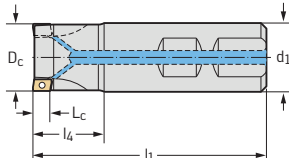
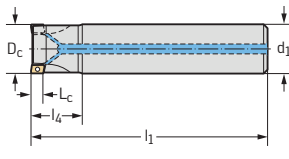
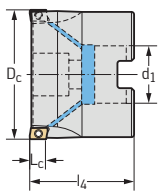
Xtra-tec® XT



– 2 cutting edges per indexable insert

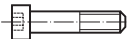


|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

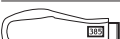
| Tool                                                                                                                           | Designation         | D <sub>c</sub><br>inch | d <sub>1</sub><br>inch | l <sub>4</sub><br>inch | l <sub>1</sub><br>inch | L <sub>c</sub><br>inch | Z |  lbs | No. of<br>indexable<br>inserts | Type            |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---|-----------------------------------------------------------------------------------------|--------------------------------|-----------------|
|  DIN 1835 B                                   | M5130.015-W15-02-09 | 0,625                  | 0,625                  | 0,945                  | 2,851                  | 0,354                  | 2 | 0,004                                                                                   | 2                              | BC .. 0903 .. R |
|                                                                                                                                | M5130.019-W19-03-09 | 0,750                  | 0,750                  | 1,535                  | 3,567                  | 0,354                  | 3 | 0,006                                                                                   | 3                              |                 |
|                                                                                                                                | M5130.026-W26-03-09 | 1,000                  | 1,000                  | 1,181                  | 3,462                  | 0,354                  | 3 | 0,011                                                                                   | 3                              |                 |
|                                                                                                                                | M5130.026-W26-04-09 | 1,000                  | 1,000                  | 1,181                  | 3,462                  | 0,354                  | 4 | 0,011                                                                                   | 4                              |                 |
|  Cylindrical shank                           | M5130.015-A15-02-09 | 0,625                  | 0,625                  | 1,630                  | 7,000                  | 0,354                  | 2 | 0,010                                                                                   | 2                              | BC .. 0903 .. R |
|                                                                                                                                | M5130.019-A19-02-09 | 0,750                  | 0,750                  | 1,630                  | 8,000                  | 0,354                  | 2 | 0,015                                                                                   | 2                              |                 |
|                                                                                                                                | M5130.026-A26-03-09 | 1,000                  | 1,000                  | 1,750                  | 8,000                  | 0,354                  | 3 | 0,028                                                                                   | 3                              |                 |
|  Parallel bore DIN 138<br>transverse keyway | M5130.051-B19-05-09 | 2,000                  | 0,750                  | 1,575                  |                        | 0,354                  | 5 | 0,014                                                                                   | 5                              | BC .. 0903 .. R |
|                                                                                                                                | M5130.051-B19-08-09 | 2,000                  | 0,750                  | 1,575                  |                        | 0,354                  | 8 | 0,014                                                                                   | 8                              |                 |

Bodies and assembly parts are included in the scope of delivery.

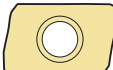
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,62–1                  | 2                       |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2576 (T8IP)<br>1,2 Nm | FS2576 (T8IP)<br>1,2 Nm |
|  | Clamping screw for<br>arbour-mounted tools               |                         | FS1523                  |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,62–2        |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2002        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2012 (T8IP) |
|  | Screwdriver                  | FS1483 (T8IP) |

## Indexable inserts

|                                                                                     | Designation     | r<br>mm | b<br>mm | P      |        |        |        | M      |        | K      |       |       |        |        | N      |        | S     |       |      | H      |        |
|-------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|--------|
|                                                                                     |                 |         |         | HC     |        |        |        | HC     |        | HC     |       |       |        |        | HC     | HW     | HC    |       |      | HC     |        |
|                                                                                     |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSM35S | WSM45X | WSP45G | WAK15 | WHH15 | WKK25S | WKP25S | WKP35G | WKP35S | WXM15 | WXN15 | WK10 | WSM35S | WSM45X |
|   | BCGT090304R-G55 | 0,4     | 1,2     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |       |       | ⊕      | ⊕      | ⊕      |        | ⊕     | ⊕     |      | ⊕      |        |
|                                                                                     | BCGT090304R-K85 | 0,4     | 1,2     |        |        |        |        |        |        |        |       |       |        |        |        |        | ⊕     | ⊕     |      |        |        |
|                                                                                     | BCMT090302R-G55 | 0,2     | 1,4     |        | ⊕      | ⊕      | ⊕      |        |        |        |       |       | ⊕      | ⊕      | ⊕      |        |       |       |      | ⊕      |        |
|                                                                                     | BCMT090304R-F55 | 0,4     | 1,2     | ⊕      | ⊕      | ⊕      | ⊕      |        |        |        |       |       | ⊕      | ⊕      | ⊕      |        |       |       |      | ⊕      | ⊕      |
|                                                                                     | BCMT090304R-G55 | 0,4     | 1,2     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |       | ⊕     | ⊕      | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |
|                                                                                     | BCMT090304R-K55 | 0,4     | 1,2     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      |       |       | ⊕      | ⊕      | ⊕      |        |       | ⊕     | ⊕    | ⊕      |        |
|                                                                                     | BCMT090308R-G55 | 0,8     | 0,8     |        | ⊕      | ⊕      | ⊕      |        | ⊕      |        |       |       |        | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |
|                                                                                     | BCMT090312R-G55 | 1,2     | 0,4     |        | ⊕      | ⊕      | ⊕      |        |        |        |       |       |        | ⊕      | ⊕      |        |       |       |      | ⊕      |        |
|                                                                                     | BCMT090316R-G55 | 1,6     | 0,4     |        | ⊕      | ⊕      | ⊕      |        |        | ⊕      |       |       |        | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |
|                                                                                     | BCMT090320R-G55 | 2       | 0,4     |        | ⊕      | ⊕      | ⊕      |        |        | ⊕      |       |       |        | ⊕      | ⊕      |        |       |       | ⊕    | ⊕      |        |
| BCMT090330R-G55                                                                     | 3               | 0,4     |         |        |        |        |        | ⊕      |        |        |       |       |        |        |        |        |       | ⊕     | ⊕    |        |        |
|  | BCGX0903PDR-G55 | 0,4     | 5       |        |        |        |        |        |        |        | ⊕     | ⊕     |        |        |        | ⊕      |       |       |      |        | ⊕      |

HC = Coated carbide  
HW = Uncoated carbide

# Shoulder milling cutters

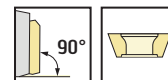
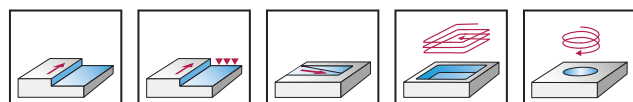
M5130 mm

BC .. 1204 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

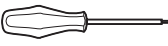
| Tool                 | Designation          | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>indexable<br>inserts | Type            |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|--------------------------------|-----------------|
| ScrewFit             | M5130-025-T22-03-12  | 25                   | T22                  | 35                   |                      | 12                   | 3 | 0,09 | 3                              | BC .. 1204 .. R |
|                      | M5130-032-T28-03-12  | 32                   | T28                  | 40                   |                      | 12                   | 3 | 0,17 | 3                              |                 |
|                      | M5130-032-T28-04-12  | 32                   | T28                  | 40                   |                      | 12                   | 4 | 0,18 | 4                              |                 |
|                      | M5130-040-T36-03-12  | 40                   | T36                  | 40                   |                      | 12                   | 3 | 0,31 | 3                              |                 |
|                      | M5130-040-T36-06-12  | 40                   | T36                  | 40                   |                      | 12                   | 6 | 0,32 | 6                              |                 |
| Cylindrical, modular | M5130-025-TC12-03-12 | 25                   | M12                  | 35                   |                      | 12                   | 3 | 0,08 | 3                              | BC .. 1204 .. R |
|                      | M5130-032-TC16-03-12 | 32                   | M16                  | 40                   |                      | 12                   | 3 | 0,16 | 3                              |                 |
|                      | M5130-032-TC16-04-12 | 32                   | M16                  | 40                   |                      | 12                   | 4 | 0,17 | 4                              |                 |
|                      | M5130-040-TC16-03-12 | 40                   | M16                  | 40                   |                      | 12                   | 3 | 0,21 | 3                              |                 |
|                      | M5130-040-TC16-06-12 | 40                   | M16                  | 40                   |                      | 12                   | 6 | 0,22 | 6                              |                 |
| DIN 1835 B           | M5130-025-W25-03-12  | 25                   | 25                   | 43                   | 100                  | 12                   | 3 | 0,3  | 3                              | BC .. 1204 .. R |
|                      | M5130-032-W32-03-12  | 32                   | 32                   | 49                   | 110                  | 12                   | 3 | 0,53 | 3                              |                 |
|                      | M5130-032-W32-04-12  | 32                   | 32                   | 49                   | 110                  | 12                   | 4 | 0,54 | 4                              |                 |
|                      | M5130-040-W32-06-12  | 40                   | 32                   | 49                   | 110                  | 12                   | 6 | 0,65 | 6                              |                 |
| Cylindrical shank    | M5130-022-A20-02-12  | 22                   | 20                   | 38                   | 200                  | 12                   | 2 | 0,45 | 2                              | BC .. 1204 .. R |
|                      | M5130-025-A25-02-12  | 25                   | 25                   | 38                   | 200                  | 12                   | 2 | 0,69 | 2                              |                 |
|                      | M5130-025-A25-03-12  | 25                   | 25                   | 38                   | 200                  | 12                   | 3 | 0,68 | 3                              |                 |
|                      | M5130-032-A32-03-12  | 32                   | 32                   | 39                   | 250                  | 12                   | 3 | 1,4  | 3                              |                 |
|                      | M5130-032-A32-04-12  | 32                   | 32                   | 39                   | 250                  | 12                   | 4 | 1,42 | 4                              |                 |
|                      | M5130-040-A32-05-12  | 40                   | 32                   | 44                   | 250                  | 12                   | 5 | 1,51 | 5                              |                 |
|                      | M5130-040-A40-04-12  | 40                   | 40                   | 44                   | 250                  | 12                   | 4 | 2,25 | 4                              |                 |
|                      |                      |                      |                      |                      |                      |                      |   |      |                                |                 |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 22–80                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2573 (T9IP)<br>2 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 22–80         |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2003        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2013 (T9IP) |
|  | Screwdriver                  | FS1484 (T9IP) |

## Indexable inserts

|                                                                                    | Designation     | r<br>mm | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |        |        |        |        | N     |      | S      |        |        |        |
|------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|------|--------|--------|--------|--------|
|                                                                                    |                 |         |         | HC     |        |        |        |        | HC     |        |        |        | HC    |        |        |        |        | HC    | HW   | HC     |        |        |        |
|                                                                                    |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WKK25S | WKP25S | WKP35G | WKP35S | WXN15 | WK10 | WSM35S | WSM45X | WSP45G | WSP45S |
|  | BCGT120408R-G55 | 0,8     | 1,3     | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      | ☺     | ☺    | ☺      | ☺      | ☺      | ☺      |
|                                                                                    | BCHT120404R-K85 | 0,4     | 1,7     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☹     | ☹    |        |        |        |        |
|                                                                                    | BCHT120408R-K85 | 0,8     | 1,3     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCHT120412R-K85 | 1,2     | 1,2     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCHT120416R-K85 | 1,6     | 1,1     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCHT120420R-K85 | 2       | 1,2     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCHT120425R-K85 | 2,5     | 1       |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCHT120430R-K85 | 3       | 0,7     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCHT120440R-K85 | 4       | 0,4     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ☺     | ☺    |        |        |        |        |
|                                                                                    | BCMT120404R-G55 | 0,4     | 1,3     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☺      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☺      | ☺      |
|                                                                                    | BCMT120408R-F55 | 0,8     | 1,3     | ☺      | ☺      | ☺      | ☹      | ☺      |        |        | ☹      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |
|                                                                                    | BCMT120408R-G55 | 0,8     | 1,3     | ☺      | ☺      | ☺      | ☺      | ☺      |        |        | ☺      | ☺      | ☺     | ☺      | ☺      | ☺      | ☺      |       |      | ☺      |        | ☺      | ☺      |
|                                                                                    | BCMT120408R-K55 | 0,8     | 1,3     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        |        | ☺      |       |        | ☺      | ☺      | ☺      |       |      | ☺      |        | ☺      | ☺      |
|                                                                                    | BCMT120412R-G55 | 1,2     | 1,2     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☹      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |
|                                                                                    | BCMT120416R-G55 | 1,6     | 1,1     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☹      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |
|                                                                                    | BCMT120420R-G55 | 2       | 1,2     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☹      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |
|                                                                                    | BCMT120425R-G55 | 2,5     | 1       |        | ☺      | ☺      | ☹      | ☺      |        |        | ☹      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |
|                                                                                    | BCMT120430R-G55 | 3       | 0,7     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☹      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |
|                                                                                    | BCMT120432R-G55 | 3,2     | 0,5     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☺      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☺      | ☺      |
|                                                                                    | BCMT120440R-G55 | 4       | 0,4     |        | ☺      | ☺      | ☺      | ☺      |        |        | ☹      | ☺      |       |        | ☺      | ☺      | ☺      |       |      |        |        | ☹      | ☺      |

If the corner radius r is greater than 2.5 mm, the corner area of the body must be reworked.

R (body) = r (indexable insert) – 1 mm

HC = Coated carbide

HW = Uncoated carbide

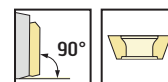
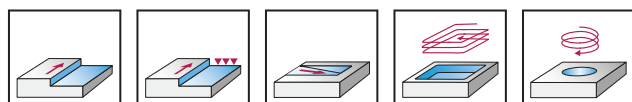
# Shoulder milling cutters

M5130 mm

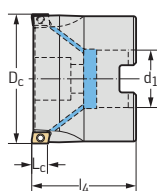
BC .. 1204 .. R  
Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                                                                                                | Designation         | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>indexable<br>inserts | Type            |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|--------------------------------|-----------------|
| Parallel bore DIN 138<br>transverse keyway<br><br> | M5130-040-B16-03-12 | 40                   | 16                   | 40                   |                      | 12                   | 3 | 0,17 | 3                              | BC .. 1204 .. R |
|                                                                                                                                     | M5130-040-B16-04-12 | 40                   | 16                   | 40                   |                      | 12                   | 4 | 0,18 | 4                              |                 |
|                                                                                                                                     | M5130-040-B16-06-12 | 40                   | 16                   | 40                   |                      | 12                   | 6 | 0,19 | 6                              |                 |
|                                                                                                                                     | M5130-050-B22-03-12 | 50                   | 22                   | 40                   |                      | 12                   | 3 | 0,32 | 3                              |                 |
|                                                                                                                                     | M5130-050-B22-04-12 | 50                   | 22                   | 40                   |                      | 12                   | 4 | 0,29 | 4                              |                 |
|                                                                                                                                     | M5130-050-B22-07-12 | 50                   | 22                   | 40                   |                      | 12                   | 7 | 0,31 | 7                              |                 |
|                                                                                                                                     | M5130-063-B22-04-12 | 63                   | 22                   | 40                   |                      | 12                   | 4 | 0,45 | 4                              |                 |
|                                                                                                                                     | M5130-063-B22-05-12 | 63                   | 22                   | 40                   |                      | 12                   | 5 | 0,47 | 5                              |                 |
|                                                                                                                                     | M5130-063-B22-08-12 | 63                   | 22                   | 40                   |                      | 12                   | 8 | 0,5  | 8                              |                 |
|                                                                                                                                     | M5130-063-B27-04-12 | 63                   | 27                   | 50                   |                      | 12                   | 4 | 0,66 | 4                              |                 |
|                                                                                                                                     | M5130-063-B27-05-12 | 63                   | 27                   | 50                   |                      | 12                   | 5 | 0,67 | 5                              |                 |
|                                                                                                                                     | M5130-063-B27-08-12 | 63                   | 27                   | 50                   |                      | 12                   | 8 | 0,71 | 8                              |                 |
|                                                                                                                                     | M5130-080-B27-05-12 | 80                   | 27                   | 50                   |                      | 12                   | 5 | 0,91 | 5                              |                 |
|                                                                                                                                     | M5130-080-B27-06-12 | 80                   | 27                   | 50                   |                      | 12                   | 6 | 0,94 | 6                              |                 |
|                                                                                                                                     | M5130-080-B27-09-12 | 80                   | 27                   | 50                   |                      | 12                   | 9 | 1    | 9                              |                 |

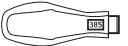
Bodies and assembly parts are included in the scope of delivery.



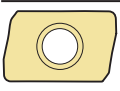
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 22–80                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2573 (T9IP)<br>2 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 22–80         |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2003        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2013 (T9IP) |
|  | Screwdriver                  | FS1484 (T9IP) |

## Indexable inserts

|                                                                                    | Designation     | r<br>mm | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |        |        |        |        | N     |      | S      |        |        |        |
|------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|------|--------|--------|--------|--------|
|                                                                                    |                 |         |         | HC     |        |        |        |        | HC     |        |        |        | HC    |        |        |        |        | HC    | HW   | HC     |        |        |        |
|                                                                                    |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WKK25S | WKP25S | WKP35G | WKP35S | WXN15 | WK10 | WSM35S | WSM45X | WSP45G | WSP45S |
|  | BCGT120408R-G55 | 0,8     | 1,3     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕     | ⊕    | ⊕      | ⊕      | ⊕      | ⊕      |
|                                                                                    | BCHT120404R-K85 | 0,4     | 1,7     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120408R-K85 | 0,8     | 1,3     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120412R-K85 | 1,2     | 1,2     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120416R-K85 | 1,6     | 1,1     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120420R-K85 | 2       | 1,2     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120425R-K85 | 2,5     | 1       |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120430R-K85 | 3       | 0,7     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120440R-K85 | 4       | 0,4     |        |        |        |        |        |        |        |        |        |       |        |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCMT120404R-G55 | 0,4     | 1,3     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120408R-F55 | 0,8     | 1,3     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120408R-G55 | 0,8     | 1,3     | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕      |       |      | ⊕      |        | ⊕      | ⊕      |
|                                                                                    | BCMT120408R-K55 | 0,8     | 1,3     |        | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      | ⊕      |        | ⊕      | ⊕      |
|                                                                                    | BCMT120412R-G55 | 1,2     | 1,2     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120416R-G55 | 1,6     | 1,1     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120420R-G55 | 2       | 1,2     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120425R-G55 | 2,5     | 1       |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120430R-G55 | 3       | 0,7     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120432R-G55 | 3,2     | 0,5     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |
|                                                                                    | BCMT120440R-G55 | 4       | 0,4     |        | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊕      | ⊕      | ⊕      |       |        | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊕      | ⊕      |

If the corner radius r is greater than 2.5 mm, the corner area of the body must be reworked.

R (body) = r (indexable insert) – 1 mm

HC = Coated carbide

HW = Uncoated carbide

# Shoulder milling cutters

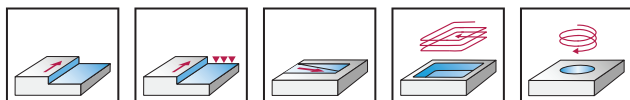
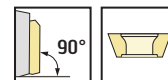
M5130 inch

BC .. 1204 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert

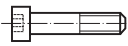


|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

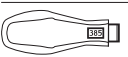
| Tool                                           | Designation         | D <sub>c</sub><br>inch | d <sub>1</sub><br>inch | l <sub>4</sub><br>inch | l <sub>1</sub><br>inch | L <sub>c</sub><br>inch | Z | lbs   | No. of<br>indexable<br>inserts | Type            |
|------------------------------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---|-------|--------------------------------|-----------------|
| <br>ScrewFit                                   | M5130.026-T22-03-12 | 1,000                  | T22                    | 1,378                  |                        | 0,472                  | 3 | 0,003 | 3                              | BC .. 1204 .. R |
|                                                | M5130.031-T28-03-12 | 1,250                  | T28                    | 1,575                  |                        | 0,472                  | 3 | 0,006 | 3                              |                 |
|                                                | M5130.031-T28-04-12 | 1,250                  | T28                    | 1,575                  |                        | 0,472                  | 4 | 0,007 | 4                              |                 |
|                                                | M5130.038-T36-06-12 | 1,500                  | T36                    | 1,575                  |                        | 0,472                  | 6 | 0,013 | 6                              |                 |
|                                                | M5130.051-T45-07-12 | 2,000                  | T45                    | 1,575                  |                        | 0,472                  | 7 | 0,019 | 7                              |                 |
| <br>DIN 1835 B                                 | M5130.019-W19-02-12 | 0,750                  | 0,750                  | 1,024                  | 3,059                  | 0,472                  | 2 | 0,005 | 2                              | BC .. 1204 .. R |
|                                                | M5130.026-W26-03-12 | 1,000                  | 1,000                  | 1,339                  | 3,280                  | 0,472                  | 3 | 0,010 | 3                              |                 |
|                                                | M5130.031-W31-04-12 | 1,250                  | 1,250                  | 1,417                  | 3,697                  | 0,472                  | 4 | 0,018 | 4                              |                 |
| <br>Cylindrical shank                          | M5130.019-A19-02-12 | 0,750                  | 0,750                  | 1,030                  | 7,530                  | 0,472                  | 2 | 0,015 | 2                              | BC .. 1204 .. R |
|                                                | M5130.026-A26-03-12 | 1,000                  | 1,000                  | 1,500                  | 8,000                  | 0,472                  | 3 | 0,028 | 3                              |                 |
|                                                | M5130.031-A31-04-12 | 1,250                  | 1,250                  | 1,630                  | 10,000                 | 0,472                  | 4 | 0,056 | 4                              |                 |
| <br>Parallel bore DIN 138<br>transverse keyway | M5130.038-B19-06-12 | 1,500                  | 0,750                  | 1,500                  |                        | 0,472                  | 6 | 0,006 | 6                              | BC .. 1204 .. R |
|                                                | M5130.051-B19-04-12 | 2,000                  | 0,750                  | 1,575                  |                        | 0,472                  | 4 | 0,011 | 4                              |                 |
|                                                | M5130.051-B19-07-12 | 2,000                  | 0,750                  | 1,575                  |                        | 0,472                  | 7 | 0,014 | 7                              |                 |
|                                                | M5130.064-B26-05-12 | 2,500                  | 1,000                  | 1,575                  |                        | 0,472                  | 5 | 0,022 | 5                              |                 |
|                                                | M5130.064-B26-08-12 | 2,500                  | 1,000                  | 1,575                  |                        | 0,472                  | 8 | 0,021 | 8                              |                 |
|                                                | M5130.076-B26-06-12 | 3,000                  | 1,000                  | 2,000                  |                        | 0,472                  | 6 | 0,036 | 6                              |                 |
|                                                | M5130.076-B26-09-12 | 3,000                  | 1,000                  | 2,000                  |                        | 0,472                  | 9 | 0,038 | 9                              |                 |

Bodies and assembly parts are included in the scope of delivery.

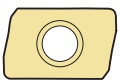
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,75–1,25             | 1,5–2                 | 2,5–3                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|-----------------------|-----------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2573 (T9IP)<br>2 Nm | FS2573 (T9IP)<br>2 Nm | FS2573 (T9IP)<br>2 Nm |
|  | Clamping screw for<br>arbour-mounted tools               |                       | FS1523                | FS1519                |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,75–3        |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2004        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2013 (T9IP) |
|  | Screwdriver                  | FS1484 (T9IP) |

## Indexable inserts

|                                                                                    | Designation     | r<br>mm | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |        |        |        | N     |      | S      |        |        |        |
|------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|------|--------|--------|--------|--------|
|                                                                                    |                 |         |         | HC     |        |        |        |        | HC     |        |        |        | HC    |        |        |        | HC    | HW   | HC     |        |        |        |
|                                                                                    |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WKP25S | WKP35G | WKP35S | WXN15 | WK10 | WSM35S | WSM45X | WSP45G | WSP45S |
|  | BCGT120408R-G55 | 0,8     | 1,3     | ⊕      | ⊕      | ⊕      | ⊗      | ⊗      | ⊕      |        | ⊗      | ⊗      | ⊕     | ⊕      | ⊕      | ⊕      | ⊕     | ⊕    | ⊕      | ⊗      | ⊗      | ⊗      |
|                                                                                    | BCHT120404R-K85 | 0,4     | 1,7     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120408R-K85 | 0,8     | 1,3     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120412R-K85 | 1,2     | 1,2     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120416R-K85 | 1,6     | 1,1     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120420R-K85 | 2       | 1,2     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120425R-K85 | 2,5     | 1       |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120430R-K85 | 3       | 0,7     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCHT120440R-K85 | 4       | 0,4     |        |        |        |        |        |        |        |        |        |       |        |        |        | ⊕     | ⊕    |        |        |        |        |
|                                                                                    | BCMT120404R-G55 | 0,4     | 1,3     |        | ⊕      | ⊕      | ⊗      | ⊗      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120408R-F55 | 0,8     | 1,3     | ⊕      | ⊕      | ⊕      | ⊗      | ⊗      |        |        | ⊗      | ⊗      | ⊕     | ⊕      | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120408R-G55 | 0,8     | 1,3     | ⊕      | ⊕      | ⊕      | ⊗      | ⊗      | ⊕      |        | ⊗      | ⊗      | ⊕     | ⊕      | ⊕      | ⊕      |       |      | ⊕      | ⊗      | ⊗      | ⊗      |
|                                                                                    | BCMT120408R-K55 | 0,8     | 1,3     |        | ⊕      | ⊕      | ⊕      | ⊕      | ⊕      |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      | ⊕      | ⊗      | ⊗      | ⊗      |
|                                                                                    | BCMT120412R-G55 | 1,2     | 1,2     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120416R-G55 | 1,6     | 1,1     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120420R-G55 | 2       | 1,2     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120425R-G55 | 2,5     | 1       |        | ⊕      | ⊕      | ⊗      | ⊗      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120430R-G55 | 3       | 0,7     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120432R-G55 | 3,2     | 0,5     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |
|                                                                                    | BCMT120440R-G55 | 4       | 0,4     |        | ⊕      | ⊕      | ⊕      | ⊕      |        |        | ⊗      | ⊗      |       |        | ⊕      | ⊕      |       |      |        |        | ⊗      | ⊗      |

If the corner radius r is greater than 2.5 mm, the corner area of the body must be reworked.

R (body) = r (indexable insert) – 1 mm

HC = Coated carbide

HW = Uncoated carbide

# Shoulder milling cutters

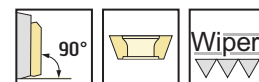
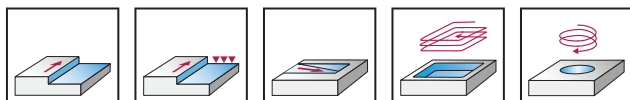
M5130

BC .. 1606 .. R

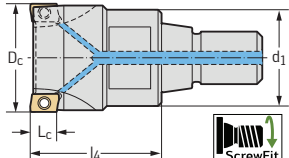
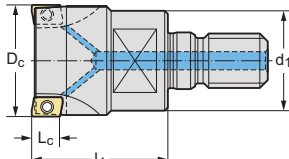
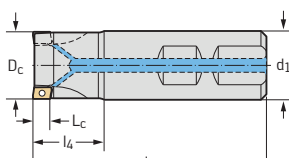
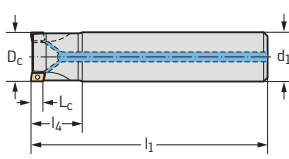
Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

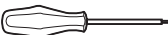
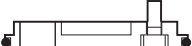
| Tool                                                                                | Designation          | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>indexable<br>inserts | Type            |
|-------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|--------------------------------|-----------------|
|    | M5130-032-T28-03-15  | 32                   | T28                  | 40                   |                      | 15                   | 3 | 0,16 | 3                              | BC .. 1606 .. R |
|                                                                                     | M5130-040-T36-03-15  | 40                   | T36                  | 40                   |                      | 15                   | 3 | 0,31 | 3                              |                 |
|                                                                                     | M5130-040-T36-04-15  | 40                   | T36                  | 40                   |                      | 15                   | 4 | 0,31 | 4                              |                 |
|                                                                                     | M5130-050-T45-03-15  | 50                   | T45                  | 40                   |                      | 15                   | 3 | 0,45 | 3                              |                 |
|                                                                                     | M5130-050-T45-06-15  | 50                   | T45                  | 40                   |                      | 15                   | 6 | 0,45 | 6                              |                 |
|   | M5130-032-TC16-03-15 | 32                   | M16                  | 40                   |                      | 15                   | 3 | 0,15 | 3                              | BC .. 1606 .. R |
|                                                                                     | M5130-040-TC16-03-15 | 40                   | M16                  | 40                   |                      | 15                   | 3 | 0,21 | 3                              |                 |
|                                                                                     | M5130-040-TC16-04-15 | 40                   | M16                  | 40                   |                      | 15                   | 4 | 0,2  | 4                              |                 |
|  | M5130-025-W25-02-15  | 25                   | 25                   | 43                   | 100                  | 15                   | 2 | 0,3  | 2                              | BC .. 1606 .. R |
|                                                                                     | M5130-032-W32-03-15  | 32                   | 32                   | 49                   | 110                  | 15                   | 3 | 0,56 | 3                              |                 |
|  | M5130-025-A25-02-15  | 25                   | 25                   | 38                   | 200                  | 15                   | 2 | 0,68 | 2                              | BC .. 1606 .. R |
|                                                                                     | M5130-028-A25-02-15  | 28                   | 25                   | 38                   | 200                  | 15                   | 2 | 0,7  | 2                              |                 |
|                                                                                     | M5130-032-A32-03-15  | 32                   | 32                   | 39                   | 250                  | 15                   | 3 | 1,43 | 3                              |                 |
|                                                                                     | M5130-035-A32-03-15  | 35                   | 32                   | 39                   | 250                  | 15                   | 3 | 1,46 | 3                              |                 |

Bodies and assembly parts are included in the scope of delivery.

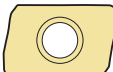
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 25–160                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2300 (T15IP)<br>3,5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 25–125         | 160                |
|-----------------------------------------------------------------------------------|------------------------------|----------------|--------------------|
|  | Torque screwdriver, analogue | FS2003         | FS2003             |
|  | Torque screwdriver, digital  | FS2248         | FS2248             |
|  | Interchangeable blade        | FS2014 (T15IP) | FS2014 (T15IP)     |
|  | Screwdriver                  | FS1485 (T15IP) | FS1485 (T15IP)     |
|  | Sealing disc set             |                | FS936 COMPLETE SET |

## Indexable inserts

|                                                                                     | Designation     | r<br>mm | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |       |        |        |        | N      |       | S     |      |        |        |        |
|-------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|--------|--------|
|                                                                                     |                 |         |         | HC     |        |        |        |        | HC     |        |        |        | HC    |       |        |        |        | HC     | HW    | HC    |      |        |        |        |
|                                                                                     |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WHH15 | WKK25S | WKP25S | WKP35G | WKP35S | WXM15 | WXN15 | WK10 | WSM35S | WSM45X | WSP45G |
|  | BCGT160508R-G55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     |       | ☺      |        |        |        | ☺     | ☺     |      | ☺      | ☺      | ☺      |
|                                                                                     | BCHT160508R-K85 | 0,8     | 2       |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160512R-K85 | 1,2     | 1,7     |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160516R-K85 | 1,6     | 1,7     |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160520R-K85 | 2       | 1,5     |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160525R-K85 | 2,5     | 1,4     |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160530R-K85 | 3       | 1,2     |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160540R-K85 | 4       | 1,1     |        |        |        |        |        |        |        |        |        |       |       |        |        |        |        | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCMT160508R-F55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |        | ☺     | ☺     | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160508R-G55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺     | ☺     | ☺      | ☺      |        |        |       | ☺     | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160508R-K55 | 0,8     | 2       |        | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |       |       | ☺      | ☺      |        |        |       | ☺     | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160512R-G55 | 1,2     | 1,7     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160516R-G55 | 1,6     | 1,5     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160520R-G55 | 2       | 1,5     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160525R-G55 | 2,5     | 1,4     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160530R-G55 | 3       | 1,2     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160532R-G55 | 3,2     | 1,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        |        | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160540R-G55 | 4       | 1,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160550R-G55 | 5       | 0,7     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160560R-G55 | 6       | 0,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|  | BCGX1605PDR-G55 | 0,8     | 8       |        |        |        |        |        |        |        |        |        | ☺     | ☺     |        |        |        | ☺      |       |       |      |        |        |        |

If the corner radius  $r$  is greater than 2.5 mm, the corner area of the body must be reworked.

$R(\text{body}) = r(\text{indexable insert}) - 1 \text{ mm}$

BCGX1605PDR-F56-G55 wiper insert only in combination with BCGT160508-G55.

HC = Coated carbide

HW = Uncoated carbide

# Shoulder milling cutters

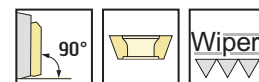
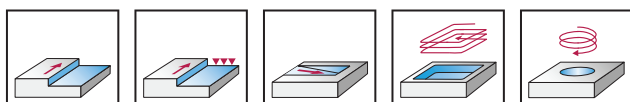
M5130 mm

BC .. 1606 .. R

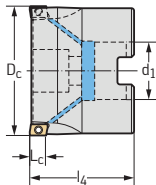
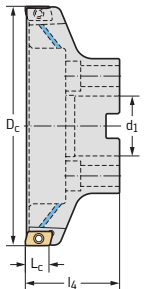
Xtra-tec® XT



– 2 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |

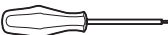
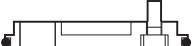
| Tool                                                                                                                              | Designation         | D <sub>c</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z  | kg   | No. of<br>indexable<br>inserts | Type            |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----|------|--------------------------------|-----------------|
| Parallel bore DIN 138<br>transverse keyway<br>   | M5130-040-B16-03-15 | 40                   | 16                   | 40                   |                      | 15                   | 3  | 0,15 | 3                              | BC .. 1606 .. R |
|                                                                                                                                   | M5130-040-B16-04-15 | 40                   | 16                   | 40                   |                      | 15                   | 4  | 0,14 | 4                              |                 |
|                                                                                                                                   | M5130-042-B16-03-15 | 42                   | 16                   | 40                   |                      | 15                   | 3  | 0,17 | 3                              |                 |
|                                                                                                                                   | M5130-050-B22-03-15 | 50                   | 22                   | 40                   |                      | 15                   | 3  | 0,31 | 3                              |                 |
|                                                                                                                                   | M5130-050-B22-06-15 | 50                   | 22                   | 40                   |                      | 15                   | 6  | 0,31 | 6                              |                 |
|                                                                                                                                   | M5130-054-B22-03-15 | 54                   | 22                   | 40                   |                      | 15                   | 3  | 0,34 | 3                              |                 |
|                                                                                                                                   | M5130-063-B22-04-15 | 63                   | 22                   | 40                   |                      | 15                   | 4  | 0,43 | 4                              |                 |
|                                                                                                                                   | M5130-063-B22-07-15 | 63                   | 22                   | 40                   |                      | 15                   | 7  | 0,45 | 7                              |                 |
|                                                                                                                                   | M5130-063-B27-04-15 | 63                   | 27                   | 50                   |                      | 15                   | 4  | 0,66 | 4                              |                 |
|                                                                                                                                   | M5130-063-B27-07-15 | 63                   | 27                   | 50                   |                      | 15                   | 7  | 0,68 | 7                              |                 |
|                                                                                                                                   | M5130-066-B27-04-15 | 66                   | 27                   | 50                   |                      | 15                   | 4  | 0,72 | 4                              |                 |
|                                                                                                                                   | M5130-080-B27-05-15 | 80                   | 27                   | 50                   |                      | 15                   | 5  | 0,92 | 5                              |                 |
|                                                                                                                                   | M5130-080-B27-08-15 | 80                   | 27                   | 50                   |                      | 15                   | 8  | 0,97 | 8                              |                 |
|                                                                                                                                   | M5130-085-B27-05-15 | 85                   | 27                   | 50                   |                      | 15                   | 5  | 1,03 | 5                              |                 |
|                                                                                                                                   | M5130-100-B32-05-15 | 100                  | 32                   | 50                   |                      | 15                   | 5  | 1,55 | 5                              |                 |
|                                                                                                                                   | M5130-100-B32-08-15 | 100                  | 32                   | 50                   |                      | 15                   | 8  | 1,62 | 8                              |                 |
|                                                                                                                                   | M5130-125-B40-07-15 | 125                  | 40                   | 63                   |                      | 15                   | 7  | 2,47 | 7                              |                 |
|                                                                                                                                   | M5130-125-B40-10-15 | 125                  | 40                   | 63                   |                      | 15                   | 10 | 2,67 | 10                             |                 |
| Parallel bore DIN 138<br>transverse keyway<br> | M5130-160-B40-08-15 | 160                  | 40                   | 63                   |                      | 15                   | 8  | 2,88 | 8                              | BC .. 1606 .. R |
|                                                                                                                                   | M5130-160-B40-12-15 | 160                  | 40                   | 63                   |                      | 15                   | 12 | 3,02 | 12                             |                 |

Bodies and assembly parts are included in the scope of delivery.

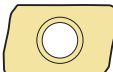
## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 25–160                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2300 (T15IP)<br>3,5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 25–125         | 160                |
|-----------------------------------------------------------------------------------|------------------------------|----------------|--------------------|
|  | Torque screwdriver, analogue | FS2003         | FS2003             |
|  | Torque screwdriver, digital  | FS2248         | FS2248             |
|  | Interchangeable blade        | FS2014 (T15IP) | FS2014 (T15IP)     |
|  | Screwdriver                  | FS1485 (T15IP) | FS1485 (T15IP)     |
|  | Sealing disc set             |                | FS936 COMPLETE SET |

## Indexable inserts

|                                                                                     | Designation     | r<br>mm | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |       |        |        |        | N      |       | S     |      |        |        |        |
|-------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|--------|--------|
|                                                                                     |                 |         |         | HC     |        |        |        |        | HC     |        |        |        | HC    |       |        |        |        | HC     | HW    | HC    |      |        |        |        |
|                                                                                     |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WHH15 | WKK25S | WKP25S | WKP35G | WKP35S | WXM15 | WXN15 | WK10 | WSM35S | WSM45X | WSP45G |
|  | BCGT160508R-G55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        | ☺      | ☺     | ☺     | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCHT160508R-K85 | 0,8     | 2       |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160512R-K85 | 1,2     | 1,7     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160516R-K85 | 1,6     | 1,7     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160520R-K85 | 2       | 1,5     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160525R-K85 | 2,5     | 1,4     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160530R-K85 | 3       | 1,2     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160540R-K85 | 4       | 1,1     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCMT160508R-F55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      |        | ☺     | ☺     | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160508R-G55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺     |       | ☺      | ☺      | ☺      |        |       |       | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160508R-K55 | 0,8     | 2       |        | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |       |       | ☺      | ☺      |        |        |       |       | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160512R-G55 | 1,2     | 1,7     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160516R-G55 | 1,6     | 1,5     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160520R-G55 | 2       | 1,5     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      | ☺      |
|  | BCMT160525R-G55 | 2,5     | 1,4     |        | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |       | ☺     | ☺      | ☺      |        |        |       |       | ☺    | ☺      | ☺      |        |
|                                                                                     | BCMT160530R-G55 | 3       | 1,2     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      |        |       |       | ☺      | ☺      |        |        |       |       | ☺    | ☺      | ☺      |        |
|                                                                                     | BCMT160532R-G55 | 3,2     | 1,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      |        |
|                                                                                     | BCMT160540R-G55 | 4       | 1,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      |        |       |       | ☺      | ☺      |        |        |       |       | ☺    | ☺      | ☺      |        |
|                                                                                     | BCMT160550R-G55 | 5       | 0,7     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      |        |
|                                                                                     | BCMT160560R-G55 | 6       | 0,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      |        |       |       | ☺      | ☺      |        |        |       |       |      | ☺      | ☺      |        |
|                                                                                     | BCGX1605PDR-G55 | 0,8     | 8       |        |        |        |        |        |        |        |        | ☺      | ☺     |       |        |        | ☺      |        |       |       |      |        |        |        |

If the corner radius  $r$  is greater than 2.5 mm, the corner area of the body must be reworked.

$R(\text{body}) = r(\text{indexable insert}) - 1 \text{ mm}$

BCGX1605PDR-F56-G55 wiper insert only in combination with BCGT160508-G55.

HC = Coated carbide

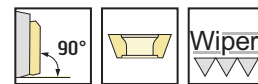
HW = Uncoated carbide

# Shoulder milling cutters

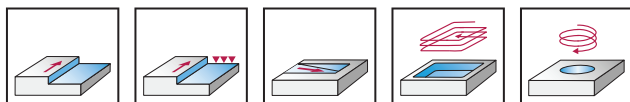
M5130 inch

BC .. 1606 .. R

Xtra-tec® XT



– 2 cutting edges per indexable insert



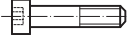
|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5130 | ● | ● | ● | ● | ● | ● | ● |
| M5130 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                   | Designation         | D <sub>c</sub><br>inch | d <sub>1</sub><br>inch | l <sub>4</sub><br>inch | l <sub>1</sub><br>inch | L <sub>c</sub><br>inch | Z  | lbs   | No. of<br>indexable<br>inserts | Type            |
|--------------------------------------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----|-------|--------------------------------|-----------------|
| <b>ScrewFit</b><br>                                    | M5130.038-T36-03-15 | 1,500                  | T36                    | 1,500                  |                        | 0,591                  | 3  | 0,012 | 3                              | BC .. 1606 .. R |
|                                                        | M5130.038-T36-04-15 | 1,500                  | T36                    | 1,500                  |                        | 0,591                  | 4  | 0,012 | 4                              |                 |
|                                                        | M5130.051-T45-06-15 | 2,000                  | T45                    | 1,575                  |                        | 0,591                  | 6  | 0,018 | 6                              |                 |
| <b>DIN 1835 B</b><br>                                  | M5130.026-W26-02-15 | 1,000                  | 1,000                  | 1,850                  | 4,131                  | 0,591                  | 2  | 0,013 | 3                              | BC .. 1606 .. R |
|                                                        | M5130.031-W31-03-15 | 1,250                  | 1,250                  | 1,500                  | 3,781                  | 0,591                  | 3  | 0,018 | 3                              |                 |
|                                                        | M5130.038-W31-04-15 | 1,500                  | 1,250                  | 1,730                  | 4,008                  | 0,591                  | 4  | 0,023 | 3                              |                 |
| <b>Cylindrical shank</b><br>                           | M5130.026-A26-02-15 | 1,000                  | 1,000                  | 1,850                  | 8,350                  | 0,591                  | 2  | 0,029 | 2                              | BC .. 1606 .. R |
|                                                        | M5130.031-A31-03-15 | 1,250                  | 1,250                  | 1,500                  | 9,87                   | 0,591                  | 3  | 0,056 | 3                              |                 |
| <b>Parallel bore DIN 138<br/>transverse keyway</b><br> | M5130.051-B19-03-15 | 2,000                  | 0,750                  | 1,575                  |                        | 0,591                  | 3  | 0,013 | 3                              | BC .. 1606 .. R |
|                                                        | M5130.051-B19-06-15 | 2,000                  | 0,750                  | 1,575                  |                        | 0,591                  | 6  | 0,012 | 6                              |                 |
|                                                        | M5130.064-B26-04-15 | 2,500                  | 1,000                  | 1,575                  |                        | 0,591                  | 4  | 0,020 | 4                              |                 |
|                                                        | M5130.064-B26-07-15 | 2,500                  | 1,000                  | 1,575                  |                        | 0,591                  | 7  | 0,02  | 7                              |                 |
|                                                        | M5130.076-B26-05-15 | 3,000                  | 1,000                  | 2,000                  |                        | 0,591                  | 5  | 0,045 | 5                              |                 |
|                                                        | M5130.076-B26-08-15 | 3,000                  | 1,000                  | 2,000                  |                        | 0,591                  | 8  | 0,041 | 8                              |                 |
|                                                        | M5130.102-B38-05-15 | 4,000                  | 1,500                  | 2,500                  |                        | 0,591                  | 5  | 0,094 | 5                              |                 |
|                                                        | M5130.102-B38-08-15 | 4,000                  | 1,500                  | 2,500                  |                        | 0,591                  | 8  | 0,108 | 8                              |                 |
|                                                        | M5130.127-B38-07-15 | 5,000                  | 1,500                  | 2,500                  |                        | 0,591                  | 7  | 0,135 | 7                              |                 |
|                                                        | M5130.127-B38-10-15 | 5,000                  | 1,500                  | 2,500                  |                        | 0,591                  | 10 | 0,146 | 10                             |                 |
|                                                        | M5130.152-B38-08-15 | 6,000                  | 1,500                  | 2,500                  |                        | 0,591                  | 8  | 0,186 | 8                              |                 |
|                                                        | M5130.152-B38-12-15 | 6,000                  | 1,500                  | 2,500                  |                        | 0,591                  | 12 | 0,183 | 12                             |                 |

Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 1–6                      | 2                        | 2,5–3                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|--------------------------|--------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2300 (T15IP)<br>3,5 Nm | FS2300 (T15IP)<br>3,5 Nm | FS2300 (T15IP)<br>3,5 Nm |
|  | Clamping screw for<br>arbour-mounted tools               |                          | FS1523                   | FS1519                   |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 1–6            |
|-----------------------------------------------------------------------------------|------------------------------|----------------|
|  | Torque screwdriver, analogue | FS2004         |
|  | Torque screwdriver, digital  | FS2248         |
|  | Interchangeable blade        | FS2014 (T15IP) |
|  | Screwdriver                  | FS1485 (T15IP) |

## Indexable inserts

|                                                                                     | Designation     | r<br>mm | b<br>mm | P      |        |        |        |        | M      |        |        |        | K     |       |        |        |        | N      |       | S     |      |        |        |        |
|-------------------------------------------------------------------------------------|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|-------|-------|------|--------|--------|--------|
|                                                                                     |                 |         |         | HC     |        |        |        |        | HC     |        |        |        | HC    |       |        |        |        | HC     | HW    | HC    |      |        |        |        |
|                                                                                     |                 |         |         | WKP25S | WKP35G | WKP35S | WSP45G | WSP45S | WSM35S | WSM45X | WSP45G | WSP45S | WAK15 | WHH15 | WKK25S | WKP25S | WKP35G | WKP35S | WXM15 | WXN15 | WK10 | WSM35S | WSM45X | WSP45G |
|   | BCGT160508R-G55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      | ☺      |        | ☺      | ☺     | ☺     |      | ☺      | ☺      | ☺      |
|                                                                                     | BCHT160508R-K85 | 0,8     | 2       |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCHT160512R-K85 | 1,2     | 1,7     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160516R-K85 | 1,6     | 1,7     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160520R-K85 | 2       | 1,5     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160525R-K85 | 2,5     | 1,4     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160530R-K85 | 3       | 1,2     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     | ☺     |      |        |        |        |
|                                                                                     | BCHT160540R-K85 | 4       | 1,1     |        |        |        |        |        |        |        |        |        |       |       |        |        |        | ☺      | ☺     |       |      |        |        |        |
|                                                                                     | BCMT160508R-F55 | 0,8     | 2       | ☺      | ☺      |        | ☺      | ☺      |        | ☺      | ☺      | ☺      | ☺     | ☺     |        |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160508R-G55 | 0,8     | 2       | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺     | ☺     |        |        |        |        |       | ☺     | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160508R-K55 | 0,8     | 2       |        | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      | ☺      |        |       |       | ☺      | ☺      |        |        |       | ☺     | ☺    | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160512R-G55 | 1,2     | 1,7     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160516R-G55 | 1,6     | 1,5     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160520R-G55 | 2       | 1,5     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160525R-G55 | 2,5     | 1,4     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160530R-G55 | 3       | 1,2     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160532R-G55 | 3,2     | 1,1     |        | ☺      | ☺      |        | ☺      | ☺      |        |        |        |       | ☺     | ☺      |        |        |        |       |       |      |        | ☺      | ☺      |
|                                                                                     | BCMT160540R-G55 | 4       | 1,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|                                                                                     | BCMT160550R-G55 | 5       | 0,7     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        |        |        |       | ☺     | ☺      |        |        |        |       |       |      |        | ☺      | ☺      |
|                                                                                     | BCMT160560R-G55 | 6       | 0,1     |        | ☺      | ☺      | ☺      | ☺      | ☺      |        | ☺      | ☺      | ☺     | ☺     | ☺      |        |        |        |       |       |      | ☺      | ☺      | ☺      |
|  | BCGX1605PDR-G55 | 0,8     | 8       |        |        |        |        |        |        |        |        |        | ☺     | ☺     |        |        | ☺      |        |       |       |      |        |        |        |

If the corner radius r is greater than 2.5 mm, the corner area of the body must be reworked.

R (body) = r (indexable insert) – 1 mm

BCGX1605PDR-F56-G55 wiper insert only in combination with BCGT160508-G55.

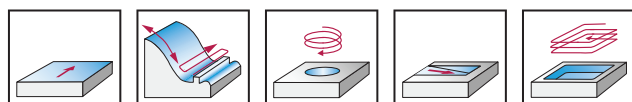
HC = Coated carbide  
HW = Uncoated carbide

# Round insert milling cutters

M5468 

RD . X0501M0

Xtra-tec® XT



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5468 | ● | ● | ● | ● | ● | ● | ● |

| Tool                     | Designation              | R<br>mm | D <sub>a</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>index-<br>able<br>inserts | Type         |
|--------------------------|--------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|-------------------------------------|--------------|
| ScrewFit<br>             | ★ M5468-010-T09-02-02.5  | 2,5     | 10                   | T09                  | 20                   |                      | 2,5                  | 2 | 0,01 | 2                                   | RD . X0501M0 |
|                          | ★ M5468-012-T09-03-02.5  | 2,5     | 12                   | T09                  | 20                   |                      | 2,5                  | 3 | 0,01 | 3                                   |              |
|                          | ★ M5468-016-T14-04-02.5  | 2,5     | 16                   | T14                  | 25                   |                      | 2,5                  | 4 | 0,03 | 4                                   |              |
|                          | ★ M5468-020-T18-05-02.5  | 2,5     | 20                   | T18                  | 30                   |                      | 2,5                  | 5 | 0,06 | 5                                   |              |
| Cylindrical, modular<br> | ★ M5468-010-TC06-02-02.5 | 2,5     | 10                   | M6                   | 20                   |                      | 2,5                  | 2 | 0,01 | 2                                   | RD . X0501M0 |
|                          | ★ M5468-012-TC06-03-02.5 | 2,5     | 12                   | M6                   | 20                   |                      | 2,5                  | 3 | 0,01 | 3                                   |              |
|                          | ★ M5468-016-TC08-04-02.5 | 2,5     | 16                   | M8                   | 25                   |                      | 2,5                  | 4 | 0,03 | 4                                   |              |
|                          | ★ M5468-020-TC10-05-02.5 | 2,5     | 20                   | M10                  | 30                   |                      | 2,5                  | 5 | 0,06 | 5                                   |              |
| DIN 1835 B<br>           | ★ M5468-010-W10-02-02.5  | 2,5     | 10                   | 10                   | 19                   | 60                   | 2,5                  | 2 | 0,03 | 2                                   | RD . X0501M0 |
|                          | ★ M5468-012-W12-03-02.5  | 2,5     | 12                   | 12                   | 19                   | 65                   | 2,5                  | 3 | 0,05 | 3                                   |              |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>a</sub> [mm]                                      | 10–20                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1358 (T6)<br>0,4 Nm |

## Accessories

|                                                                                   | D <sub>a</sub> [mm]          | 10–20       |
|-----------------------------------------------------------------------------------|------------------------------|-------------|
|  | Torque screwdriver, analogue | FS2001      |
|  | Interchangeable blade        | FS2005 (T6) |
|  | Screwdriver                  | FS1063 (T6) |

## Indexable inserts

|                                                                                   | Designation    | d<br>mm | P      |        | M      |        | K      |        |       |        |        | N      | S      | H      |      |        |        |        |
|-----------------------------------------------------------------------------------|----------------|---------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|------|--------|--------|--------|
|                                                                                   |                |         | HC     |        |        |        | HC     |        | HC    |        |        |        |        | HW     | HC   | HC     |        |        |
|                                                                                   |                |         | WKP25S | WKP35G | WKP35S | WSP45G | WSM35S | WSP45G | WHH15 | WHH15X | WKK25S | WKP25S | WKP35G | WKP35S | WK10 | WSM35S | WSP45G | WHH15X |
|                                                                                   |                |         |        |        |        |        |        |        |       |        |        |        |        |        |      |        |        |        |
|  | RDGX0501M0-G88 | 5       |        |        |        |        |        |        |       |        |        |        |        |        |      |        |        |        |
|                                                                                   | RDHX0501M0-A57 | 5       |        |        |        |        |        |        |       |        |        |        |        |        |      |        |        |        |
|                                                                                   | RDMX0501M0-D57 | 5       |        |        |        |        |        |        |       |        |        |        |        |        |      |        |        |        |

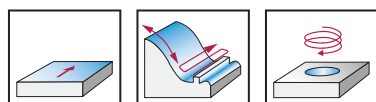
HW = Uncoated carbide  
HC = Coated carbide

# Round insert milling cutters

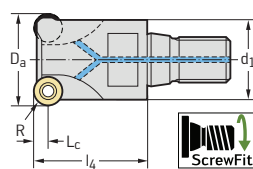
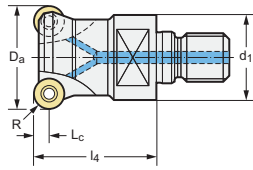
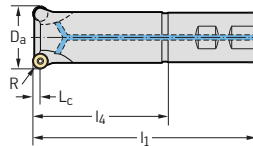
M5468 mm

RD . X07T1M0

Xtra-tec® XT



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5468 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                                                                        | Designation              | R<br>mm | D <sub>a</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>index-<br>able<br>inserts | Type         |
|-------------------------------------------------------------------------------------------------------------|--------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|-------------------------------------|--------------|
| ScrewFit<br>               | ★ M5468-015-T14-03-03.5  | 3,5     | 15                   | T14                  | 25                   |                      | 3,5                  | 3 | 0,03 | 3                                   | RD . X07T1M0 |
|                                                                                                             | ★ M5468-020-T18-04-03.5  | 3,5     | 20                   | T18                  | 30                   |                      | 3,5                  | 4 | 0,05 | 4                                   |              |
|                                                                                                             | ★ M5468-025-T22-05-03.5  | 3,5     | 25                   | T22                  | 35                   |                      | 3,5                  | 5 | 0,1  | 5                                   |              |
|                                                                                                             | ★ M5468-030-T28-06-03.5  | 3,5     | 30                   | T28                  | 40                   |                      | 3,5                  | 6 | 0,18 | 6                                   |              |
| Cylindrical, modular<br> | ★ M5468-015-TC08-03-03.5 | 3,5     | 15                   | M8                   | 25                   |                      | 3,5                  | 3 | 0,03 | 3                                   | RD . X07T1M0 |
|                                                                                                             | ★ M5468-020-TC10-04-03.5 | 3,5     | 20                   | M10                  | 30                   |                      | 3,5                  | 4 | 0,05 | 4                                   |              |
|                                                                                                             | ★ M5468-025-TC12-05-03.5 | 3,5     | 25                   | M12                  | 35                   |                      | 3,5                  | 5 | 0,09 | 5                                   |              |
|                                                                                                             | ★ M5468-030-TC16-06-03.5 | 3,5     | 30                   | M16                  | 40                   |                      | 3,5                  | 6 | 0,17 | 6                                   |              |
| DIN 1835 B<br>           | ★ M5468-015-W16-03-03.5  | 3,5     | 15                   | 16                   | 51                   | 100                  | 3,5                  | 3 | 0,12 | 3                                   | RD . X07T1M0 |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>a</sub> [mm]                                      | 15–30                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1455 (T8IP)<br>1,2 Nm |

## Accessories

|                                                                                   | D <sub>a</sub> [mm]          | 15–30         |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2001        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2012 (T8IP) |
|  | Screwdriver                  | FS1483 (T8IP) |

## Indexable inserts

|  | Designation    | d<br>mm | P                                                                                 |                                                                                   |                                                                                   |                                                                                   | M                                                                                 |                                                                                   | K                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | N      | S                                                                                 | H                                                                                 |        |        |
|-----------------------------------------------------------------------------------|----------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|--------|
|                                                                                   |                |         | HC                                                                                |                                                                                   |                                                                                   |                                                                                   | HC                                                                                |                                                                                   | HC                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   | HW     | HC                                                                                | HC                                                                                |        |        |
|                                                                                   |                |         | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WSP45G                                                                            | WSM35S                                                                            | WSP45G                                                                            | WHH15                                                                             | WHH15X                                                                            | WKK25S                                                                            | WKP25S                                                                            | WKP35G                                                                            | WKP35S | WK10                                                                              | WSM35S                                                                            | WSP45G | WHH15X |
|                                                                                   |                |         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |        |                                                                                   |                                                                                   |        |        |
|                                                                                   | RDGX07T1M0-G88 | 7       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |        |                                                                                   |                                                                                   |        |        |
|                                                                                   | RDHX07T1M0-A57 | 7       |  |  |  |                                                                                   |                                                                                   |  |  |  |  |  |                                                                                   |        |                                                                                   |  |        |        |
|                                                                                   | RDMX07T1M0-D57 | 7       |  |  |  |  |  |                                                                                   |                                                                                   |  |  |  |  |        |  |  |        |        |

HW = Uncoated carbide  
HC = Coated carbide

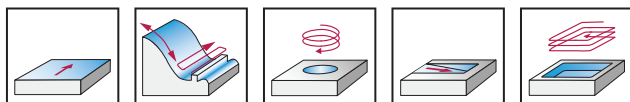
# Round insert milling cutters

M5468

Xtra-tec® XT



- With indexing surfaces
- 4 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5468 | ● | ● | ● | ● | ● | ● | ● |

| Tool                            | Designation            | R<br>mm | D <sub>a</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>index-<br>able<br>inserts | Type         |
|---------------------------------|------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|-------------------------------------|--------------|
| <b>ScrewFit</b><br>             | ★ M5468-016-T14-02-04  | 4       | 16                   | T14                  | 25                   |                      | 4                    | 2 | 0,03 | 2                                   | RO . X0803M0 |
|                                 | ★ M5468-025-T22-03-04  | 4       | 25                   | T22                  | 35                   |                      | 4                    | 3 | 0,09 | 3                                   |              |
|                                 | ★ M5468-032-T28-05-04  | 4       | 32                   | T28                  | 40                   |                      | 4                    | 5 | 0,18 | 5                                   |              |
|                                 |                        |         |                      |                      |                      |                      |                      |   |      |                                     |              |
| <b>Cylindrical, modular</b><br> | ★ M5468-016-TC08-02-04 | 4       | 16                   | M8                   | 25                   |                      | 4                    | 2 | 0,03 | 2                                   | RO . X0803M0 |
|                                 | ★ M5468-025-TC12-03-04 | 4       | 25                   | M12                  | 35                   |                      | 4                    | 3 | 0,09 | 3                                   |              |
|                                 | ★ M5468-032-TC16-05-04 | 4       | 32                   | M16                  | 40                   |                      | 4                    | 5 | 0,17 | 5                                   |              |
|                                 |                        |         |                      |                      |                      |                      |                      |   |      |                                     |              |
| <b>DIN 1835 B</b><br>           | ★ M5468-016-W16-02-04  | 4       | 16                   | 16                   | 51                   | 100                  | 4                    | 2 | 0,13 | 2                                   | RO . X0803M0 |
|                                 | ★ M5468-025-W25-03-04  | 4       | 25                   | 25                   | 93                   | 150                  | 4                    | 3 | 0,45 | 3                                   |              |
|                                 |                        |         |                      |                      |                      |                      |                      |   |      |                                     |              |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>a</sub> [mm]                                      | 16                    | 25–32                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|-------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1456 (T9IP)<br>2 Nm | FS2078 (T9IP)<br>1,5 Nm |

## Accessories

|                                                                                   | D <sub>a</sub> [mm]          | 16–32         |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | Torque screwdriver, analogue | FS2003        |
|  | Torque screwdriver, digital  | FS2248        |
|  | Interchangeable blade        | FS2013 (T9IP) |
|  | Screwdriver                  | FS1484 (T9IP) |

## Indexable inserts

|  | Designation     | d<br>mm | P                                                                                   |                                                                                   |                                                                                     |                                                                                     | M                                                                                   |                                                                                     | K                                                                                 |                                                                                     |                                                                                     |                                                                                     | N                                                                                   |       | S                                                                                   |                                                                                     | H                                                                                   |
|------------------------------------------------------------------------------------|-----------------|---------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                    |                 |         | HC                                                                                  |                                                                                   |                                                                                     |                                                                                     | HC                                                                                  |                                                                                     | HC                                                                                |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  | HW    | HC                                                                                  | HC                                                                                  |                                                                                     |
|                                                                                    |                 |         | WKP25S                                                                              | WKP35G                                                                            | WKP35S                                                                              | WSP45G                                                                              | WSM35S                                                                              | WSP45G                                                                              | WHH15X                                                                            | WKK25S                                                                              | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WXN15 | WK10                                                                                | WSM35S                                                                              | WSP45G                                                                              |
|                                                                                    | ROGX0803M04-G88 | 8       |                                                                                     |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |                                                                                     |                                                                                     |                                                                                     |
|                                                                                    | ROHX0803M04-A57 | 8       |    |  |    |                                                                                     |                                                                                     |                                                                                     |  |    |    |    |    |       |                                                                                     |                                                                                     |    |
|                                                                                    | ROHX0803M04-D57 | 8       |                                                                                     |                                                                                   |    |    |    |    |                                                                                   |                                                                                     |                                                                                     |  |                                                                                     |       |                                                                                     |  |  |
|                                                                                    | ROHX0803M04-D67 | 8       |                                                                                     |                                                                                   |  |  |  |  |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |       |  |  |                                                                                     |
|                                                                                    | ROMX0803M04-D57 | 8       |  |                                                                                   |  |  |  |  |                                                                                   |  |  |  |  |       |                                                                                     |  |  |

HW = Uncoated carbide  
HC = Coated carbide

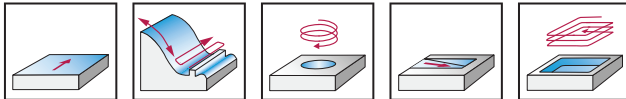
# Round insert milling cutters

M5468

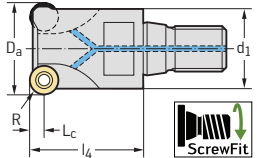
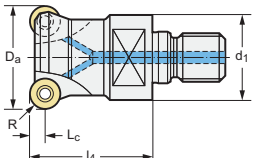
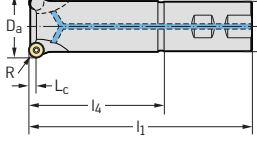
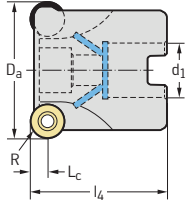
mm



- With indexing surfaces
- 8 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5468 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                                                                                              | Designation            | R<br>mm | D <sub>a</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>index-<br>able<br>inserts | Type         |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|-------------------------------------|--------------|
| ScrewFit<br>                                     | ★ M5468-032-T28-02-08  | 8       | 32                   | T28                  | 40                   |                      | 8                    | 2 | 0,14 | 2                                   | RO . X1605M0 |
| Cylindrical, modular<br>                       | ★ M5468-032-TC16-02-08 | 8       | 32                   | M16                  | 40                   |                      | 8                    | 2 | 0,14 | 2                                   | RO . X1605M0 |
| DIN 1835 B<br>                                 | ★ M5468-032-W32-02-08  | 8       | 32                   | 32                   | 99                   | 160                  | 8                    | 2 | 0,74 | 2                                   | RO . X1605M0 |
| Parallel bore DIN 138<br>transverse keyway<br> | ★ M5468-052-B22-04-08  | 8       | 52                   | 22                   | 50                   |                      | 8                    | 4 | 0,32 | 4                                   | RO . X1605M0 |
|                                                                                                                                   | ★ M5468-052-B22-05-08  | 8       | 52                   | 22                   | 50                   |                      | 8                    | 5 | 0,31 | 5                                   |              |
|                                                                                                                                   | ★ M5468-063-B22-05-08  | 8       | 63                   | 22                   | 50                   |                      | 8                    | 5 | 0,49 | 5                                   |              |
|                                                                                                                                   | ★ M5468-063-B22-06-08  | 8       | 63                   | 22                   | 50                   |                      | 8                    | 6 | 0,49 | 6                                   |              |
|                                                                                                                                   | ★ M5468-066-B27-05-08  | 8       | 66                   | 27                   | 50                   |                      | 8                    | 5 | 0,57 | 5                                   |              |
|                                                                                                                                   | ★ M5468-066-B27-06-08  | 8       | 66                   | 27                   | 50                   |                      | 8                    | 6 | 0,58 | 6                                   |              |
|                                                                                                                                   | ★ M5468-080-B27-06-08  | 8       | 80                   | 27                   | 50                   |                      | 8                    | 6 | 0,82 | 6                                   |              |
|                                                                                                                                   | ★ M5468-080-B27-07-08  | 8       | 80                   | 27                   | 50                   |                      | 8                    | 7 | 0,82 | 7                                   |              |
|                                                                                                                                   | ★ M5468-100-B32-07-08  | 8       | 100                  | 32                   | 50                   |                      | 8                    | 7 | 1,43 | 7                                   |              |
|                                                                                                                                   | ★ M5468-125-B40-08-08  | 8       | 125                  | 40                   | 63                   |                      | 8                    | 8 | 2,79 | 8                                   |              |



## Assembly parts

|                                                                                   | D <sub>a</sub> [mm]                                      | 52–125                 | 32                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1495 (T20IP)<br>5 Nm | FS2281 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>a</sub> [mm]          | 32–125         |
|-----------------------------------------------------------------------------------|------------------------------|----------------|
|  | Torque screwdriver, analogue | FS2003         |
|  | Torque screwdriver, digital  | FS2248         |
|  | Interchangeable blade        | FS2015 (T20IP) |
|  | Screwdriver                  | FS1486 (T20IP) |

## Indexable inserts

|  | Designation      | d<br>mm | P                                                                                   |                                                                                     |                                                                                     |                                                                                    | M                                                                                  |                                                                                    |                                                                                    | K                                                                                 |                                                                                     |                                                                                     |                                                                                     | N                                                                                   |                                                                                   | S    |                                                                                    |                                                                                    | H      |                                                                                   |
|------------------------------------------------------------------------------------|------------------|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
|                                                                                    |                  |         | HC                                                                                  |                                                                                     |                                                                                     |                                                                                    | HC                                                                                 |                                                                                    |                                                                                    | HC                                                                                |                                                                                     |                                                                                     |                                                                                     | HC                                                                                  | HW                                                                                | HC   |                                                                                    |                                                                                    | HC     |                                                                                   |
|                                                                                    |                  |         | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WSP45G                                                                             | WSM35S                                                                             | WSM45X                                                                             | WSP45G                                                                             | WHH15X                                                                            | WKK25S                                                                              | WKP25S                                                                              | WKP35G                                                                              | WKP35S                                                                              | WXN15                                                                             | WK10 | WSM35S                                                                             | WSM45X                                                                             | WSP45G | WHH15X                                                                            |
|                                                                                    | ROGX1605M08-G88  | 16      |                                                                                     |                                                                                     |                                                                                     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                   |      |                                                                                    |                                                                                    |        |                                                                                   |
|                                                                                    | ROHX1605M08-A57  | 16      |    |    |    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  |    |    |    |    |  |      |                                                                                    |                                                                                    |        |  |
|                                                                                    | ROMX1605M08-D57  | 16      |   |   |   |  |  |  |  |                                                                                   |   |   |   |   |                                                                                   |      |  |  |        |                                                                                   |
|                                                                                    | ROMX1605M08-F67  | 16      |                                                                                     |                                                                                     |                                                                                     |  |  |  |  |                                                                                   |   |   |   |   |                                                                                   |      |  |  |        |                                                                                   |
|                                                                                    | ROMX1605M0T8-A27 | 16      |  |  |  |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                   |  |  |  |  |                                                                                   |      |                                                                                    |                                                                                    |        |                                                                                   |

HW = Uncoated carbide  
HC = Coated carbide

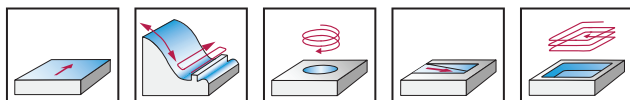
# Round insert milling cutters

M5468 inch

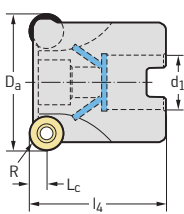
RO . X1605M0

Xtra-tec® XT

- With indexing surfaces
- 8 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5468 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                                                                                                | Designation           | R<br>inch | D <sub>a</sub><br>inch | d <sub>1</sub><br>inch | l <sub>4</sub><br>inch | L <sub>c</sub><br>inch | Z |  lbs | No. of<br>indexable<br>inserts | Type         |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------|------------------------|------------------------|------------------------|------------------------|---|-----------------------------------------------------------------------------------------|--------------------------------|--------------|
| Parallel bore DIN 138<br>transverse keyway<br><br> | ★ M5468.064-B26-06-08 | 0,315     | 2,500                  | 1,000                  | 2,000                  | 0,315                  | 6 | 0,018                                                                                   | 6                              | RO . X1605M0 |
|                                                                                                                                     | ★ M5468.076-B26-07-08 | 0,315     | 3,000                  | 1,000                  | 2,000                  | 0,315                  | 7 | 0,029                                                                                   | 7                              |              |
|                                                                                                                                     | ★ M5468.102-B38-07-08 | 0,315     | 4,000                  | 1,500                  | 2,500                  | 0,315                  | 7 | 0,072                                                                                   | 7                              |              |
|                                                                                                                                     | ★ M5468.127-B38-08-08 | 0,315     | 5,000                  | 1,500                  | 2,500                  | 0,315                  | 8 | 0,104                                                                                   | 8                              |              |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>a</sub> [mm]                                      | 2,5–5                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1495 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>a</sub> [mm]          | 2,5–5          |
|-----------------------------------------------------------------------------------|------------------------------|----------------|
|  | Torque screwdriver, analogue | FS2004         |
|  | Torque screwdriver, digital  | FS2248         |
|  | Interchangeable blade        | FS2015 (T20IP) |
|  | Screwdriver                  | FS1486 (T20IP) |

## Indexable inserts

|  | Designation      | d<br>mm | P                                                                                 |                                                                                   |                                                                                   |                                                                                   | M                                                                                 |                                                                                   |                                                                                   | K                                                                                 |                                                                                   |                                                                                   |                                                                                   | N                                                                                 |                                                                                   | S                                                                                 |                                                                                   |                                                                                   | H                                                                                 |
|------------------------------------------------------------------------------------|------------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                    |                  |         | HC                                                                                |                                                                                   |                                                                                   |                                                                                   | HC                                                                                |                                                                                   |                                                                                   | HC                                                                                |                                                                                   |                                                                                   |                                                                                   | HC                                                                                | HW                                                                                | HC                                                                                |                                                                                   |                                                                                   | HC                                                                                |
|                                                                                    |                  |         | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WSP45G                                                                            | WSM35S                                                                            | WSM45X                                                                            | WSP45G                                                                            | WHH15X                                                                            | WKK25S                                                                            | WKP25S                                                                            | WKP35G                                                                            | WKP35S                                                                            | WXN15                                                                             | WK10                                                                              | WSM35S                                                                            | WSM45X                                                                            | WSP45G                                                                            |
|                                                                                    | ROGX1605M08-G88  | 16      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                                                                                    | ROHX1605M08-A57  | 16      |  |  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |  |                                                                                   |                                                                                   |  |
|                                                                                    | ROMX1605M08-D57  | 16      |  |  |  |  |  |  |  |                                                                                   |  |  |  |  |                                                                                   |                                                                                   |  |  |  |
|                                                                                    | ROMX1605M08-F67  | 16      |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |                                                                                   |
|                                                                                    | ROMX1605M0T8-A27 | 16      |  |  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

HW = Uncoated carbide  
HC = Coated carbide

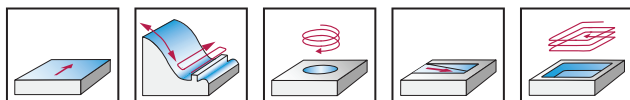
# Round insert milling cutters

M5468

Xtra-tec® XT



- With indexing surfaces
- 8 cutting edges per indexable insert



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5468 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                           | Designation            | R<br>mm | D <sub>a</sub><br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | L <sub>c</sub><br>mm | Z | kg   | No. of<br>index-<br>able<br>inserts | Type         |
|------------------------------------------------|------------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---|------|-------------------------------------|--------------|
| ScrewFit<br>                                   | ★ M5468-040-T36-02-10  | 10      | 40                   | T36                  | 40                   |                      | 10                   | 2 | 0,25 | 2                                   | RO . X2006M0 |
| Cylindrical, modular<br>                       | ★ M5468-040-TC16-02-10 | 10      | 40                   | M16                  | 40                   |                      | 10                   | 2 | 0,15 | 2                                   | RO . X2006M0 |
| DIN 1835 B<br>                                 | ★ M5468-040-W40-02-10  | 10      | 40                   | 40                   | 119                  | 190                  | 10                   | 2 | 1,44 | 2                                   | RO . X2006M0 |
| Parallel bore DIN 138<br>transverse keyway<br> | ★ M5468-063-B22-04-10  | 10      | 63                   | 22                   | 50                   |                      | 10                   | 4 | 0,43 | 4                                   | RO . X2006M0 |
|                                                | ★ M5468-080-B27-05-10  | 10      | 80                   | 27                   | 50                   |                      | 10                   | 5 | 0,74 | 5                                   |              |
|                                                | ★ M5468-100-B32-06-10  | 10      | 100                  | 32                   | 50                   |                      | 10                   | 6 | 1,41 | 6                                   |              |
|                                                | ★ M5468-125-B40-07-10  | 10      | 125                  | 40                   | 63                   |                      | 10                   | 7 | 2,86 | 7                                   |              |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>a</sub> [mm]                                      | 40–125                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2614 (T20IP)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>a</sub> [mm]          | 40–125         |
|-----------------------------------------------------------------------------------|------------------------------|----------------|
|  | Torque screwdriver, analogue | FS2003         |
|  | Torque screwdriver, digital  | FS2248         |
|  | Interchangeable blade        | FS2015 (T20IP) |
|  | Screwdriver                  | FS1486 (T20IP) |

## Indexable inserts

|                                                                                    | Designation      | d<br>mm | P      |        |        |        | M      |        | K      |        |        |        | N      |       | S    |        | H      |
|------------------------------------------------------------------------------------|------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|--------|--------|
|                                                                                    |                  |         | HC     |        |        |        | HC     |        | HC     |        |        |        | HC     | HW    | HC   | HC     |        |
|                                                                                    |                  |         | WKP25S | WKP35G | WKP35S | WSP45G | WSM35S | WSP45G | WHH15X | WKK25S | WKP25S | WKP35G | WKP35S | WXN15 | WK10 | WSM35S | WSP45G |
|  | ROGX2006M08-G88  | 20      |        |        |        |        |        |        |        |        |        |        |        |       |      |        |        |
|                                                                                    | ROHX2006M08-A57  | 20      | Ⓔ      | Ⓔ      | Ⓔ      |        |        | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      |       |      |        | Ⓔ      |
|                                                                                    | ROHX2006M08-D57  | 20      |        |        | Ⓔ      |        |        |        |        |        |        |        | Ⓔ      |       |      |        |        |
|                                                                                    | ROHX2006M0T8-A27 | 20      |        |        | Ⓔ      |        |        |        |        |        |        | Ⓔ      |        |       |      |        |        |
|                                                                                    | ROMX2006M08-D57  | 20      | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      |        | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      |       |      | Ⓔ      | Ⓔ      |
|                                                                                    | ROMX2006M0T8-A27 | 20      | Ⓔ      | Ⓔ      | Ⓔ      |        |        |        | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      | Ⓔ      |       |      |        |        |

HW = Uncoated carbide  
HC = Coated carbide

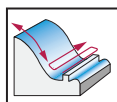
# Copy finishing face milling cutters

M5460

Xtra-tec® XT



- For HSC machining
- Linear measurements relative to metric cutting edge diameter



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5460 | ● | ● | ● | ● | ● | ● | ● |

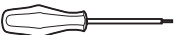
| Tool                     | Designation            | D <sub>c</sub><br>mm | R<br>mm | d <sub>1</sub><br>mm | l <sub>4</sub><br>mm | l <sub>1</sub><br>mm | Z | kg   | No. of<br>indexable<br>inserts | Type        |
|--------------------------|------------------------|----------------------|---------|----------------------|----------------------|----------------------|---|------|--------------------------------|-------------|
| Cylindrical, modular<br> | ★ M5460-008-TC06-02-04 | 8                    | 4       | M6                   | 20                   |                      | 2 | 0,01 | 1                              | P320 . -D08 |
|                          | ★ M5460-010-TC06-02-05 | 10                   | 5       | M6                   | 25                   |                      | 2 | 0,01 | 1                              | P320 . -D10 |
|                          | ★ M5460-012-TC06-02-06 | 12                   | 6       | M6                   | 25                   |                      | 2 | 0,01 | 1                              | P320 . -D12 |
|                          | ★ M5460-016-TC08-02-08 | 16                   | 8       | M8                   | 25                   |                      | 2 | 0,02 | 1                              | P320 . -D16 |
|                          | ★ M5460-020-TC10-02-10 | 20                   | 10      | M10                  | 30                   |                      | 2 | 0,05 | 1                              | P320 . -D20 |
|                          | ★ M5460-025-TC12-02-12 | 25                   | 12,5    | M12                  | 35                   |                      | 2 | 0,08 | 1                              | P320 . -D25 |
|                          | ★ M5460-030-TC16-02-15 | 30                   | 15      | M16                  | 40                   |                      | 2 | 0,14 | 1                              | P320 . -D30 |
|                          | ★ M5460-032-TC16-02-16 | 32                   | 16      | M16                  | 40                   |                      | 2 | 0,14 | 1                              | P320 . -D32 |
| DIN 1835 B<br>           | ★ M5460-008-W12-02-04  | 8                    | 4       | 12                   | 50                   | 140                  | 2 | 0,1  | 1                              | P320 . -D08 |
|                          | ★ M5460-010-W12-02-05  | 10                   | 5       | 12                   | 35                   | 150                  | 2 | 0,11 | 1                              | P320 . -D10 |
|                          | ★ M5460-012-W16-02-06  | 12                   | 6       | 16                   | 58,5                 | 160                  | 2 | 0,2  | 1                              | P320 . -D12 |
|                          | ★ M5460-016-W20-02-08  | 16                   | 8       | 20                   | 65                   | 175                  | 2 | 0,34 | 1                              | P320 . -D16 |
|                          | ★ M5460-020-W25-02-10  | 20                   | 10      | 25                   | 76                   | 190                  | 2 | 0,57 | 1                              | P320 . -D20 |
|                          | ★ M5460-025-W32-02-12  | 25                   | 12,5    | 32                   | 98                   | 210                  | 2 | 1,01 | 1                              | P320 . -D25 |
| Cylindrical shank<br>    | ★ M5460-008-A10-02-04  | 8                    | 4       | 10                   | 25                   | 110                  | 2 | 0,05 | 1                              | P320 . -D08 |
|                          | ★ M5460-010-A12-02-05  | 10                   | 5       | 12                   | 30                   | 130                  | 2 | 0,09 | 1                              | P320 . -D10 |
|                          | ★ M5460-012-A12-02-06  | 12                   | 6       | 12                   | 32                   | 130                  | 2 | 0,09 | 1                              | P320 . -D12 |
|                          | ★ M5460-016-A16-02-08  | 16                   | 8       | 16                   | 36                   | 140                  | 2 | 0,18 | 1                              | P320 . -D16 |
|                          | ★ M5460-020-A20-02-10  | 20                   | 10      | 20                   | 45                   | 160                  | 2 | 0,32 | 1                              | P320 . -D20 |
|                          | ★ M5460-025-A25-02-12  | 25                   | 12,5    | 25                   | 45                   | 160                  | 2 | 0,49 | 1                              | P320 . -D25 |
|                          | ★ M5460-030-A32-02-15  | 30                   | 15      | 32                   | 56                   | 175                  | 2 | 0,89 | 1                              | P320 . -D30 |
|                          | ★ M5460-032-A32-02-16  | 32                   | 16      | 32                   | 56                   | 175                  | 2 | 0,9  | 1                              | P320 . -D32 |

Bodies and assembly parts are included in the scope of delivery.

## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 8                  | 10                  | 12                  | 16                  | 20                  | 25                  | 30–32               |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS397 (T8)<br>1 Nm | FS390 (T15)<br>4 Nm | FS391 (T20)<br>5 Nm | FS392 (T20)<br>5 Nm | FS393 (T20)<br>5 Nm | FS394 (T20)<br>5 Nm | FS395 (T30)<br>6 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 8           | 10           | 12–25        | 30–32        |
|-----------------------------------------------------------------------------------|------------------------------|-------------|--------------|--------------|--------------|
|  | Torque T-handle              |             |              |              | FS2041       |
|  | Torque screwdriver, analogue | FS2001      | FS2003       | FS2003       |              |
|  | Torque screwdriver, digital  | FS2248      | FS2248       | FS2248       | FS2248       |
|  | Interchangeable blade        | FS2007 (T8) | FS2009 (T15) | FS2010 (T20) | FS2046 (T30) |
|  | Handle key                   |             |              |              | FS1175 (T30) |
|  | Screwdriver                  | FS230 (T8)  | FS229 (T15)  | FS228 (T20)  |              |

## Indexable inserts

|                                                                                     |             | D <sub>c</sub> <sup>-0,03</sup><br>mm | P     |       | M     |       | K     |       | S      |       | H     |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
|                                                                                     |             |                                       | HC    |       | HC    |       | HC    |       | HC     |       | HC    |
|                                                                                     |             |                                       | WKP25 | WKP35 | WSP46 | WSM36 | WSP46 | WHH15 | WHH15X | WSM36 | WSP46 |
|  | Designation |                                       |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D08   | 8                                     |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D10   | 10                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D12   | 12                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D16   | 16                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D20   | 20                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D25   | 25                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3201-D30   | 30                                    |       |       |       |       |       |       |        |       |       |
| P3201-D32                                                                           | 32          |                                       |       |       |       |       |       |       |        |       |       |
|  | P3204-D08   | 8                                     |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D10   | 10                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D12   | 12                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D16   | 16                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D20   | 20                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D25   | 25                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D30   | 30                                    |       |       |       |       |       |       |        |       |       |
|                                                                                     | P3204-D32   | 32                                    |       |       |       |       |       |       |        |       |       |

HC = Coated carbide

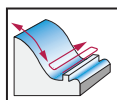
# Copy finishing face milling cutters

M5460 inch

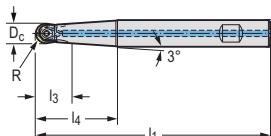
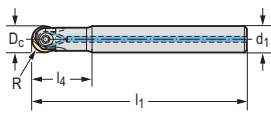
Xtra-tec® XT



- For HSC machining
- Linear measurements relative to metric cutting edge diameter



|       | P | M | K | N | S | H | O |
|-------|---|---|---|---|---|---|---|
| M5460 | ● | ● | ● | ● | ● | ● | ● |

| Tool                                                                                                 | Designation           | D <sub>c</sub><br>inch | R<br>inch | d <sub>1</sub><br>inch | l <sub>4</sub><br>inch | l <sub>1</sub><br>inch | Z | lbs   | No. of<br>indexable<br>inserts | Type           |
|------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-----------|------------------------|------------------------|------------------------|---|-------|--------------------------------|----------------|
|  DIN 1835 B         | ★ M5460.009-W13-02-05 | 0,375                  | 0,187     | 0,500                  | 1,378                  | 5,906                  | 2 | 0,005 | 1                              | P320 . -D09.52 |
|                                                                                                      | ★ M5460.013-W15-02-06 | 0,500                  | 0,250     | 0,625                  | 2,303                  | 6,299                  | 2 | 0,008 | 1                              | P320 . -D12.7  |
|                                                                                                      | ★ M5460.015-W19-02-08 | 0,625                  | 0,312     | 0,750                  | 2,559                  | 6,890                  | 2 | 0,012 | 1                              | P320 . -D15.87 |
|                                                                                                      | ★ M5460.019-W26-02-10 | 0,750                  | 0,375     | 1,000                  | 2,992                  | 7,48                   | 2 | 0,023 | 1                              | P320 . -D19.05 |
|                                                                                                      | ★ M5460.026-W31-02-13 | 1,000                  | 0,500     | 1,250                  | 3,858                  | 8,268                  | 2 | 0,039 | 1                              | P320 . -D25.4  |
|  Cylindrical shank | ★ M5460.009-A13-02-05 | 0,375                  | 0,187     | 0,500                  | 1,307                  | 5,118                  | 2 | 0,004 | 1                              | P320 . -D09.52 |
|                                                                                                      | ★ M5460.013-A13-02-06 | 0,500                  | 0,250     | 0,500                  | 1,331                  | 5,118                  | 2 | 0,004 | 1                              | P320 . -D12.7  |
|                                                                                                      | ★ M5460.015-A15-02-08 | 0,625                  | 0,312     | 0,625                  | 1,48                   | 5,512                  | 2 | 0,007 | 1                              | P320 . -D15.87 |
|                                                                                                      | ★ M5460.019-A19-02-10 | 0,750                  | 0,375     | 0,750                  | 1,807                  | 6,299                  | 2 | 0,012 | 1                              | P320 . -D19.05 |
|                                                                                                      | ★ M5460.026-A26-02-13 | 1,000                  | 0,500     | 1,000                  | 1,854                  | 6,299                  | 2 | 0,020 | 1                              | P320 . -D25.4  |

Bodies and assembly parts are included in the scope of delivery.



## Assembly parts

|                                                                                   | D <sub>c</sub> [mm]                                      | 0,38                | 0,5                 | 0,62                | 0,75                | 1                   |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|  | Clamping screw for indexable insert<br>Tightening torque | FS390 (T15)<br>4 Nm | FS391 (T20)<br>5 Nm | FS392 (T20)<br>5 Nm | FS393 (T20)<br>5 Nm | FS394 (T20)<br>5 Nm |

## Accessories

|                                                                                   | D <sub>c</sub> [mm]          | 0,38         | 0,5–1        |
|-----------------------------------------------------------------------------------|------------------------------|--------------|--------------|
|  | Torque screwdriver, analogue | FS2004       | FS2004       |
|  | Torque screwdriver, digital  | FS2248       | FS2248       |
|  | Interchangeable blade        | FS2009 (T15) | FS2010 (T20) |
|  | Screwdriver                  | FS229 (T15)  | FS228 (T20)  |

## Indexable inserts

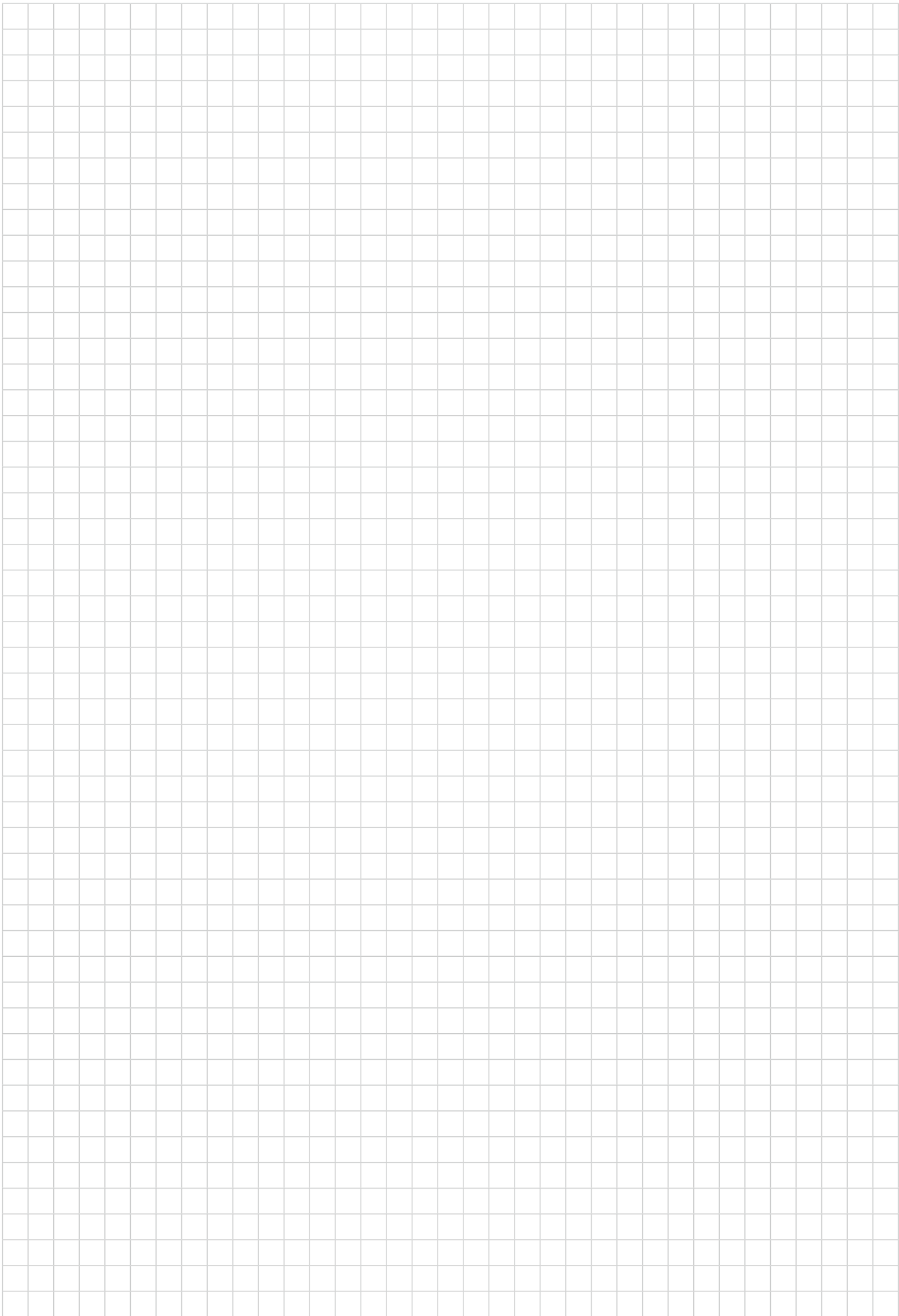
|                                                                                     | Designation  | D <sub>c</sub> <sup>-0,03</sup><br>mm | P     | M     | K     | S     | H      |
|-------------------------------------------------------------------------------------|--------------|---------------------------------------|-------|-------|-------|-------|--------|
|                                                                                     |              |                                       | HC    | HC    | HC    | HC    | HC     |
|                                                                                     |              |                                       | WSP46 | WSM36 | WSP46 | WHH15 | WHH15X |
|   | P3201-D09.52 | 9,530                                 |       |       |       |       | ☺      |
|                                                                                     | P3201-D12.7  | 12,7                                  |       |       | ☺     |       | ☺      |
|                                                                                     | P3201-D15.87 | 15,880                                |       |       | ☺     |       | ☺      |
|                                                                                     | P3201-D19.05 | 19,05                                 |       |       | ☺     |       | ☺      |
|                                                                                     | P3201-D25.4  | 25,4                                  |       |       | ☺     |       | ☺      |
|  | P3204-D09.52 | 9,530                                 | ☺     | ☺     | ☺     | ☺     |        |
|                                                                                     | P3204-D12.7  | 12,7                                  | ☺     | ☺     | ☺     | ☺     |        |
|                                                                                     | P3204-D15.87 | 15,880                                | ☺     | ☺     | ☺     | ☺     |        |
|                                                                                     | P3204-D19.05 | 19,05                                 | ☺     | ☺     | ☺     | ☺     |        |
|                                                                                     | P3204-D25.4  | 25,4                                  | ☺     | ☺     | ☺     | ☺     |        |

HC = Coated carbide



Rotating boring bars/adaptors – D2

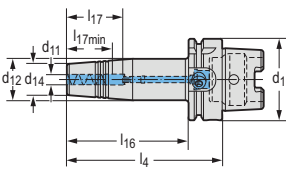
|               |                               |     |
|---------------|-------------------------------|-----|
| Tool adaptors | Rotating boring bars/adaptors | 253 |
|---------------|-------------------------------|-----|

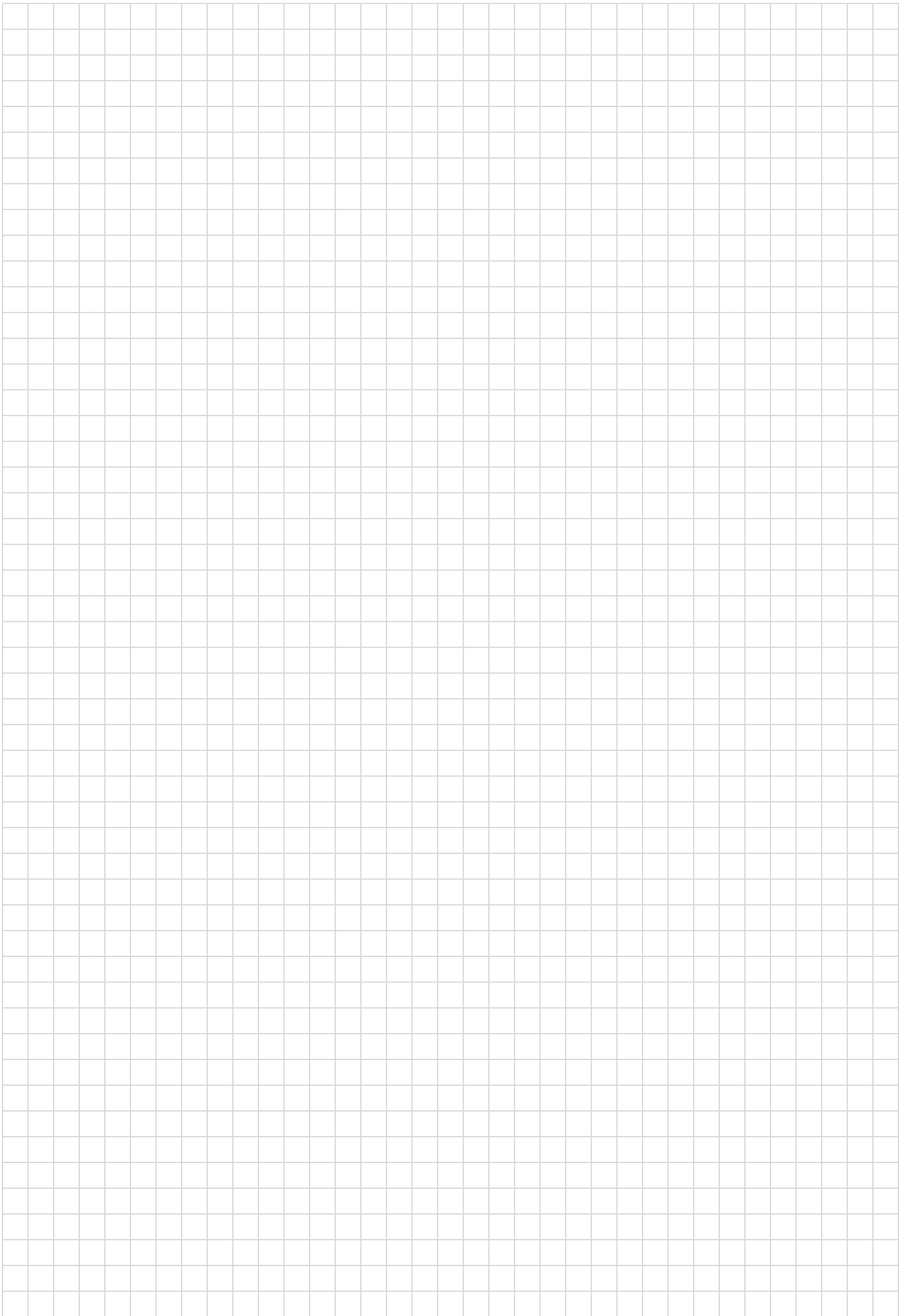


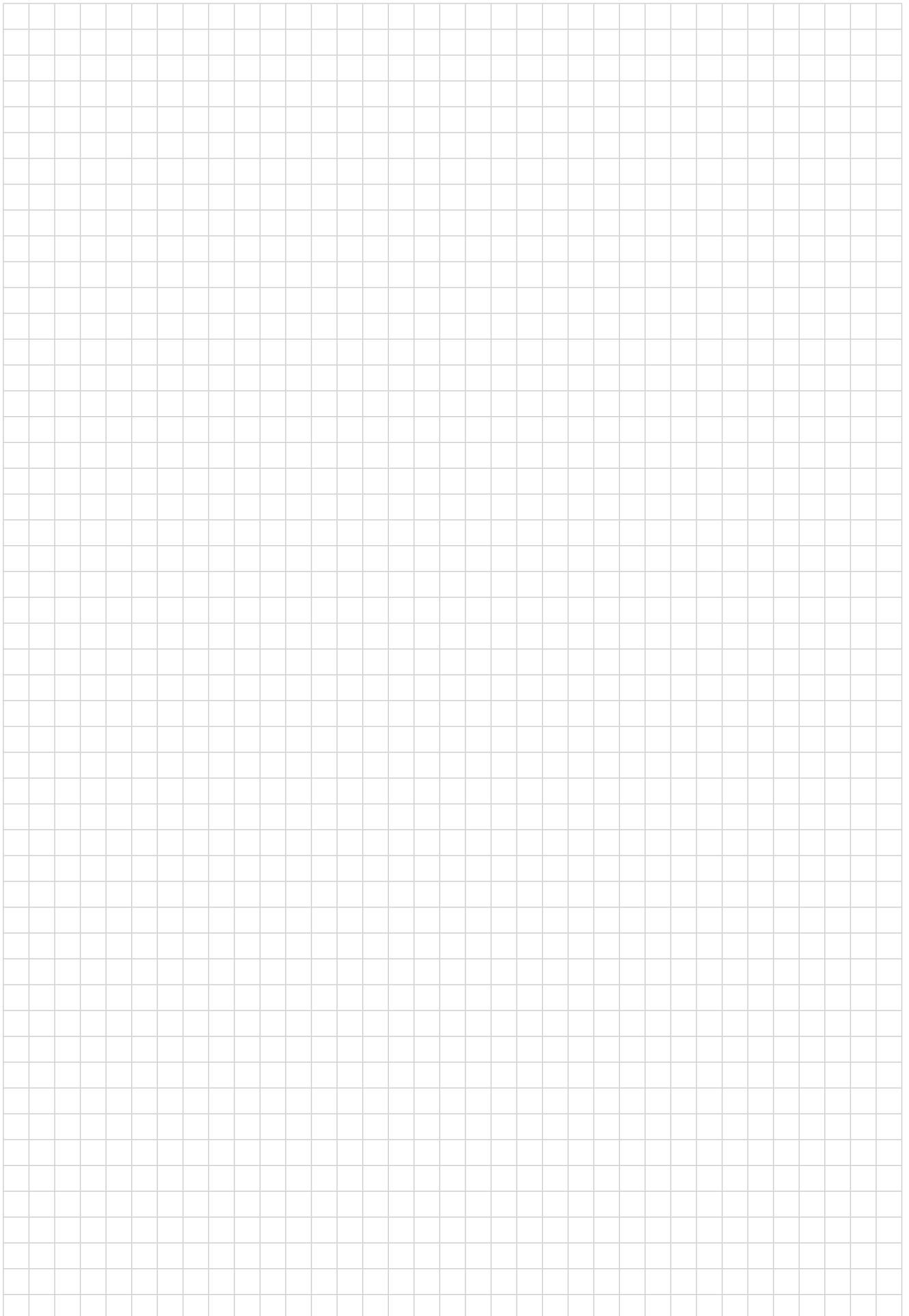
## Slim hydraulic expansion adaption DIN 69893-1 A

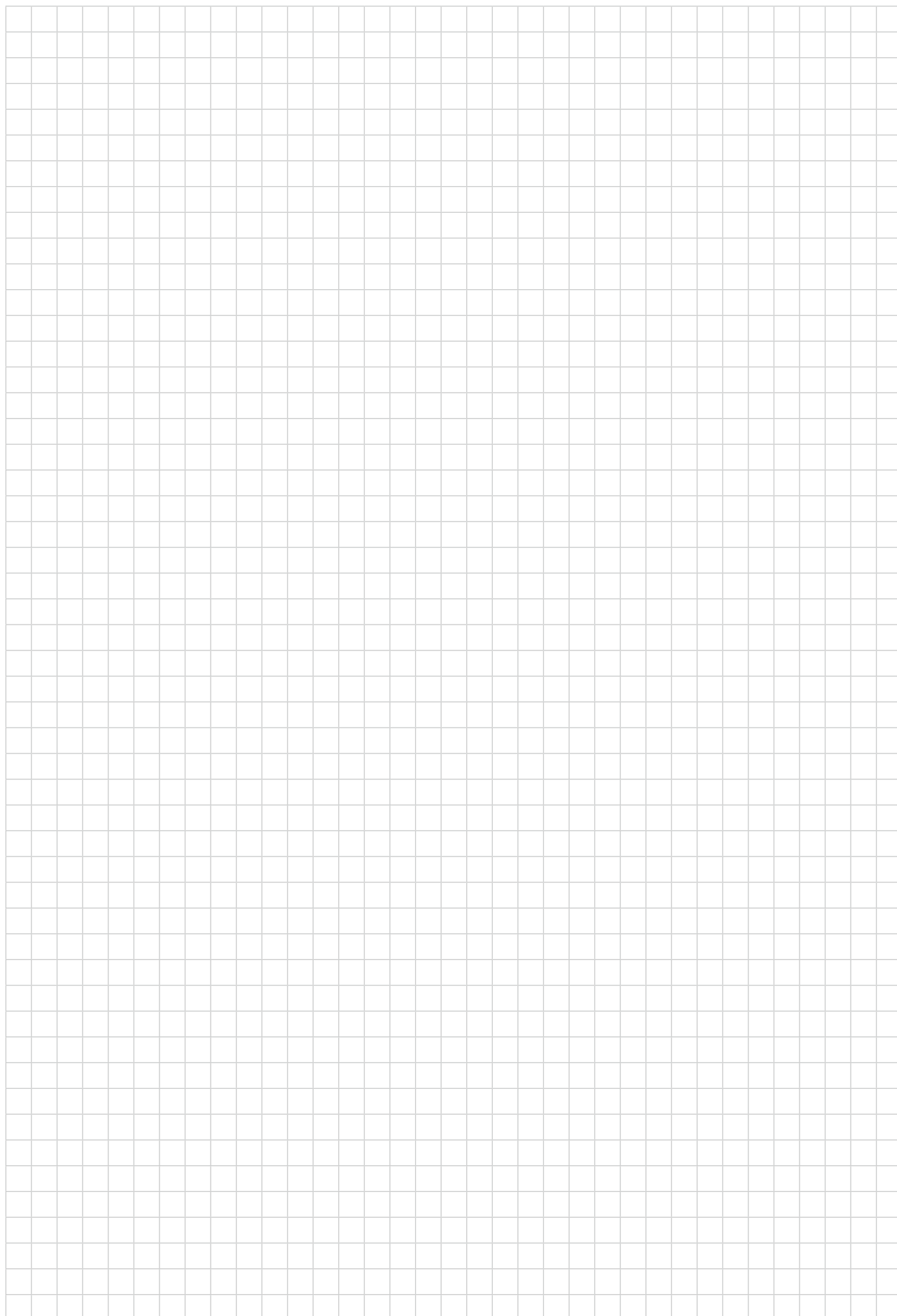
AB019-H 

– For tools with shank in accordance with DIN 1835 form A

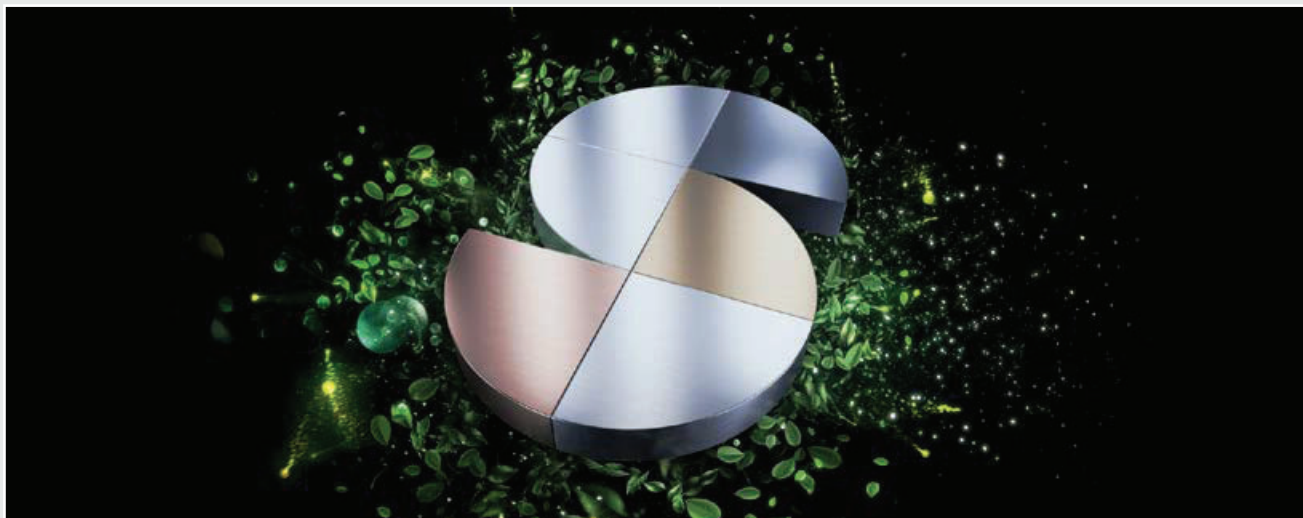
| Tool                                                                                                   | Designation          | d <sub>1</sub> | d <sub>11</sub> | d <sub>12</sub><br>mm | d <sub>14</sub><br>mm | l <sub>4</sub><br>mm | l <sub>6</sub><br>mm | l <sub>7</sub><br>mm | l <sub>7min</sub><br>mm | kg   |
|--------------------------------------------------------------------------------------------------------|----------------------|----------------|-----------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|-------------------------|------|
| HSK DIN 69893-1 A<br> | ★ AB019-H100-P06-085 | HSK-A100       | 6               | 27                    | 21                    | 85                   | 56                   | 36,7                 | 26,7                    | 2,2  |
|                                                                                                        | ★ AB019-H100-P06-120 | HSK-A100       | 6               | 27                    | 21                    | 120                  | 91                   | 38,2                 | 28,2                    | 2,3  |
|                                                                                                        | ★ AB019-H100-P08-085 | HSK-A100       | 8               | 27                    | 21                    | 85                   | 56                   | 36,7                 | 26,7                    | 2,2  |
|                                                                                                        | ★ AB019-H100-P08-120 | HSK-A100       | 8               | 27                    | 21                    | 120                  | 91                   | 38,7                 | 28,7                    | 2,3  |
|                                                                                                        | ★ AB019-H100-P10-090 | HSK-A100       | 10              | 32                    | 24                    | 90                   | 61                   | 42,7                 | 32,7                    | 2,2  |
|                                                                                                        | ★ AB019-H100-P10-120 | HSK-A100       | 10              | 32                    | 24                    | 120                  | 91                   | 43,3                 | 33,2                    | 2,4  |
|                                                                                                        | ★ AB019-H100-P12-095 | HSK-A100       | 12              | 32                    | 24                    | 95                   | 66                   | 47,7                 | 37,7                    | 2,2  |
|                                                                                                        | ★ AB019-H100-P12-120 | HSK-A100       | 12              | 32                    | 24                    | 120                  | 91                   | 47,7                 | 37,7                    | 2,4  |
|                                                                                                        | ★ AB019-H100-P16-100 | HSK-A100       | 16              | 34                    | 27                    | 100                  | 71                   | 53,2                 | 43,2                    | 2,3  |
|                                                                                                        | ★ AB019-H100-P16-120 | HSK-A100       | 16              | 34                    | 27                    | 120                  | 91                   | 53,2                 | 43,2                    | 2,4  |
|                                                                                                        | ★ AB019-H100-P20-105 | HSK-A100       | 20              | 42                    | 33                    | 105                  | 76                   | 55,7                 | 45,7                    | 2,5  |
|                                                                                                        | ★ AB019-H100-P20-120 | HSK-A100       | 20              | 42                    | 33                    | 120                  | 91                   | 55,7                 | 45,7                    | 2,6  |
|                                                                                                        | ★ AB019-H63-P06-080  | HSK-A63        | 6               | 27                    | 21                    | 80                   | 54                   | 38,2                 | 28,2                    | 0,87 |
|                                                                                                        | ★ AB019-H63-P06-120  | HSK-A63        | 6               | 27                    | 21                    | 120                  | 94                   | 38,2                 | 28,2                    | 1    |
|                                                                                                        | ★ AB019-H63-P08-080  | HSK-A63        | 8               | 27                    | 21                    | 80                   | 54                   | 38,2                 | 28,2                    | 0,86 |
|                                                                                                        | ★ AB019-H63-P08-120  | HSK-A63        | 8               | 27                    | 21                    | 120                  | 94                   | 38,2                 | 28,2                    | 1    |
|                                                                                                        | ★ AB019-H63-P10-085  | HSK-A63        | 10              | 32                    | 24                    | 85                   | 59                   | 42,7                 | 32,7                    | 0,9  |
|                                                                                                        | ★ AB019-H63-P10-120  | HSK-A63        | 10              | 32                    | 24                    | 120                  | 94                   | 43,2                 | 33,2                    | 1,1  |
|                                                                                                        | ★ AB019-H63-P12-090  | HSK-A63        | 12              | 32                    | 24                    | 90                   | 64                   | 47,7                 | 37,7                    | 0,9  |
|                                                                                                        | ★ AB019-H63-P12-120  | HSK-A63        | 12              | 32                    | 24                    | 120                  | 94                   | 47,7                 | 37,7                    | 1,1  |
|                                                                                                        | ★ AB019-H63-P14-090  | HSK-A63        | 14              | 34                    | 27                    | 90                   | 64                   | 48,7                 | 38,7                    | 0,99 |
|                                                                                                        | ★ AB019-H63-P14-120  | HSK-A63        | 14              | 34                    | 27                    | 120                  | 94                   | 48,7                 | 38,8                    | 1,19 |
|                                                                                                        | ★ AB019-H63-P16-095  | HSK-A63        | 16              | 34                    | 27                    | 95                   | 69                   | 53,2                 | 43,2                    | 1    |
|                                                                                                        | ★ AB019-H63-P16-120  | HSK-A63        | 16              | 34                    | 27                    | 120                  | 94                   | 53,2                 | 43,2                    | 1,16 |
|                                                                                                        | ★ AB019-H63-P20-100  | HSK-A63        | 20              | 42                    | 33                    | 100                  | 74                   | 55,7                 | 45,7                    | 1,18 |
|                                                                                                        | ★ AB019-H63-P20-120  | HSK-A63        | 20              | 42                    | 33                    | 120                  | 94                   | 55,7                 | 45,7                    | 1,39 |











# Sustainable products and services – certified and transparent

Walter is a company that takes responsibility for people and the environment. Sustainability is a central component of our corporate strategy. It pervades our products and business divisions and is reviewed and certified by independent third parties on a regular basis.

## Proven to be produced to high standards

All processes, procedures, methods and instruments that we use are checked and certified by an independent body according to strict criteria. Occupational health and safety, quality assurance and environmentally friendly actions (for example through resource-saving, energy-efficient and CO<sub>2</sub>-offset production) are examples of this. Our social commitment shows that Walter has a broader definition of responsibility.

## Transparency throughout the entire process chain – for your peace of mind

The integrated management system at Walter includes the sustainable use of resources and production equipment as well as of people – our customers, partners and employees. So that you can count on all of our products meeting these requirements throughout the entire process chain, we apply our own benchmarks to our suppliers too.

## Certification

The integrated management system at Walter includes certification in accordance with:

- ISO 9001 (Quality management)
- VDA 6.4 (Production equipment for the automotive industry)
- ISO 14001 (Environmental management)
- ISO 45001 (Occupational health and safety management)
- ISO 50001 (Energy management)



You can find more information on Walter certification here:



### Occupational health and safety

Walter protects its employees against health hazards. To prevent accidents, we continuously review our processes and take proactive measures as a precaution.



### Environmental and energy management

Environmental protection is an important company objective for Walter. We use energy efficiently and deploy practical methods to sustainably reduce the consumption of energy, water and resources.



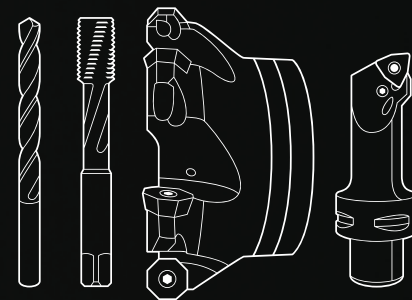
### Quality management

Walter is continuously improving its products and processes. We ensure our product quality using effective measures and procedures – and check it on a regular basis with our comprehensive quality management system.

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