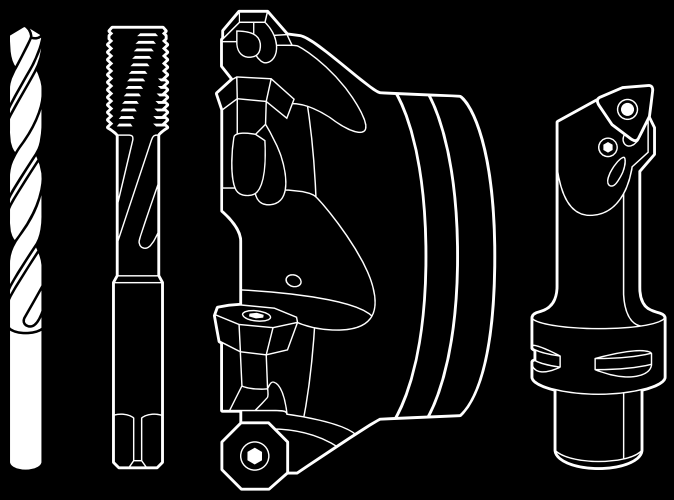
WALTER
Engineering Kompetenz

Tools for solid drilling, counterboring, precision boring and reaming

**Catalog B - Holemaking**
Edition 2022

_ METAL IS OUR WORLD

# Tools for Holemaking



WALTER TITEX PROTOTYP

# 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 catalogs 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 optimized form, at any time.**

## Walter online catalog

**Tool-specific search**
You can find products in the Walter online catalog using the familiar structure of our product catalog 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

TOOL:SHOP

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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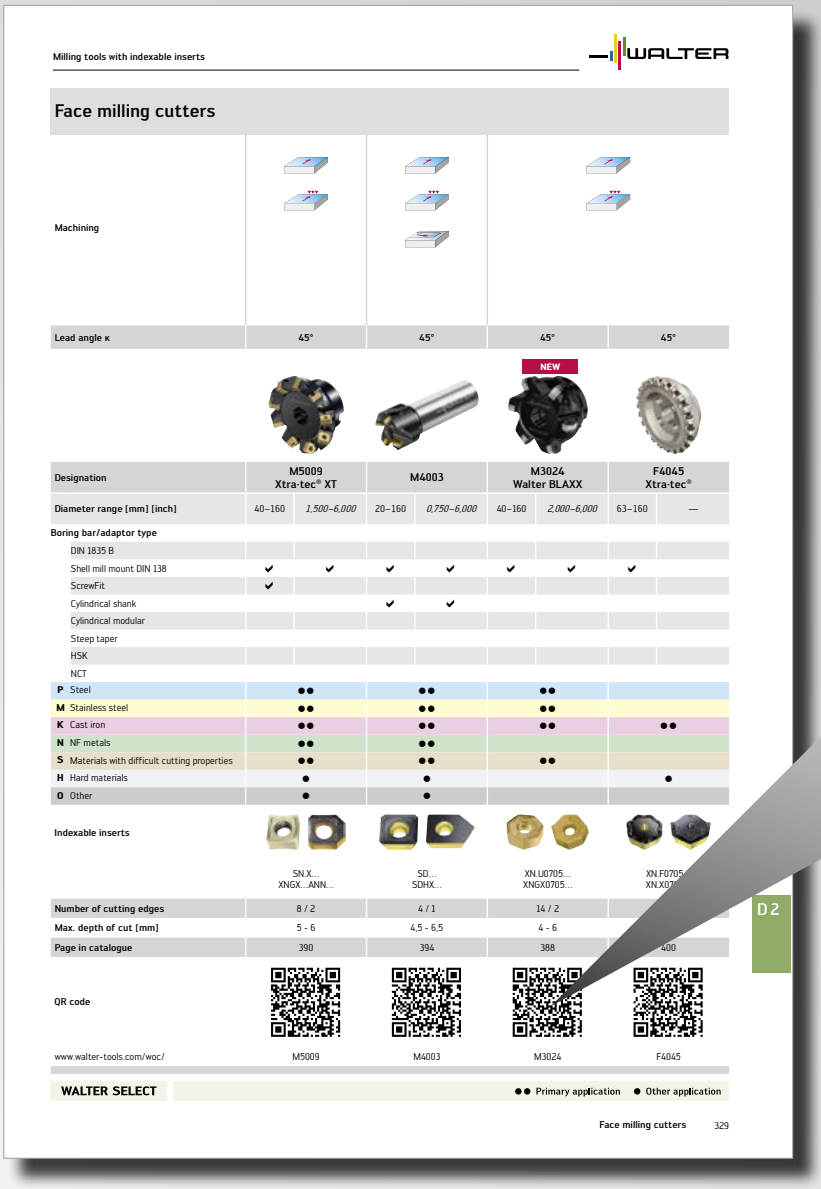
# The structure of the new Walter General Catalog

The new Walter General Catalog presents information about products and applications in a comprehensive and clear manner as an e-document – including direct links to the Walter online catalog.



Milling tools with indexable inserts

WALTER

## Face milling cutters

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Machining | | | | | | | | |
| Lead angle κ | 45° | | 45° | | 45° | | 45° | |
| | | | | | NEW | | | |
| Designation | M5009 Xtra·tec® XT | | M4003 | | M3024 Walter BLAXX | | F4045 Xtra·tec® | |
| Diameter range [mm] [inch] | 40–160 | *1.500–6.000* | 20–160 | *0.750–6.000* | 40–160 | *2.000–6.000* | 63–160 | — |
| Boring bar/adaptor type | | | | | | | | |
| DIN 1835 B | | | | | | | | |
| Shell mill mount DIN 138 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | |
| ScrewFit | ✔ | | | | | | | |
| Cylindrical shank | | | ✔ | ✔ | | | | |
| Cylindrical modular | | | | | | | | |
| Steep taper | | | | | | | | |
| HSK | | | | | | | | |
| NCT | | | | | | | | |
| P Steel | ●● | | ●● | | ●● | | | |
| M Stainless steel | ●● | | ●● | | ●● | | | |
| K Cast iron | ●● | | ●● | | ●● | | ●● | |
| N NF metals | ●● | | ●● | | | | | |
| S Materials with difficult cutting properties | ●● | | ●● | | ●● | | | |
| H Hard materials | ● | | ● | | | | ● | |
| O Other | ● | | ● | | | | | |
| Indexable inserts | SN.X... XNGX...ANN... | | SD... SDHX... | | XN.U0705... XNGX0705... | | XN.F0705 XN.X07 | |
| Number of cutting edges | 8 / 2 | | 4 / 1 | | 14 / 2 | | | |
| Max. depth of cut [mm] | 5 - 6 | | 4,5 - 6,5 | | 4 - 6 | | | |
| Page in catalogue | 390 | | 394 | | 388 | | 400 | |
| QR code | | | | | | | | |
| www.walter-tools.com/woc/ | M5009 | | M4003 | | M3024 | | F4045 | |

WALTER SELECT ●● Primary application ● Other application

D2

Face milling cutters 329

## Product range overviews with applications, materials and QR codes at a glance

The product range overviews include icons indicating applications, images of the products, and the range of materials for which the products can be used; if relevant, they also include shank versions, clamping systems and other important information. This means that you can immediately see which product you need – and go directly to more detailed information about it by scanning the corresponding QR code or typing the link provided into your browser.

NEW

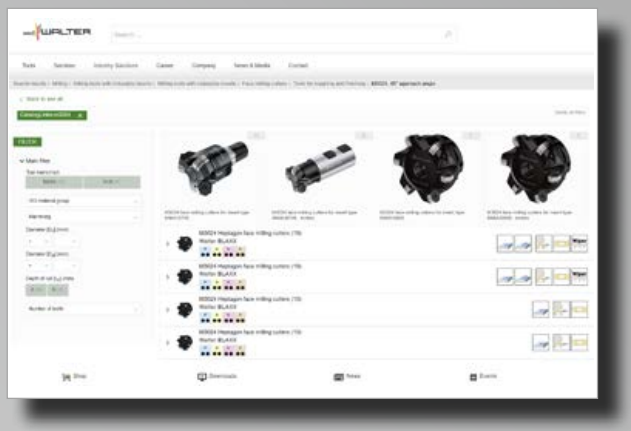
Tools with this icon are product innovations and are displayed in this way in the product range overviews.

Indexable inserts and tools with these red icons are new to the range and are labelled in this way on the ordering page.

## Scan the QR code

to go directly to the sub-page for the corresponding product in the Walter online catalog. The brief overview contains an image of the tool or product, icons representing applications and other information, and the main and secondary applications in the ISO materials sector.

M3024



## Direct link

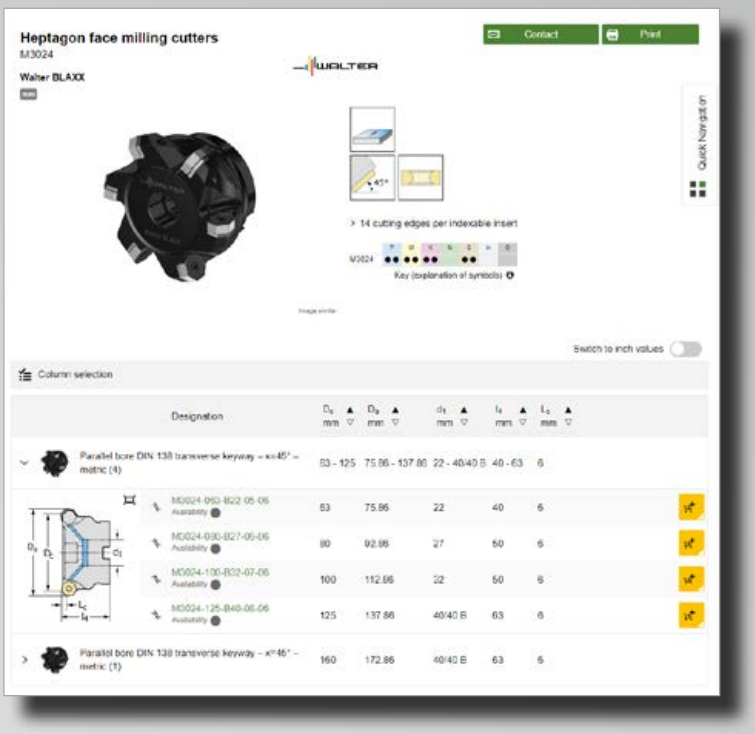
As well as scanning the QR code, you can also type the link directly into your browser:

*www.walter-tools.com/woc/**M3024.***

In the e-document, you can of course click on the link itself.

## Detailed overview of product data

Depending on the product, the information available here or on the following product details page will include dimensions, corresponding indexable inserts, adaptors, and accessories, as well as direct links to additional information such as cutting data recommendations via Walter GPS or technical information like assembly instructions, limit speeds and much more.



# Technologies at Walter.

**Accure·tec**

The patented Walter Accure·tec technology ensures maximum vibration damping on boring bars for turning and adaptors for milling. Ideal for turning, milling and drilling operations involving extended tool applications.

**Tiger·tec® Gold**

Tiger·tec® Gold is the new Walter generation platform for unique indexable insert coatings. It makes maximum tool life and process reliability possible. The CVD grade is produced using the innovative ultra low pressure method (ULP-CVD). The special titanium aluminum nitride layer makes them highly resistant to abrasion, hairline cracks, oxidation and plastic deformation. The heat-resistant, tough PVD grade with aluminum oxide multi-layer is suitable for difficult machining conditions.

**Tiger·tec® Silver**

With Tiger·tec® Silver, Walter is offering a world first in coating technology for indexable inserts. The special aluminum oxide layer with optimized microstructure reduces wear during turning, milling and drilling operations, and increases toughness and temperature resistance for signifi-cantly higher cutting data.

**Walter BLAXX**

Walter BLAXX is the benchmark for a new generation of milling cutters: The milling bodies are extremely robust thanks to their special surface treatment. The milling systems, which are mainly positioned tangentially, are equipped with Tiger·tec® indexable inserts. Tools with the "Walter BLAXX" designation combine high wear resistance with unbeatable performance data.

**Walter Green**

Walter Green: Sustainability and responsible use of resources are central components of our company principles. We use our "Walter Green" seal to show how we implement these principles, such as by offsetting our $CO_2$ emissions with environmental conservation projects.

**Walter Nexxt**

Engineering Kompetenz and digital expertise go hand in hand at Walter. Together with our wholly owned software subsidiary Comara, we develop digital solutions that efficiently connect machines and tools, optimizing their performance on the basis of real-time data. Digital solutions on a level playing field with Industry 4.0 – Walter Nexxt.

**Walter Xpress**

Walter Xpress is the rapid ordering and delivery service offered by Walter Multiply for high-quality special tools. It is available for around 10,000 tool varieties, with a maximum delivery time of two to four weeks from the order date. The ordering process is clearly structured and guarantees absolute planning security. Quotations for all inquiries are calculated and provided within 24 hours.

**XD Technology**

Walter Titex solid carbide drilling and reaming tools stand for precision, high performance and cost-efficiency when drilling in practically any material. Walter Titex XD Technology offers the greatest precision and cost-efficiency in deep-hole drilling operations up to $70 \times D_c$ without pecking.

**Xill·tec™**

With Xill·tec™, the solid carbide milling cutters from the MC230 Advance product range, Walter offers a uniquely wide range, with different dimensions, numbers of teeth and shank versions. This means that users are well-equipped for all conceivable milling operations and ISO materials. Universal use – with excellent quality.

## Xtra·tec®

Xtra·tec® indexable insert milling cutters and drills guarantee extremely soft cutting action and optimal surface quality on almost all materials. Indexable inserts with highly positive geometries and the Tiger·tec® coating have a particularly beneficial hardness/toughness ratio. For maximum productivity and process reliability.

## Xtra·tec®XT

Xtra·tec® XT is the latest generation of Walter milling tools. As the "Xtended" Xtra·tec® technology, it offers a completely new perspective on productivity and process reliability. It can cover nearly all milling operations in every common material group: More reliable, productive, cost-efficient than ever before – all while compensating for the $CO_2$ emissions through Walter Green.

## X·treme Evo

The X·treme Evo solid carbide drills from the DC160 Advance product range and DC260 Advance step drills embody "the next generation of drilling": Can be used universally for all ISO material groups, machine concepts and applications. With outstanding tool life, productivity and process reliability.

Walter Capto™ is a modular tool adaptor system. It is suitable for all turning, milling, drilling and threading processes. Its ISO-standardized polygon taper absorbs torsional moments and bending moments extremely well and ensures optimal repeat accuracy.

Walter ConeFit is an extremely flexible solid carbide milling system with a wide range of high-performance exchangeable heads and shaft variants. Its conical thread can self-center, thereby guaranteeing maximum stability and concentrically.

Walter ScrewFit users benefit from maximum flexibility. Its modular interface is suitable for a wide variety of boring bars and adaptors and a wide range of tool diameters and lengths for milling and drilling.

The precision-ground QuadFit interface with taper and support face characteristics the precision of the vibration-damped boring bars for turning and thread turning with Walter Accure·tec technology. The exchangeable head system, which can be rotated by 180°, makes it possible to rapidly replace tools with high indexing accuracy.

In turning and grooving operations, the Walter precision cooling system provides cooling at the center of the chip formation. Its dual coolant jets are directed precisely onto the flank and rake faces. In drilling operations, the coolant jets exit close to the cutting edge, cooling the flank and rake faces at the same time. This system provides significantly increased tool life, improved chip breaking and chip removal, greater efficiency and higher quality.

"Flash" refers to specialized solid carbide milling cutters for high-feed milling. Their end-face geometry reduces the chip thickness "h" and therefore enables an extremely high feed per tooth. Forces that occur are diverted axially towards the center of the tool, which helps to stabilize the machining process.

On Walter turning toolholders with "SmartLock", the clamping screw can be operated from the side of the tool. This makes it possible to change the inserts in the machine quickly and easily. Tool change times are reduced as a result. Ideal for use on CNC lathe and multi-spindle machines.

# B – Drilling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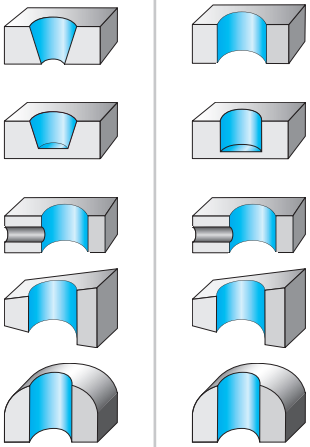
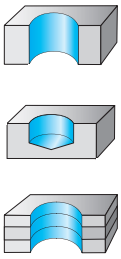
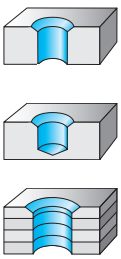
# Solid carbide drills with internal coolant











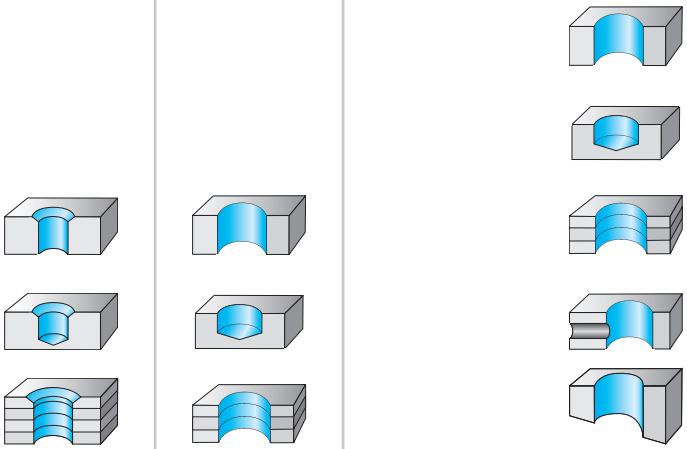
| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | 2 x $D_C$ | 2 x $D_C$ | 2 x $D_C$ | | 3 x $D_C$ |
| | | | NEW | | |
| |  |  |  |  |  |
| **Designation** | K5191TFT<br>X-treme Pilot 180 C | DC118<br>Supreme | DB131<br>Supreme | A6181TFT<br>XD Pilot | DC260<br>Advance<br>X-treme Evo |
| **Additional services** | | | | | R |
| **Standard** | Walter | Walter | Walter | Walter | Walter |
| **Coating / grade** | TFT | WJ30ET | WJ30EL | TFT | WJ30ET |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.157–0.276 [4–7] | 0.118–0.787 [3–20] | 0.079–0.116 [2–2.95] | 0.118–0.630 [3–16] | 0.130–0.551 [3.3–14] |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● | ●● | ● |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● | ●● | ●● |
| **H** Hard materials | ● | ● | ● | ● | ● |
| **O** Other | ● | ● | ● | ● | ● |
| **Page in catalog** | B 23 | B 24 | B 26 | B 27 | B 29 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | K5191TFT | DC118 | DB131 | A6181TFT | DC260 |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide drills with internal coolant





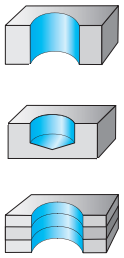
| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | 3 x $D_C$ | 3 x $D_C$ | 3 x $D_C$ | | |
| |  |  |  |  |  |
| **Designation** | DC260 Advance X-treme Evo | DC175 Supreme | DC170 Supreme | DC160 Advance X-treme Evo | DC160 Advance X-treme Evo |
| **Additional services** | R | R | R | R | R |
| **Standard** | Walter | DIN 6537 K | DIN 6537 K | DIN 6537 K | DIN 6537 K |
| **Coating / grade** | WJ30ET | WJ30RZ | WJ30EJ | WJ30ET | WJ30ET |
| **Shank** | DIN 6535 HE | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HE |
| **Diameter range inch [mm]** | 0.130–0.551 [3.3–14] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] |
| **P** Steel | ●● | ● | ●● | ●● | ●● |
| **M** Stainless steel | ● | ●● | | ● | ● |
| **K** Cast iron | ●● | | ●● | ●● | ●● |
| **N** NF metals | ●● | ● | | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | | ●● | ●● |
| **H** Hard materials | ● | | ● | ● | ● |
| **O** Other | ● | ● | | ● | ● |
| **Page in catalog** | B 29 | B 30 | B 34 | B 37 | B 37 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DC260 | DC175 | DC170-03-A1 | DC160 | DC160 |

**WALTER SELECT**

●● Primary application ● Other application

B1

# Solid carbide drills with internal coolant

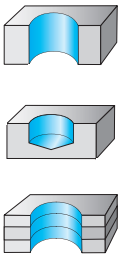


| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | 3 x $D_C$ | | | 5 x $D_C$ | 5 x $D_C$ |
| |  |  |  |  |  |
| **Designation** | DC150 Perform | DC150 Perform | A3289DPL X-treme Plus | DC175 Supreme | DC170 Supreme |
| **Additional services** | R | R | R | R | R |
| **Standard** | DIN 6537 K | DIN 6537 K | DIN 6537 K | Walter | DIN 6537 L |
| **Coating / grade** | WJ30RE | WJ30RE | DPL | WJ30RZ | WJ30EJ |
| **Shank** | DIN 6535 HA | DIN 6535 HE, turned 180° DIN 6535 HB | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] |
| **P** Steel | ●● | ●● | ●● | ● | ●● |
| **M** Stainless steel | ● | ● | ●● | ●● | |
| **K** Cast iron | ●● | ●● | ●● | | ●● |
| **N** NF metals | ●● | ●● | ●● | ● | |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● | ●● | |
| **H** Hard materials | ● | ● | ●● | | ● |
| **O** Other | ● | ● | ● | ● | |
| **Page in catalog** | B 45 | B 45 | B 50 | B 53 | B 57 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DC150 | DC150 | A3289DPL | DC175 | DC170 |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide drills with internal coolant





| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | **5 x $D_C$** | | | **5 x $D_C$** | |

| | | | | | |
|---|---|---|---|---|---|
| **Designation** | DC165 Advance | DC160 Advance X·treme Evo | DC160 Advance X·treme Evo | DC150 Perform | DC150 Perform |
| **Additional services** | R | R | R | R | R |
| **Standard** | Walter | DIN 6537 L | DIN 6537 L | DIN 6537 L | DIN 6537 L |
| **Coating / grade** | WJ30UU | WJ30ET | WJ30ET | WJ30RE | WJ30RE |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HE | DIN 6535 HA | DIN 6535 HE, turned 180° DIN 6535 HB |
| **Diameter range inch [mm]** | 0.157–0.630 [4–16] | 0.118–0.984 [3–25] | 0.118–0.984 [3–25] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] |
| **P** Steel | | ●● | ●● | ●● | ●● |
| **M** Stainless steel | | ● | ● | ● | ● |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | | ●● | ●● | ●● | ●● |
| **H** Hard materials | | ● | ● | ● | ● |
| **O** Other | | ● | ● | ● | ● |
| **Page in catalog** | **B 60** | **B 61** | **B 61** | **B 70** | **B 70** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DC165 | DC160 | DC160 | DC150 | DC150 |

**WALTER SELECT**

●● Primary application ● Other application

B1

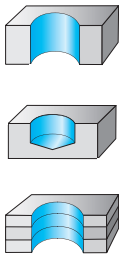
# Solid carbide drills with internal coolant

| | | | | |
|---|---|---|---|---|
| **Drilling depth** | | | 8 x $D_C$ | 8 x $D_C$ |
| | NEW | | | |
| |  |  |  |  |
| **Designation** | DB133 Supreme | A3389DPL X-treme Plus | DC175 Supreme | DC170 Supreme |
| **Additional services** | R | R | R | R |
| **Standard** | Walter | DIN 6537 L | Walter | Walter |
| **Coating / grade** | WJ30EL | DPL | WJ30RY | WJ30EJ |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.028–0.116 [0.7–2.95] | 0.118–0.787 [3–20] | 0.118–0.630 [3–16] | 0.118–0.787 [3–20] |
| **P** Steel | ●● | ●● | ● | ●● |
| **M** Stainless steel | ●● | ●● | ●● | |
| **K** Cast iron | ●● | ●● | | ●● |
| **N** NF metals | ●● | ●● | ● | |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● | |
| **H** Hard materials | ● | ●● | | ● |
| **O** Other | ● | ● | ● | |
| **Page in catalog** | **B 77** | **B 79** | **B 83** | **B 85** |
| **QR code** | | | | |
| www.walter-tools.com/woc/ | DB133 | A3389DPL | DC175 | DC170 |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide drills with internal coolant

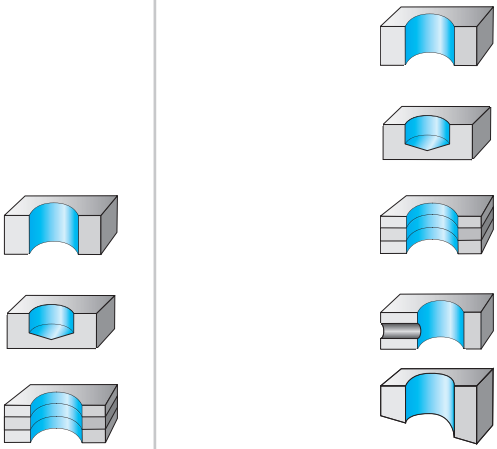
| | | | | |
|---|---|---|---|---|
| |  |  | |  |
| **Drilling depth** | **8 x $D_C$** | **8 x $D_C$** | | **8 x $D_C$** |
| | | | NEW | |
| |  |  |  |  |
| **Designation** | DC160<br>Advance<br>X-treme Evo | DC150<br>Perform | DB133<br>Supreme | A6489DPP<br>X-treme D8 |
| **Additional services** | R | R | R | R |
| **Standard** | Walter | Walter | Walter | Walter |
| **Coating / grade** | WJ30ET | WJ30TA | WJ30ER | DPP |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.028–0.116 [0.7–2.95] | 0.118–0.787 [3–20] |
| **P** Steel | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ● | ● | ●● | ●● |
| **K** Cast iron | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● | ●● |
| **H** Hard materials | ● | ● | ● | ●● |
| **O** Other | ● | ● | ● | ● |
| **Page in catalog** | **B 88** | **B 92** | **B 96** | **B 98** |
| **QR code** | | | | |
| www.walter-tools.com/woc/ | DC160 | DC150 | DB133 | A6489DPP |

**WALTER SELECT**

●● Primary application ● Other application

B1

# Solid carbide drills with internal coolant



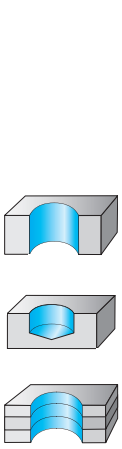
| | | | | |
|---|---|---|---|---|
| **Drilling depth** | **8 x $D_C$** | **12 x $D_C$** | | |
| |  |  |  |  |
| **Designation** | A3486TIP Alpha® 44 | DC170 Supreme | DC160 Advance X-treme Evo | DC150 Perform |
| **Additional services** | R | R | R | R |
| **Standard** | Walter | Walter | Walter | Walter |
| **Coating / grade** | TIP | WJ30EJ | WJ30EU | WJ30TA |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.197–0.354 [5–9] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] |
| **P** Steel | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ● | | ● | ● |
| **K** Cast iron | ● | ●● | ●● | ●● |
| **N** NF metals | ●● | | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | | ●● | ●● |
| **H** Hard materials | | ● | ● | ●● |
| **O** Other | ● | | ● | ● |
| **Page in catalog** | **B 101** | **B 102** | **B 105** | **B 108** |
| **QR code** | | | | |
| www.walter-tools.com/woc/ | A3486TIP | DC170 | DC160 | DC150 |

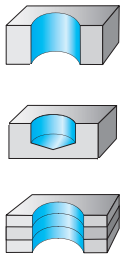
**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide drills with internal coolant







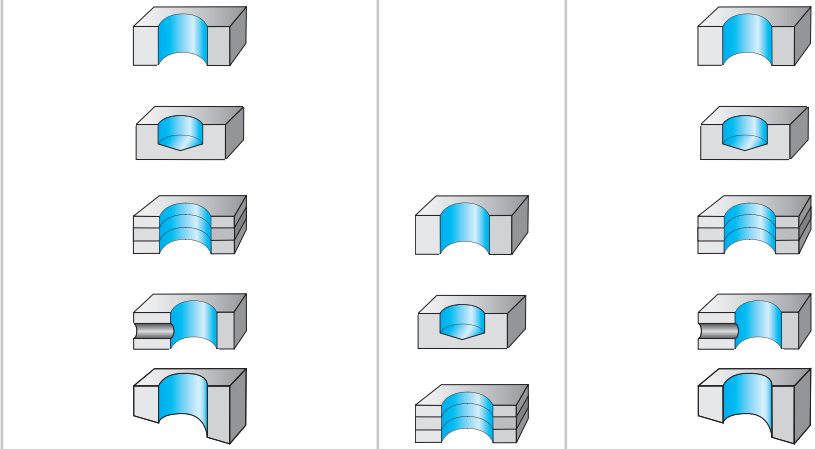
| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | 12 x $D_C$ | 12 x $D_C$ | 16 x $D_C$ | | 16 x $D_C$ |
| | NEW | | | | NEW |
| |  |  |  |  |  |
| **Designation** | DB133 Supreme | A6589DPP X-treme D12 | DC170 Supreme | DC160 Advance X-treme Evo | DB133 Supreme |
| **Additional services** | R | R | R | R | R |
| **Standard** | Walter | Walter | Walter | Walter | Walter |
| **Coating / grade** | WJ30ER | DPP | WJ30EJ | WJ30EU | WJ30ER |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.028–0.114 [0.7–2.9] | 0.118–0.787 [3–20] | 0.118–0.630 [3–16] | 0.118–0.630 [3–16] | 0.079–0.114 [2–2.9] |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | | ● | ●● |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | | ●● | ●● |
| **H** Hard materials | ● | ●● | ● | ● | ● |
| **O** Other | ● | ● | | ● | ● |
| **Page in catalog** | B 111 | B 113 | B 116 | B 118 | B 120 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DB133 | A6589DPP | DC170 | DC160 | DB133 |

**WALTER SELECT**

●● Primary application ● Other application

B1

# Solid carbide drills with internal coolant

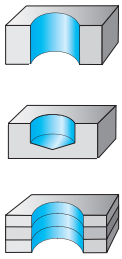


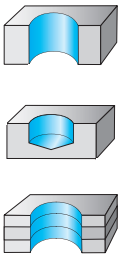
| | | | | |
|---|---|---|---|---|
| **Drilling depth** | **20 x $D_C$** | **20 x $D_C$** | **20 x $D_C$** | **25 x $D_C$** |
| | | NEW | | |
| **Designation** | DC170 Supreme | DC160 Advance X-treme Evo | DB133 Supreme | A6794TFP X-treme DH20 | DC170 Supreme |
| **Additional services** | R | R | R | R | R |
| **Standard** | Walter | Walter | Walter | Walter | Walter |
| **Coating / grade** | WJ30EJ | WJ30EU | WJ30ER | TFP | WJ30EJ |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.118–0.630 [3–16] | 0.118–0.630 [3–16] | 0.079–0.114 [2–2.9] | 0.118–0.394 [3–10] | 0.118–0.472 [3–12] |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | | ● | ●● | ● | |
| **K** Cast iron | ●● | ●● | ●● | ● | ●● |
| **N** NF metals | | ●● | ●● | ● | |
| **S** Materials with difficult cutting properties | | ●● | ●● | ● | |
| **H** Hard materials | ● | ● | ● | ● | ● |
| **O** Other | | ● | ● | | |
| **Page in catalog** | **B 121** | **B 123** | **B 125** | **B 126** | **B 127** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DC170 | DC160 | DB133 | A6794TFP | DC170 |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide drills with internal coolant





| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | 25 x $D_C$ | 25 x $D_C$ | 30 x $D_C$ | | 30 x $D_C$ |
| | | NEW | | | NEW |
| |  |  |  |  |  |
| **Designation** | DC160 Advance X-treme Evo | DB133 Supreme | DC170 Supreme | DC160 Advance X-treme Evo | DB133 Supreme |
| **Additional services** | R | R | R | R | R |
| **Standard** | Walter | Walter | Walter | Walter | Walter |
| **Coating / grade** | WJ30EU | WJ30ER | WJ30EJ | WJ30EU | WJ30ER |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.118–0.472 [3–12] | 0.079–0.114 [2–2.9] | 0.118–0.472 [3–12] | 0.118–0.472 [3–12] | 0.079–0.114 [2–2.9] |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ● | ●● | | ● | ●● |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | | ●● | ●● |
| **H** Hard materials | ● | ● | ● | ● | ● |
| **O** Other | ● | ● | | ● | ● |
| **Page in catalog** | B 128 | B 130 | B 131 | B 132 | B 134 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DC160 | DB133 | DC170 | DC160 | DB133 |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide drills with internal coolant



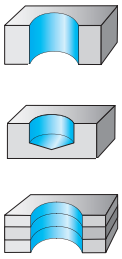
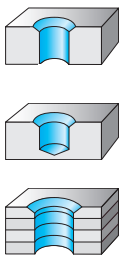
| Drilling depth | 30 x $D_C$ | 40 x $D_C$ | 50 x $D_C$ |
|---|---|---|---|
| |  |  |  |
| **Designation** | A6994TFP<br>X-treme DH30 | A7495TTP<br>X-treme D40 | A7595TTP<br>X-treme D50 |
| **Additional services** | R | R | R |
| **Standard** | Walter | Walter | Walter |
| **Coating / grade** | TFP | TTP | TTP |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.118–0.394 [3–10] | 0.118–0.433 [3–11] | 0.118–0.354 [3–9] |
| **P** Steel | ●● | ●● | ●● |
| **M** Stainless steel | ● | ● | ● |
| **K** Cast iron | ● | ●● | ●● |
| **N** NF metals | ● | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | | |
| **H** Hard materials | ● | | |
| **O** Other | | | |
| **Page in catalog** | B 135 | B 136 | B 137 |
| **QR code** | | | |
| www.walter-tools.com/woc/ | A6994TFP | A7495TTP | A7595TTP |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide drills without internal coolant



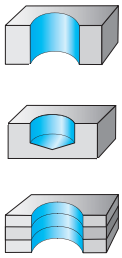
| | | | | | |
|---|---|---|---|---|---|
| |  |  | |  | |
| **Drilling depth** | **2 x $D_C$** | **3 x $D_C$** | | **3 x $D_C$** | |
| |  |  |  |  |  |
| **Designation** | DB131 Supreme | DC260 Advance X-treme Evo | DC260 Advance X-treme Evo | DC160 Advance X-treme Evo | DC160 Advance X-treme Evo |
| **Additional services** | | R | R | R | R |
| **Standard** | Walter | Walter | Walter | DIN 6537 K | DIN 6537 K |
| **Coating / grade** | WJ30EL | WJ30ET | WJ30ET | WJ30ET | WJ30ET |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HE | DIN 6535 HA | DIN 6535 HE |
| **Diameter range inch [mm]** | 0.020–0.078 [0.5–1.98] | 0.130–0.551 [3.3–14] | 0.130–0.571 [3.3–14.5] | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | | | | |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ● | ● | ● | ● |
| **S** Materials with difficult cutting properties | ● | ● | ● | ● | ● |
| **H** Hard materials | ● | ● | ● | ● | ● |
| **O** Other | ● | ● | ● | ● | ● |
| **Page in catalog** | **B 183** | **B 138** | **B 138** | **B 139** | **B 139** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DB131 | DC260 | DC260 | DC160 | DC160 |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide drills without internal coolant



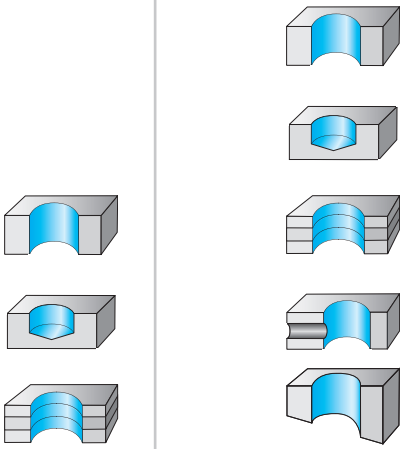


| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | $3 \times D_C$ | | | $3 \times D_C$ | |
| |  |  |  |  |  |
| **Designation** | DC150 Perform | DC150 Perform | DC150 Perform | A1166TIN | A1166 |
| **Additional services** | R | R | | R | R |
| **Standard** | DIN 6537 K | DIN 6537 K | DIN 6539 | Walter | Walter |
| **Coating / grade** | WJ30RE | WJ30RE | WJ30RE | TIN | uncoated |
| **Shank** | DIN 6535 HA | DIN 6535 HE, turned 180° DIN 6535 HB | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.059–0.114 [1.5–2.9] | 0.118–0.551 [3–14] | 0.118–0.709 [3–18] |
| **P** Steel | ●● | ●● | ●● | ● | ● |
| **M** Stainless steel | ● | ● | ● | | |
| **K** Cast iron | ●● | ●● | ●● | | |
| **N** NF metals | ● | ● | ● | | ● |
| **S** Materials with difficult cutting properties | ● | ● | ● | | ● |
| **H** Hard materials | ● | ● | ● | ● | ● |
| **O** Other | ● | ● | ● | | |
| **Page in catalog** | **B 148** | **B 148** | **B 147** | **B 157** | **B 157** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DC150 | DC150 | DC150 | A1166TIN | A1166 |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide drills without internal coolant



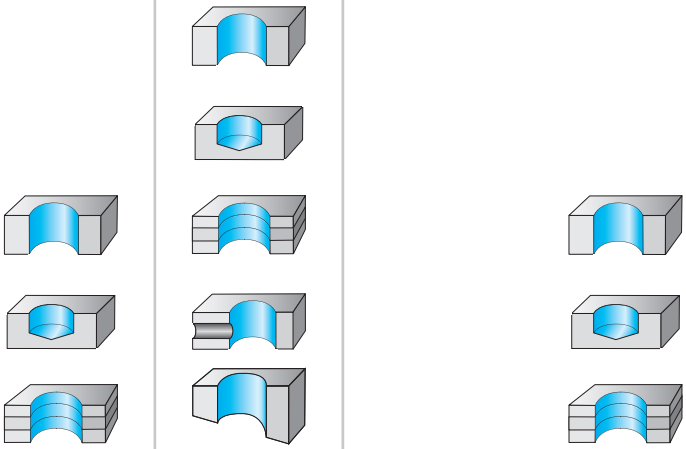


| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | **3 x $D_C$** | **5 x $D_C$** | | **5 x $D_C$** | |
| |  |  |  |  |  |
| **Designation** | A1163 | DC160 Advance X-treme Evo | DC160 Advance X-treme Evo | DC150 Perform | DB133 Supreme |
| **Additional services** | R | R | R | R | R |
| **Standard** | DIN 6539 | DIN 6537 L | DIN 6537 L | DIN 6537 L | Walter |
| **Coating / grade** | uncoated | WJ30ET | WJ30ET | WJ30TA | WJ30EL |
| **Shank** | Cylindrical shank | DIN 6535 HA | DIN 6535 HE | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.039–0.472 [1–12] | 0.118–0.984 [3–25] | 0.118–0.984 [3–25] | 0.118–0.787 [3–20] | 0.020–0.116 [0.5–2.95] |
| **P** Steel | | ●● | ●● | ●● | ●● |
| **M** Stainless steel | | | | ● | |
| **K** Cast iron | ● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ● | ● | ● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ● | ● | ● |
| **H** Hard materials | | ● | ● | ● | ● |
| **O** Other | ●● | ● | ● | ● | ● |
| **Page in catalog** | **B 154** | **B 164** | **B 164** | **B 172** | **B 159** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | A1163 | DC160 | DC160 | DC150 | DB133 |

**WALTER SELECT** ●● Primary application ● Other application

B1

# Solid carbide drills without internal coolant



| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | **5 x $D_C$** | **5 x $D_C$** | **8 x $D_C$** | | |
| |  |  |  |  |  |
| **Designation** | DB130 Supreme | A3367 BSX | DB133 Supreme | A1276TFL Alpha® 22 | A1263 |
| **Additional services** | | R | R | R | R |
| **Standard** | DIN 1899 | DIN 6537 L | Walter | DIN 338 | DIN 338 |
| **Coating / grade** | WJ30UU | uncoated | WJ30ER | TFL | uncoated |
| **Shank** | Cylindrical shank | DIN 6535 HA | DIN 6535 HA | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.004–0.057 [0.1–1.45] | 0.118–0.630 [3–16] | 0.020–0.116 [0.5–2.95] | 0.118–0.402 [3–10.2] | 0.024–0.472 [0.6–12] |
| **P** Steel | ●● | | ●● | ●● | |
| **M** Stainless steel | ●● | | | | |
| **K** Cast iron | ●● | ●● | ●● | ●● | ● |
| **N** NF metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ● | ● | ● | ● |
| **H** Hard materials | | | ● | | |
| **O** Other | ●● | ● | ● | | ●● |
| **Page in catalog** | **B 161** | **B 176** | **B 177** | **B 179** | **B 180** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DB130 | A3367 | DB133 | A1276TFL | A1263 |

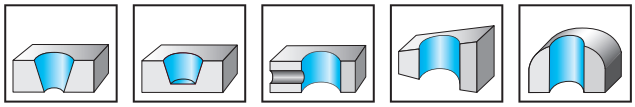
**WALTER SELECT** ●● Primary application ● Other application

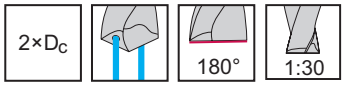
# Solid carbide pilot drills with coolant-through

## K5191TFT

## X-treme Pilot 180 C

– For angled and round surfaces (e.g. crankshafts)
– Conical contour 1:30 – for step-free piloting

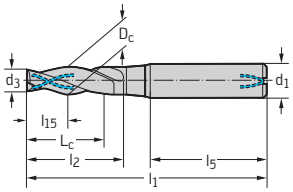





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TFT | ●● | ●● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | $D_c$ mm | $D_c$ in | $d_3$ mm | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | $l_{15}$ mm | h6 |
|---|---|---|---|---|---|---|---|---|---|
| K5191TFT-4 | 4 | 0.1575 | 3.9 | 10 | 59 | 16 | 36 | 3 | 6 |
| K5191TFT-5 | 5 | 0.1969 | 4.9 | 11 | 63 | 19 | 36 | 3 | 6 |
| K5191TFT-6 | 6 | 0.2362 | 5.85 | 13 | 68 | 22 | 36 | 4.5 | 8 |
| K5191TFT-7 | 7 | 0.2756 | 6.85 | 15 | 73 | 26 | 36 | 4.5 | 8 |

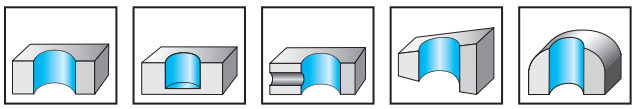
**WALTER SELECT**

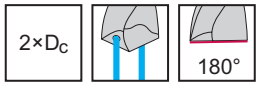
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide pilot drill
## DC118 Supreme

– Special diameter tolerance for XD technology

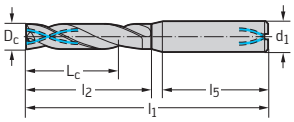





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | ●● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | p7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | $d_1$ mm | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC118-02-03.000A1- | 3 | 0.1181 | | 7.8 | 62 | 12 | 42 | 6 | ☺ |
| DC118-02-03.175A1- | 3.175 | 0.1250 | 1/8" | 7.7 | 62 | 12 | 42 | 6 | ☺ |
| DC118-02-03.300A1- | 3.3 | 0.1299 | | 7.6 | 62 | 12 | 42 | 6 | ☺ |
| DC118-02-03.500A1- | 3.5 | 0.1378 | | 8.4 | 62 | 13 | 42 | 6 | ☺ |
| DC118-02-03.572A1- | 3.572 | 0.1406 | 9/64" | 8.3 | 62 | 13 | 42 | 6 | ☺ |
| DC118-02-03.969A1- | 3.969 | 0.1563 | 5/32" | 8.9 | 66 | 14 | 42 | 6 | ☺ |
| DC118-02-04.000A1- | 4 | 0.1575 | | 8.9 | 66 | 14 | 42 | 6 | ☺ |
| DC118-02-04.200A1- | 4.2 | 0.1654 | | 10.7 | 66 | 16 | 42 | 6 | ☺ |
| DC118-02-04.500A1- | 4.5 | 0.1772 | | 10.4 | 66 | 16 | 42 | 6 | ☺ |
| DC118-02-04.763A1- | 4.763 | 0.1875 | 3/16" | 12.2 | 66 | 18 | 42 | 6 | ☺ |
| DC118-02-04.800A1- | 4.8 | 0.189 | | 12.1 | 66 | 18 | 42 | 6 | ☺ |
| DC118-02-05.000A1- | 5 | 0.1969 | | 11.9 | 66 | 18 | 42 | 6 | ☺ |
| DC118-02-05.500A1- | 5.5 | 0.2165 | | 13.5 | 66 | 20 | 42 | 6 | ☺ |
| DC118-02-05.556A1- | 5.556 | 0.2187 | 7/32" | 14.4 | 66 | 21 | 42 | 6 | ☺ |
| DC118-02-05.800A1- | 5.8 | 0.2283 | | 14.2 | 66 | 21 | 42 | 6 | ☺ |
| DC118-02-06.000A1- | 6 | 0.2362 | | 14 | 66 | 21 | 42 | 6 | ☺ |
| DC118-02-06.100A1- | 6.1 | 0.2402 | | 15.9 | 79 | 23 | 47 | 8 | ☺ |
| DC118-02-06.350A1- | 6.35 | 0.2500 | 1/4" | 15.6 | 79 | 23 | 47 | 8 | ☺ |
| DC118-02-06.500A1- | 6.5 | 0.2559 | | 15.5 | 79 | 23 | 47 | 8 | ☺ |
| DC118-02-06.800A1- | 6.8 | 0.2677 | | 17.2 | 79 | 25 | 47 | 8 | ☺ |
| DC118-02-07.000A1- | 7 | 0.2756 | | 17 | 79 | 25 | 47 | 8 | ☺ |
| DC118-02-07.144A1- | 7.144 | 0.2813 | 9/32" | 19.9 | 79 | 28 | 47 | 8 | ☺ |
| DC118-02-07.400A1- | 7.4 | 0.2913 | | 19.6 | 79 | 28 | 47 | 8 | ☺ |
| DC118-02-07.500A1- | 7.5 | 0.2953 | | 19.5 | 79 | 28 | 47 | 8 | ☺ |
| DC118-02-07.938A1- | 7.938 | 0.3125 | 5/16" | 19.1 | 79 | 28 | 47 | 8 | ☺ |
| DC118-02-08.000A1- | 8 | 0.3150 | | 19 | 79 | 28 | 47 | 8 | ☺ |
| DC118-02-08.300A1- | 8.3 | 0.3268 | | 22.8 | 89 | 32 | 50 | 10 | ☺ |
| DC118-02-08.500A1- | 8.5 | 0.3346 | | 22.6 | 89 | 32 | 50 | 10 | ☺ |
| DC118-02-08.731A1- | 8.731 | 0.3437 | 11/32" | 22.3 | 89 | 32 | 50 | 10 | ☺ |
| DC118-02-09.000A1- | 9 | 0.3543 | | 22.1 | 89 | 32 | 50 | 10 | ☺ |
| DC118-02-09.525A1- | 9.525 | 0.3750 | 3/8" | 24.6 | 89 | 35 | 50 | 10 | ☺ |
| DC118-02-09.800A1- | 9.8 | 0.3858 | | 24.3 | 89 | 35 | 50 | 10 | ☺ |
| DC118-02-10.000A1- | 10 | 0.3937 | | 24.1 | 89 | 35 | 50 | 10 | ☺ |
| DC118-02-10.200A1- | 10.2 | 0.4016 | | 29 | 102 | 40 | 52 | 12 | ☺ |
| DC118-02-10.319A1- | 10.319 | 0.4063 | 13/32" | 28.8 | 102 | 40 | 52 | 12 | ☺ |

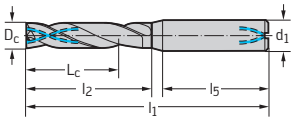
Ordering example for the grade WJ30ET: DC118-02-03.000A1-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

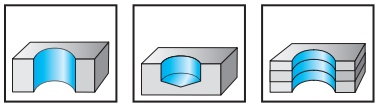
| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | $d_1$ mm | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC118-02-10.500A1- | 10.5 | 0.4134 | | 28.7 | 102 | 40 | 52 | 12 | ● |
| DC118-02-11.000A1- | 11 | 0.4331 | | 28.2 | 102 | 40 | 52 | 12 | ● |
| DC118-02-11.113A1- | 11.113 | 0.4375 | 7/16" | 31.1 | 102 | 43 | 52 | 12 | ● |
| DC118-02-11.500A1- | 11.5 | 0.4528 | | 30.8 | 102 | 43 | 52 | 12 | ● |
| DC118-02-11.800A1- | 11.8 | 0.4646 | | 30.5 | 102 | 43 | 52 | 12 | ● |
| DC118-02-11.906A1- | 11.906 | 0.4687 | 15/32" | 30.4 | 102 | 43 | 52 | 12 | ● |
| DC118-02-12.000A1- | 12 | 0.4724 | | 30.3 | 102 | 43 | 52 | 12 | ● |
| DC118-02-12.500A1- | 12.5 | 0.4921 | | 35.9 | 107 | 49 | 52 | 14 | ● |
| DC118-02-12.700A1- | 12.7 | 0.5000 | 1/2" | 35.7 | 107 | 49 | 52 | 14 | ● |
| DC118-02-13.000A1- | 13 | 0.5118 | | 35.5 | 107 | 49 | 52 | 14 | ● |
| DC118-02-13.500A1- | 13.5 | 0.5315 | | 35.1 | 107 | 49 | 52 | 14 | ● |
| DC118-02-14.000A1- | 14 | 0.5512 | | 34.7 | 107 | 49 | 52 | 14 | ● |
| DC118-02-14.288A1- | 14.288 | 0.5625 | 9/16" | 41.4 | 115 | 56 | 53 | 16 | ● |
| DC118-02-14.500A1- | 14.5 | 0.5709 | | 41.3 | 115 | 56 | 53 | 16 | ● |
| DC118-02-15.000A1- | 15 | 0.5906 | | 40.9 | 115 | 56 | 53 | 16 | ● |
| DC118-02-16.000A1- | 16 | 0.6299 | | 40.2 | 115 | 56 | 53 | 16 | ● |
| DC118-02-17.000A1- | 17 | 0.6693 | | 46.5 | 123 | 63 | 53 | 18 | ● |
| DC118-02-17.500A1- | 17.5 | 0.6890 | | 46.2 | 123 | 63 | 53 | 18 | ● |
| DC118-02-18.000A1- | 18 | 0.7087 | | 45.9 | 123 | 63 | 53 | 18 | ● |
| DC118-02-19.000A1- | 19 | 0.7480 | | 52.3 | 131 | 70 | 55 | 20 | ● |
| DC118-02-20.000A1- | 20 | 0.7874 | | 51.9 | 131 | 70 | 55 | 20 | ● |

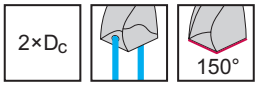
Ordering example for the grade WJ30ET: DC118-02-03.000A1-WJ30ET

# Solid carbide micro pilot drills with coolant-through

## DB131 Supreme



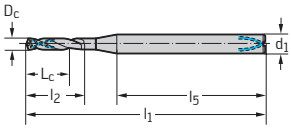





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EL | ●● | ●● | ●● | ●● | ●● | ● | ● |

### Tool




DIN 6535 HA

| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EL |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB131-02-02.000A1- | 2 | 0.0787 | | 7 | 57 | 10 | 42 | 3 | ☺ |
| ★ DB131-02-02.050A1- | 2.05 | 0.0807 | | 7 | 57 | 11 | 42 | 3 | ☺ |
| ★ DB131-02-02.100A1- | 2.1 | 0.0827 | | 7 | 57 | 11 | 42 | 3 | ☺ |
| ★ DB131-02-02.150A1- | 2.15 | 0.0846 | | 7 | 57 | 11 | 42 | 3 | ☺ |
| ★ DB131-02-02.200A1- | 2.2 | 0.0866 | | 7 | 57 | 11 | 42 | 3 | ☺ |
| ★ DB131-02-02.250A1- | 2.25 | 0.0886 | | 8 | 59 | 12 | 43 | 3 | ☺ |
| ★ DB131-02-02.300A1- | 2.3 | 0.0906 | | 8 | 59 | 12 | 43 | 3 | ☺ |
| ★ DB131-02-02.350A1- | 2.35 | 0.0925 | | 8 | 59 | 12 | 43 | 3 | ☺ |
| ★ DB131-02-02.381A1- | 2.381 | 0.0937 | 3/32" | 8 | 59 | 12 | 43 | 3 | ☺ |
| ★ DB131-02-02.400A1- | 2.4 | 0.0945 | | 8 | 59 | 12 | 43 | 3 | ☺ |
| ★ DB131-02-02.450A1- | 2.45 | 0.0965 | | 9 | 59 | 13 | 42 | 3 | ☺ |
| ★ DB131-02-02.500A1- | 2.5 | 0.0984 | | 9 | 59 | 13 | 42 | 3 | ☺ |
| ★ DB131-02-02.550A1- | 2.55 | 0.1004 | | 9 | 62 | 13 | 45 | 3 | ☺ |
| ★ DB131-02-02.600A1- | 2.6 | 0.1024 | | 9 | 62 | 13 | 45 | 3 | ☺ |
| ★ DB131-02-02.650A1- | 2.65 | 0.1043 | | 9 | 62 | 14 | 45 | 3 | ☺ |
| ★ DB131-02-02.700A1- | 2.7 | 0.1063 | | 9 | 62 | 14 | 45 | 3 | ☺ |
| ★ DB131-02-02.750A1- | 2.75 | 0.1083 | | 9 | 62 | 14 | 45 | 3 | ☺ |
| ★ DB131-02-02.778A1- | 2.778 | 0.1094 | 7/64" | 9 | 62 | 14 | 45 | 3 | ☺ |
| ★ DB131-02-02.800A1- | 2.8 | 0.1102 | | 9 | 62 | 14 | 45 | 3 | ☺ |
| ★ DB131-02-02.850A1- | 2.85 | 0.1122 | | 10 | 62 | 15 | 44 | 3 | ☺ |
| ★ DB131-02-02.900A1- | 2.9 | 0.1142 | | 10 | 62 | 15 | 44 | 3 | ☺ |
| ★ DB131-02-02.950A1- | 2.95 | 0.1161 | | 10 | 62 | 15 | 44 | 3 | ☺ |

Ordering example for the grade WJ30EL: DB131-02-02.000A1-WJ30EL

**WALTER SELECT**

●● Primary application ● Other application

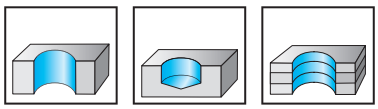
Best tool for ➔ Good = ☺ ➔ Average = 😐 ➔ Poor = ☹ machining conditions

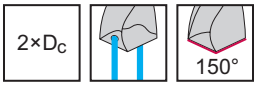
# Solid carbide pilot drills with coolant-through

## A6181TFT

## XD Pilot

– Special diameter tolerance for XD technology

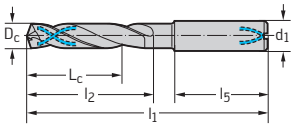





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TFT | ●● | ●● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

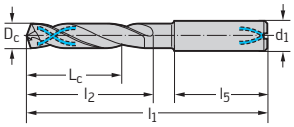
| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6181TFT-3 | 3 | 0.1181 | | 14 | 66 | 20 | 36 | 6 |
| A6181TFT-1/8IN | 3.175 | 0.1250 | 1/8" | 14 | 66 | 20 | 36 | 6 |
| A6181TFT-3.5 | 3.5 | 0.1378 | | 14 | 66 | 20 | 36 | 6 |
| A6181TFT-9/64IN | 3.572 | 0.1406 | 9/64" | 14 | 66 | 20 | 36 | 6 |
| A6181TFT-5/32IN | 3.969 | 0.1563 | 5/32" | 16 | 74 | 24 | 36 | 6 |
| A6181TFT-4 | 4 | 0.1575 | | 16 | 74 | 24 | 36 | 6 |
| A6181TFT-4.5 | 4.5 | 0.1772 | | 16 | 74 | 24 | 36 | 6 |
| A6181TFT-3/16IN | 4.763 | 0.1875 | 3/16" | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-4.8 | 4.8 | 0.1890 | | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-5 | 5 | 0.1969 | | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-5.5 | 5.5 | 0.2165 | | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-7/32IN | 5.556 | 0.2187 | 7/32" | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-5.8 | 5.8 | 0.2283 | | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-6 | 6 | 0.2362 | | 19 | 82 | 28 | 36 | 6 |
| A6181TFT-6.1 | 6.1 | 0.2402 | | 23 | 91 | 34 | 36 | 8 |
| A6181TFT-1/4IN | 6.35 | 0.2500 | 1/4" | 23 | 91 | 34 | 36 | 8 |
| A6181TFT-6.5 | 6.5 | 0.2559 | | 23 | 91 | 34 | 36 | 8 |
| A6181TFT-6.8 | 6.8 | 0.2677 | | 23 | 91 | 34 | 36 | 8 |
| A6181TFT-7 | 7 | 0.2756 | | 23 | 91 | 34 | 36 | 8 |
| A6181TFT-9/32IN | 7.144 | 0.2813 | 9/32" | 29 | 91 | 41 | 36 | 8 |
| A6181TFT-7.4 | 7.4 | 0.2913 | | 29 | 91 | 41 | 36 | 8 |
| A6181TFT-7.5 | 7.5 | 0.2953 | | 29 | 91 | 41 | 36 | 8 |
| A6181TFT-5/16IN | 7.938 | 0.3125 | 5/16" | 29 | 91 | 41 | 36 | 8 |
| A6181TFT-8 | 8 | 0.3150 | | 29 | 91 | 41 | 36 | 8 |
| A6181TFT-8.3 | 8.3 | 0.3268 | | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-8.5 | 8.5 | 0.3346 | | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-11/32IN | 8.731 | 0.3437 | 11/32" | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-9 | 9 | 0.3543 | | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-3/8IN | 9.525 | 0.3750 | 3/8" | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-9.8 | 9.8 | 0.3858 | | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-10 | 10 | 0.3937 | | 32 | 103 | 47 | 40 | 10 |
| A6181TFT-10.2 | 10.2 | 0.4016 | | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-13/32IN | 10.319 | 0.4063 | 13/32" | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-11 | 11 | 0.4331 | | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-7/16IN | 11.113 | 0.4375 | 7/16" | 37 | 118 | 55 | 45 | 12 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

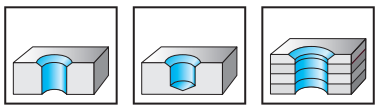


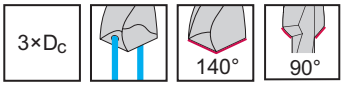

DIN 6535 HA

| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6181TFT-11.5 | 11.5 | 0.4528 | | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-11.8 | 11.8 | 0.4646 | | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-15/32IN | 11.906 | 0.4687 | 15/32" | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-12 | 12 | 0.4724 | | 37 | 118 | 55 | 45 | 12 |
| A6181TFT-1/2IN | 12.7 | 0.5000 | 1/2" | 46 | 124 | 60 | 45 | 14 |
| A6181TFT-13 | 13 | 0.5118 | | 46 | 124 | 60 | 45 | 14 |
| A6181TFT-14 | 14 | 0.5512 | | 46 | 124 | 60 | 45 | 14 |
| A6181TFT-9/16IN | 14.288 | 0.5625 | 9/16" | 49 | 133 | 65 | 48 | 16 |
| A6181TFT-15 | 15 | 0.5906 | | 49 | 133 | 65 | 48 | 16 |
| A6181TFT-16 | 16 | 0.6299 | | 49 | 133 | 65 | 48 | 16 |

# Solid carbide drills with coolant-through
## DC260 Advance
## X-treme Evo

– Step length in accordance with DIN 8378
– For threaded core hole drilling

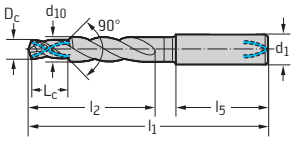





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | ● | ●● | ●● | ●● | ● | ● |

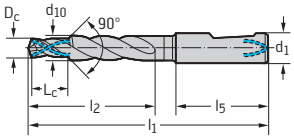
B1

## Tool




DIN 6535 HA

| Designation | For threads | $D_c$ mm | $D_c$ in | $d_{10}$ mm | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|---|
| DC260-03-03.300A1- | M 4 | 3.3 | 0.1299 | 5 | 11 | 66 | 28 | 36 | 6 | ☺ |
| DC260-03-04.200A1- | M 5 | 4.2 | 0.1654 | 6 | 14 | 66 | 28 | 36 | 6 | ☺ |
| DC260-03-05.000A1- | M 6 | 5 | 0.1969 | 8 | 17 | 79 | 41 | 36 | 8 | ☺ |
| DC260-03-06.800A1- | M 8 | 6.8 | 0.2677 | 10 | 21 | 89 | 47 | 40 | 10 | ☺ |
| DC260-03-08.500A1- | M 10 | 8.5 | 0.3346 | 12 | 26 | 102 | 55 | 45 | 12 | ☺ |
| DC260-03-10.200A1- | M 12 | 10.2 | 0.4016 | 14 | 30 | 107 | 60 | 45 | 14 | ☺ |
| DC260-03-12.000A1- | M 14 | 12 | 0.4724 | 16 | 35 | 115 | 65 | 48 | 16 | ☺ |
| DC260-03-14.000A1- | M 16 | 14 | 0.5512 | 18 | 39 | 123 | 73 | 48 | 18 | ☺ |




DIN 6535 HE

| Designation | For threads | $D_c$ mm | $D_c$ in | $d_{10}$ mm | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|---|
| DC260-03-03.300F1- | M 4 | 3.3 | 0.1299 | 5 | 11 | 66 | 28 | 36 | 6 | ☺ |
| DC260-03-04.200F1- | M 5 | 4.2 | 0.1654 | 6 | 14 | 66 | 28 | 36 | 6 | ☺ |
| DC260-03-05.000F1- | M 6 | 5 | 0.1969 | 8 | 17 | 79 | 41 | 36 | 8 | ☺ |
| DC260-03-06.800F1- | M 8 | 6.8 | 0.2677 | 10 | 21 | 89 | 47 | 40 | 10 | ☺ |
| DC260-03-08.500F1- | M 10 | 8.5 | 0.3346 | 12 | 26 | 102 | 55 | 45 | 12 | ☺ |
| DC260-03-10.200F1- | M 12 | 10.2 | 0.4016 | 14 | 30 | 107 | 60 | 45 | 14 | ☺ |
| DC260-03-12.000F1- | M 14 | 12 | 0.4724 | 16 | 35 | 115 | 65 | 48 | 16 | ☺ |
| DC260-03-14.000F1- | M 16 | 14 | 0.5512 | 18 | 39 | 123 | 73 | 48 | 18 | ☺ |

Ordering example for the grade WJ30ET: DC260-03-03.300A1-WJ30ET

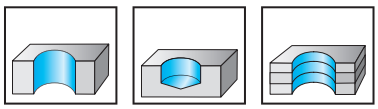
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide twist drill
# DC175 Supreme

– Walter Precision cooling

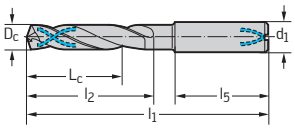


3×$D_c$ | DIN 6537 K | 140°

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

B1

## Tool




DIN 6535 HA

| Designation | p7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-03-03.000A1- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.100A1- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.175A1- | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.200A1- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.250A1- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.300A1- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.400A1- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.500A1- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.572A1- | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.600A1- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.700A1- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | |
| DC175-03-03.800A1- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-03.900A1- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-03.969A1- | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.000A1- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.100A1- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.200A1- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.300A1- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.366A1- | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.400A1- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.500A1- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.600A1- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.650A1- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.700A1- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | |
| DC175-03-04.763A1- | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-04.800A1- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-04.900A1- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.000A1- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.100A1- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.159A1- | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.200A1- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.300A1- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.400A1- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.500A1- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | |
| DC175-03-05.550A1- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | |

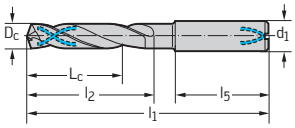
Ordering example for the grade WJ30RZ: DC175-03-03.000A1-WJ30RZ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

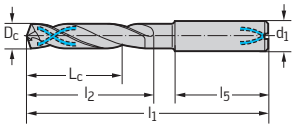



DIN 6535 HA

| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-03-05.556A1- | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-05.600A1- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-05.700A1- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-05.800A1- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-05.900A1- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-05.953A1- | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-06.000A1- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC175-03-06.100A1- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.200A1- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.300A1- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.350A1- | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.400A1- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.500A1- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.600A1- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.700A1- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.747A1- | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.800A1- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-06.900A1- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-07.000A1- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC175-03-07.100A1- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.144A1- | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.200A1- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.300A1- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.400A1- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.500A1- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.541A1- | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.600A1- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.700A1- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.800A1- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.900A1- | 7.9 | 0.311 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-07.938A1- | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-08.000A1- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC175-03-08.100A1- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.200A1- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.300A1- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.334A1- | 8.334 | 0.3281 | 21/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.400A1- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.500A1- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.600A1- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.700A1- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.731A1- | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.800A1- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-08.900A1- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-09.000A1- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-09.100A1- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-09.128A1- | 9.128 | 0.3594 | 23/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-09.200A1- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC175-03-09.300A1- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | ● |

Ordering example for the grade WJ30RZ: DC175-03-03.000A1-WJ30RZ

## Tool



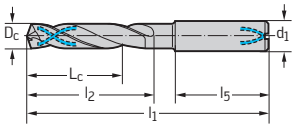

DIN 6535 HA

B1

| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-03-09.400A1- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.500A1- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.525A1- | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.600A1- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.700A1- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.800A1- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.900A1- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-09.922A1- | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-10.000A1- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | |
| DC175-03-10.100A1- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.200A1- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.300A1- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.319A1- | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.400A1- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.500A1- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.600A1- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.700A1- | 10.7 | 0.4213 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.716A1- | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.800A1- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-10.900A1- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.000A1- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.100A1- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.113A1- | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.200A1- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.300A1- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.400A1- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.500A1- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.509A1- | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.600A1- | 11.6 | 0.4567 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.700A1- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.800A1- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-11.900A1- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-12.000A1- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | |
| DC175-03-12.100A1- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.200A1- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.300A1- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.303A1- | 12.303 | 0.4844 | 31/64" | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.500A1- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.600A1- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.700A1- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-12.900A1- | 12.9 | 0.5079 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-13.000A1- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-13.100A1- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-13.300A1- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-13.494A1- | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-13.500A1- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-13.800A1- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | |
| DC175-03-14.000A1- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | |

Ordering example for the grade WJ30RZ: DC175-03-03.000A1-WJ30RZ

## Tool

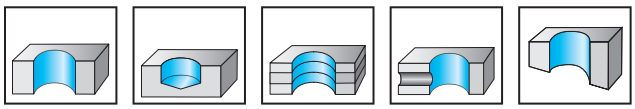



DIN 6535 HA

| Designation | p7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-03-14.200A1- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-14.288A1- | 14.288 | 0.5625 | 9/16“ | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-14.500A1- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-14.750A1- | 14.75 | 0.5807 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-15.000A1- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-15.100A1- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-15.200A1- | 15.2 | 0.5984 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-15.300A1- | 15.3 | 0.6024 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-15.500A1- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-15.800A1- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-16.000A1- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC175-03-16.500A1- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC175-03-17.500A1- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC175-03-18.000A1- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC175-03-18.500A1- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC175-03-19.000A1- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC175-03-19.500A1- | 19.5 | 0.7677 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC175-03-20.000A1- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |

Ordering example for the grade WJ30RZ: DC175-03-03.000A1-WJ30RZ

# Solid carbide drills with coolant-through
# DC170 Supreme

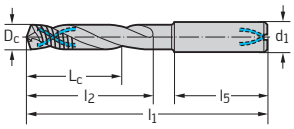


3×$D_c$ | DIN 6537 K | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-03-03.000A1- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.100A1- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.175A1- | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.200A1- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.300A1- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.400A1- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.500A1- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.572A1- | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.600A1- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.700A1- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC170-03-03.800A1- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-03.900A1- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-03.969A1- | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.000A1- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.100A1- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.200A1- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.300A1- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.366A1- | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.400A1- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.500A1- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.600A1- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.650A1- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.700A1- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC170-03-04.763A1- | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-04.800A1- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-04.900A1- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.000A1- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.100A1- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.159A1- | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.200A1- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.300A1- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.400A1- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.500A1- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.550A1- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC170-03-05.556A1- | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 | ☺ |

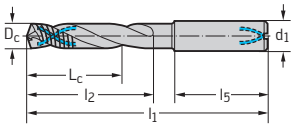
Ordering example for the grade WJ30EJ: DC170-03-03.000A1-WJ30EJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

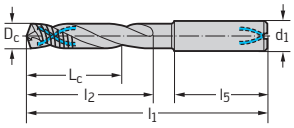



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-03-05.600A1- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC170-03-05.700A1- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC170-03-05.800A1- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC170-03-05.900A1- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC170-03-05.953A1- | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 | ● |
| DC170-03-06.000A1- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC170-03-06.100A1- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.200A1- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.300A1- | 6.3 | 0.248 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.350A1- | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.400A1- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.500A1- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.600A1- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.700A1- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.747A1- | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.800A1- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-06.900A1- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-07.000A1- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC170-03-07.100A1- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.144A1- | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.200A1- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.300A1- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.400A1- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.500A1- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.541A1- | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.800A1- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.900A1- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-07.938A1- | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-08.000A1- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC170-03-08.100A1- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.200A1- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.300A1- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.500A1- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.600A1- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.700A1- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.731A1- | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-08.800A1- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.000A1- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.128A1- | 9.128 | 0.3594 | 23/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.200A1- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.300A1- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.500A1- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.525A1- | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.600A1- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.700A1- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.800A1- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-09.922A1- | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC170-03-10.000A1- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | ● |

Ordering example for the grade WJ30EJ: DC170-03-03.000A1-WJ30EJ

## Tool




DIN 6535 HA

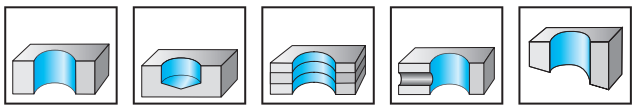
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-03-10.100A1- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.200A1- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.300A1- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.319A1- | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.400A1- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.500A1- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.716A1- | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-10.800A1- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.000A1- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.100A1- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.113A1- | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.200A1- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.500A1- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.509A1- | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.700A1- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-11.800A1- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-12.000A1- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | |
| DC170-03-12.100A1- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-12.200A1- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-12.300A1- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-12.500A1- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-12.600A1- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-12.700A1- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-13.000A1- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-13.300A1- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-13.494A1- | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-13.500A1- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-14.000A1- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | |
| DC170-03-14.288A1- | 14.288 | 0.5625 | 9/16" | 45 | 115 | 65 | 48 | 16 | |
| DC170-03-14.500A1- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | |
| DC170-03-15.000A1- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | |
| DC170-03-15.875A1- | 15.875 | 0.6250 | 5/8" | 45 | 115 | 65 | 48 | 16 | |
| DC170-03-16.000A1- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | |
| DC170-03-16.500A1- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | |
| DC170-03-17.000A1- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | |
| DC170-03-17.500A1- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | |
| DC170-03-18.000A1- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | |
| DC170-03-19.050A1- | 19.05 | 0.7500 | 3/4" | 55 | 131 | 79 | 50 | 20 | |
| DC170-03-20.000A1- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | |

Ordering example for the grade WJ30EJ: DC170-03-03.000A1-WJ30EJ

# Solid carbide drills with coolant-through

## DC160 Advance

## X-treme Evo

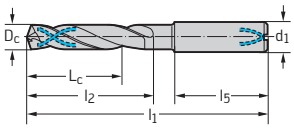


3×$D_c$ | DIN 6537 K | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | ● | ●● | ●● | ●● | ● | ● |

B1

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-03.000A1- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.100A1- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.175A1- | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.200A1- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.250A1- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.300A1- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.400A1- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.500A1- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.572A1- | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.600A1- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.650A1- | 3.65 | 0.1437 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.700A1- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.800A1- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-03.900A1- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-03.969A1- | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.000A1- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.100A1- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.200A1- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.300A1- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.366A1- | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.400A1- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.500A1- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.600A1- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.650A1- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.700A1- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.763A1- | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-04.800A1- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-04.900A1- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.000A1- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.100A1- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.159A1- | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.200A1- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.300A1- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.400A1- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.500A1- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ☺ |

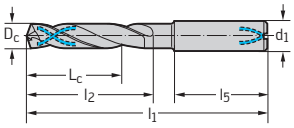
Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



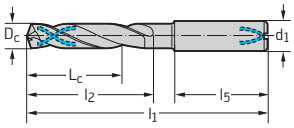

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-05.550A1- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.556A1- | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.600A1- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.700A1- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.800A1- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.900A1- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.953A1- | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-06.000A1- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-06.100A1- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.200A1- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.300A1- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.350A1- | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.400A1- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.500A1- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.600A1- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.700A1- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.747A1- | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.800A1- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.900A1- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.000A1- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.100A1- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.144A1- | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.200A1- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.300A1- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.400A1- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.500A1- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.541A1- | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.550A1- | 7.55 | 0.2972 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.600A1- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.700A1- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.800A1- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.900A1- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.938A1- | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.000A1- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.100A1- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.200A1- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.300A1- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.334A1- | 8.334 | 0.3281 | 21/64" | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.400A1- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.500A1- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.600A1- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.700A1- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.731A1- | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.800A1- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.900A1- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.000A1- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.100A1- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.128A1- | 9.128 | 0.3594 | 23/64" | 35 | 89 | 47 | 40 | 10 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

## Tool

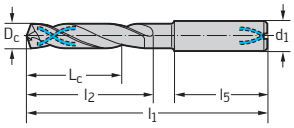



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-09.200A1- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.300A1- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.400A1- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.500A1- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.525A1- | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.550A1- | 9.55 | 0.3760 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.600A1- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.700A1- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.800A1- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.900A1- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.922A1- | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-10.000A1- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-10.100A1- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.200A1- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.300A1- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.319A1- | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.400A1- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.500A1- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.600A1- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.700A1- | 10.7 | 0.4213 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.716A1- | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.800A1- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.900A1- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.000A1- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.100A1- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.113A1- | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.200A1- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.300A1- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.400A1- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.500A1- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.509A1- | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.550A1- | 11.55 | 0.4547 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.600A1- | 11.6 | 0.4567 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.700A1- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.800A1- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.900A1- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.906A1- | 11.906 | 0.4687 | 15/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.000A1- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.100A1- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.200A1- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.250A1- | 12.25 | 0.4823 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.300A1- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.303A1- | 12.303 | 0.4844 | 31/64" | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.400A1- | 12.4 | 0.4882 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.500A1- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.600A1- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.700A1- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.750A1- | 12.75 | 0.5020 | | 43 | 107 | 60 | 45 | 14 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

## Tool



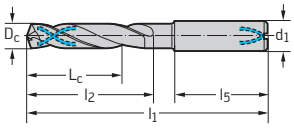

DIN 6535 HA

B1

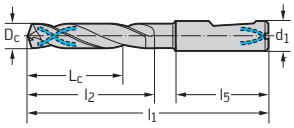
| Designation | m7 mm | m7 in | $D_{c\ inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-12.800A1- | 12.8 | 0.5039 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-12.900A1- | 12.9 | 0.5079 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.000A1- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.100A1- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.200A1- | 13.2 | 0.5197 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.300A1- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.400A1- | 13.4 | 0.5276 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.494A1- | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.500A1- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.600A1- | 13.6 | 0.5354 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.700A1- | 13.7 | 0.5394 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.800A1- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.900A1- | 13.9 | 0.5472 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-14.000A1- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-14.100A1- | 14.1 | 0.5551 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.200A1- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.288A1- | 14.288 | 0.5625 | 9/16" | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.300A1- | 14.3 | 0.5630 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.400A1- | 14.4 | 0.5669 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.500A1- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.600A1- | 14.6 | 0.5748 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.700A1- | 14.7 | 0.5787 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.800A1- | 14.8 | 0.5827 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.000A1- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.100A1- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.200A1- | 15.2 | 0.5984 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.300A1- | 15.3 | 0.6024 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.500A1- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.600A1- | 15.6 | 0.6142 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.700A1- | 15.7 | 0.6181 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.800A1- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.875A1- | 15.875 | 0.6250 | 5/8" | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.900A1- | 15.9 | 0.6260 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-16.000A1- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-16.100A1- | 16.1 | 0.6339 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.200A1- | 16.2 | 0.6378 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.300A1- | 16.3 | 0.6417 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.400A1- | 16.4 | 0.6457 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.500A1- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.600A1- | 16.6 | 0.6535 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.700A1- | 16.7 | 0.6575 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.750A1- | 16.75 | 0.6594 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.800A1- | 16.8 | 0.6614 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.000A1- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.200A1- | 17.2 | 0.6772 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.300A1- | 17.3 | 0.6811 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.500A1- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.600A1- | 17.6 | 0.6929 | | 51 | 123 | 73 | 48 | 18 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

## Tool




DIN 6535 HA

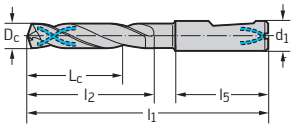



DIN 6535 HE

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-17.700A1- | 17.7 | 0.6969 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.800A1- | 17.8 | 0.7008 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-18.000A1- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-18.200A1- | 18.2 | 0.7165 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.500A1- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.700A1- | 18.7 | 0.7362 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.800A1- | 18.8 | 0.7402 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.000A1- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.050A1- | 19.05 | 0.7500 | 3/4" | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.500A1- | 19.5 | 0.7677 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.700A1- | 19.7 | 0.7756 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.800A1- | 19.8 | 0.7795 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-20.000A1- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-03.000F1- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.100F1- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.200F1- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.250F1- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.300F1- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.400F1- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.500F1- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.600F1- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.650F1- | 3.65 | 0.1437 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.700F1- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.800F1- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-03.900F1- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.000F1- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.100F1- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.200F1- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.300F1- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.400F1- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.500F1- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.600F1- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.650F1- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.700F1- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.800F1- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-04.900F1- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.000F1- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.100F1- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.200F1- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.300F1- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.400F1- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.500F1- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.550F1- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.600F1- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.700F1- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.800F1- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.900F1- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-06.000F1- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

## Tool



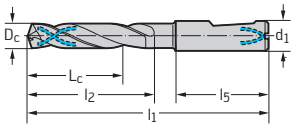

DIN 6535 HE

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-06.100F1- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.200F1- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.300F1- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.400F1- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.500F1- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.600F1- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.700F1- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.800F1- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.900F1- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.000F1- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.100F1- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.200F1- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.300F1- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.400F1- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.500F1- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.550F1- | 7.55 | 0.2972 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.600F1- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.700F1- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.800F1- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.900F1- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.000F1- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.100F1- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.200F1- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.300F1- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.400F1- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.500F1- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.600F1- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.700F1- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.800F1- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.900F1- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.000F1- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.100F1- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.200F1- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.300F1- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.400F1- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.500F1- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.550F1- | 9.55 | 0.3760 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.600F1- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.700F1- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.800F1- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.900F1- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-10.000F1- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-10.100F1- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.200F1- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.300F1- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.400F1- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.500F1- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.600F1- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

## Tool

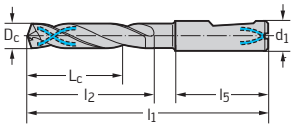



DIN 6535 HE

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-10.700F1- | 10.7 | 0.4213 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.800F1- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.900F1- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.000F1- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.100F1- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.200F1- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.300F1- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.400F1- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.500F1- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.550F1- | 11.55 | 0.4547 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.600F1- | 11.6 | 0.4567 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.700F1- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.800F1- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.900F1- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.000F1- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.100F1- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.200F1- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.250F1- | 12.25 | 0.4823 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.300F1- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.400F1- | 12.4 | 0.4882 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.500F1- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.600F1- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.700F1- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.750F1- | 12.75 | 0.5020 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.800F1- | 12.8 | 0.5039 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.900F1- | 12.9 | 0.5079 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.000F1- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.100F1- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.200F1- | 13.2 | 0.5197 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.300F1- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.400F1- | 13.4 | 0.5276 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.500F1- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.600F1- | 13.6 | 0.5354 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.700F1- | 13.7 | 0.5394 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.800F1- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.900F1- | 13.9 | 0.5472 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-14.000F1- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-14.100F1- | 14.1 | 0.5551 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.200F1- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.300F1- | 14.3 | 0.5630 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.400F1- | 14.4 | 0.5669 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.500F1- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.600F1- | 14.6 | 0.5748 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.700F1- | 14.7 | 0.5787 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.750F1- | 14.75 | 0.5807 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.800F1- | 14.8 | 0.5827 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.000F1- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.100F1- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

## Tool

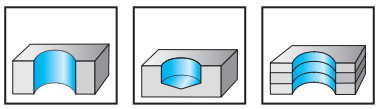



DIN 6535 HE

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-15.200F1- | 15.2 | 0.5984 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.300F1- | 15.3 | 0.6024 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.500F1- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.600F1- | 15.6 | 0.6142 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.700F1- | 15.7 | 0.6181 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.800F1- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.900F1- | 15.9 | 0.6260 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-16.000F1- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-16.100F1- | 16.1 | 0.6339 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.200F1- | 16.2 | 0.6378 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.300F1- | 16.3 | 0.6417 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.400F1- | 16.4 | 0.6457 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.500F1- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.600F1- | 16.6 | 0.6535 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.700F1- | 16.7 | 0.6575 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.750F1- | 16.75 | 0.6594 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-16.800F1- | 16.8 | 0.6614 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.000F1- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.200F1- | 17.2 | 0.6772 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.300F1- | 17.3 | 0.6811 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.500F1- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.600F1- | 17.6 | 0.6929 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.700F1- | 17.7 | 0.6969 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-17.800F1- | 17.8 | 0.7008 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-18.000F1- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-18.200F1- | 18.2 | 0.7165 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.500F1- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.700F1- | 18.7 | 0.7362 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.800F1- | 18.8 | 0.7402 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.000F1- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.500F1- | 19.5 | 0.7677 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.700F1- | 19.7 | 0.7756 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.800F1- | 19.8 | 0.7795 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-20.000F1- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A1-WJ30ET

# Solid carbide drills with coolant-through
# DC150 Perform

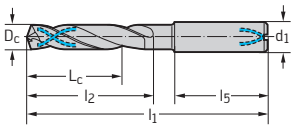


3×$D_c$ | DIN 6537 K | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30RE | ●● | ● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-03.000A1- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.100A1- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.175A1- | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.200A1- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.250A1- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.300A1- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.400A1- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.500A1- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.572A1- | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.600A1- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.650A1- | 3.65 | 0.1437 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.700A1- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.800A1- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-03.900A1- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-03.969A1- | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.000A1- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.100A1- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.200A1- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.300A1- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.366A1- | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.400A1- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.500A1- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.600A1- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.650A1- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.700A1- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.763A1- | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-04.800A1- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-04.900A1- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.000A1- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.100A1- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.159A1- | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.200A1- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.300A1- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.400A1- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.500A1- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ☺ |

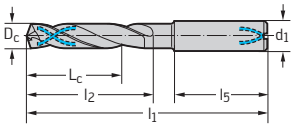
Ordering example for the grade WJ30RE: DC150-03-03.000A1-WJ30RE

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



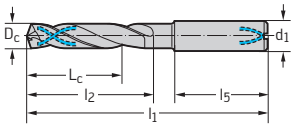

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-05.550A1- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.556A1- | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.600A1- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.700A1- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.800A1- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.900A1- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.953A1- | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-06.000A1- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-06.100A1- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.200A1- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.300A1- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.350A1- | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.400A1- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.500A1- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.600A1- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.700A1- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.747A1- | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.800A1- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.900A1- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-07.000A1- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-07.100A1- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.144A1- | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.200A1- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.300A1- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.400A1- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.500A1- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.541A1- | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.600A1- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.700A1- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.800A1- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.900A1- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.938A1- | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-08.000A1- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-08.100A1- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.200A1- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.300A1- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.334A1- | 8.334 | 0.3281 | 21/64" | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.400A1- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.500A1- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.600A1- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.700A1- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.731A1- | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.800A1- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.900A1- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.000A1- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.100A1- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.128A1- | 9.128 | 0.3594 | 23/64" | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.200A1- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | |

Ordering example for the grade WJ30RE: DC150-03-03.000A1-WJ30RE

## Tool

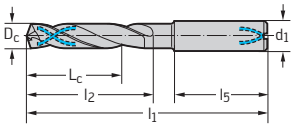



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-09.300A1- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.400A1- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.500A1- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.525A1- | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.600A1- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.700A1- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.800A1- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.900A1- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.922A1- | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-10.000A1- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-10.100A1- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.200A1- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.300A1- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.319A1- | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.400A1- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.500A1- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.600A1- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.700A1- | 10.7 | 0.4213 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.716A1- | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.800A1- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.900A1- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.000A1- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.100A1- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.113A1- | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.200A1- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.300A1- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.400A1- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.500A1- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.509A1- | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.600A1- | 11.6 | 0.4567 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.700A1- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.800A1- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.900A1- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.906A1- | 11.906 | 0.4687 | 15/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-12.000A1- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-12.100A1- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.200A1- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.300A1- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.303A1- | 12.303 | 0.4844 | 31/64" | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.500A1- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.600A1- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.700A1- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.800A1- | 12.8 | 0.5039 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.900A1- | 12.9 | 0.5079 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.000A1- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.100A1- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.200A1- | 13.2 | 0.5197 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.300A1- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | ● |

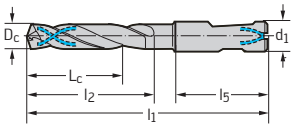
Ordering example for the grade WJ30RE: DC150-03-03.000A1-WJ30RE

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-13.494A1- | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.500A1- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.800A1- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-14.000A1- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-14.100A1- | 14.1 | 0.5551 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-14.200A1- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-14.288A1- | 14.288 | 0.5625 | 9/16" | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-14.500A1- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-14.600A1- | 14.6 | 0.5748 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-14.700A1- | 14.7 | 0.5787 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.000A1- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.100A1- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.300A1- | 15.3 | 0.6024 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.500A1- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.700A1- | 15.7 | 0.6181 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.800A1- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.875A1- | 15.875 | 0.6250 | 5/8" | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-16.000A1- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-16.300A1- | 16.3 | 0.6417 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-16.500A1- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-16.700A1- | 16.7 | 0.6575 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-17.000A1- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-17.500A1- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-18.000A1- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-18.500A1- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | |
| DC150-03-19.000A1- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | |
| DC150-03-19.050A1- | 19.05 | 0.7500 | 3/4" | 55 | 131 | 79 | 50 | 20 | |
| DC150-03-20.000A1- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | |

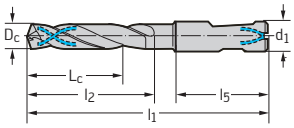



DIN 6535 HE, turned 180° DIN 6535 HB

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-03.000D1- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | |
| DC150-03-03.300D1- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | |
| DC150-03-03.400D1- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | |
| DC150-03-03.500D1- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | |
| DC150-03-03.700D1- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | |
| DC150-03-03.800D1- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | |
| DC150-03-04.000D1- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | |
| DC150-03-04.200D1- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | |
| DC150-03-04.300D1- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | |
| DC150-03-04.500D1- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | |
| DC150-03-04.800D1- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.000D1- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.100D1- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.300D1- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.500D1- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-06.000D1- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-06.500D1- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.700D1- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.800D1- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-07.000D1- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |

Ordering example for the grade WJ30RE: DC150-03-03.000A1-WJ30RE

## Tool




DIN 6535 HE, turned 180° DIN 6535 HB

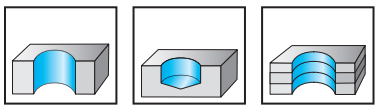
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-07.500D1- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC150-03-07.800D1- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC150-03-08.000D1- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | ● |
| DC150-03-08.500D1- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-08.600D1- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-08.800D1- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.000D1- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-10.000D1- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-10.200D1- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.300D1- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.500D1- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.800D1- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.000D1- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.800D1- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-12.000D1- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-12.200D1- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.500D1- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.000D1- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-14.000D1- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-15.000D1- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-15.500D1- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-16.000D1- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-16.500D1- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-17.000D1- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-17.500D1- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-18.000D1- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-19.000D1- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC150-03-20.000D1- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |

Ordering example for the grade WJ30RE: DC150-03-03.000A1-WJ30RE

# Solid carbide drills with coolant-through

## A3289DPL

## X-treme Plus

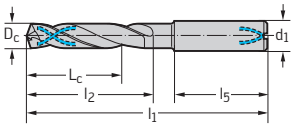


3×$D_c$ | DIN 6537 K | 140°

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

B1

### Tool




DIN 6535 HA

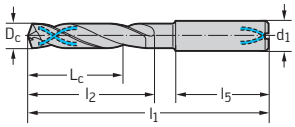
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3289DPL-3 | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.1 | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-1/8IN | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.2 | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.3 | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.4 | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.5 | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-9/64IN | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.6 | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.7 | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 |
| A3289DPL-3.8 | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-3.9 | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-5/32IN | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4 | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.1 | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.2 | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.3 | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-11/64IN | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.4 | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.5 | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.6 | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.65 | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-4.7 | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 |
| A3289DPL-3/16IN | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-4.8 | 4.8 | 0.189 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-4.9 | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5 | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.1 | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-13/64IN | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.2 | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.3 | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.4 | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.5 | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.55 | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-7/32IN | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

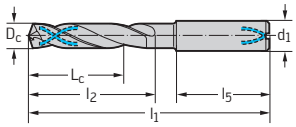
## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3289DPL-5.6 | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.7 | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.8 | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-5.9 | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-15/64IN | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-6 | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 |
| A3289DPL-6.1 | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.2 | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.3 | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-1/4IN | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.4 | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.5 | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.6 | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.7 | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-17/64IN | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.8 | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-6.9 | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-7 | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 |
| A3289DPL-7.1 | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-9/32IN | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-7.2 | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-7.3 | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-7.4 | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-7.5 | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-19/64IN | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-7.8 | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-7.9 | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-5/16IN | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-8 | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 |
| A3289DPL-8.1 | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.2 | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.3 | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-21/64IN | 8.334 | 0.3281 | 21/64" | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.4 | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.5 | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.6 | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.7 | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-11/32IN | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-8.8 | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9 | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-23/64IN | 9.128 | 0.3594 | 23/64" | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9.2 | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9.3 | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9.5 | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-3/8IN | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9.6 | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9.7 | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-9.8 | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 |

## Tool



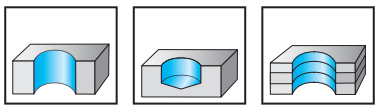

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3289DPL-25/64IN | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-10 | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 |
| A3289DPL-10.1 | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-10.2 | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-10.3 | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-13/32IN | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-10.4 | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-10.5 | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-27/64IN | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-10.8 | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-11 | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-11.1 | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-7/16IN | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-11.2 | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-11.5 | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-29/64IN | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-11.7 | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-11.8 | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-15/32IN | 11.906 | 0.4687 | 15/32" | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-12 | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 |
| A3289DPL-12.1 | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-12.2 | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-12.3 | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-31/64IN | 12.303 | 0.4844 | 31/64" | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-12.5 | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-12.6 | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-1/2IN | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-13 | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-13.3 | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-17/32IN | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-13.5 | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-14 | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 |
| A3289DPL-9/16IN | 14.288 | 0.5625 | 9/16" | 45 | 115 | 65 | 48 | 16 |
| A3289DPL-14.5 | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 |
| A3289DPL-15 | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 |
| A3289DPL-15.5 | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 |
| A3289DPL-5/8IN | 15.875 | 0.6250 | 5/8" | 45 | 115 | 65 | 48 | 16 |
| A3289DPL-16 | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 |
| A3289DPL-16.5 | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 |
| A3289DPL-17 | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 |
| A3289DPL-17.5 | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 |
| A3289DPL-18 | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 |
| A3289DPL-3/4IN | 19.05 | 0.7500 | 3/4" | 55 | 131 | 79 | 50 | 20 |
| A3289DPL-20 | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 |

# Solid carbide twist drill
# DC175 Supreme

– Walter Precision cooling

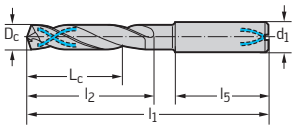


5×$D_c$ | DIN 6537 L | 140°

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

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-05-03.000A1- | 3 | 0.1181 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.100A1- | 3.1 | 0.1220 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.175A1- | 3.175 | 0.1250 | 1/8" | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.200A1- | 3.2 | 0.1260 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.250A1- | 3.25 | 0.1280 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.300A1- | 3.3 | 0.1299 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.400A1- | 3.4 | 0.1339 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.500A1- | 3.5 | 0.1378 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.572A1- | 3.572 | 0.1406 | 9/64" | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.600A1- | 3.6 | 0.1417 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.700A1- | 3.7 | 0.1457 | | 19 | 66 | 24 | 36 | 6 | ☺ |
| DC175-05-03.800A1- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-03.900A1- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-03.969A1- | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.000A1- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.100A1- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.200A1- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.300A1- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.366A1- | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.400A1- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.500A1- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.600A1- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.650A1- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.700A1- | 4.7 | 0.185 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC175-05-04.763A1- | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-04.800A1- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-04.900A1- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.000A1- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.100A1- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.159A1- | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.200A1- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.300A1- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.400A1- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.500A1- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC175-05-05.550A1- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | ☺ |

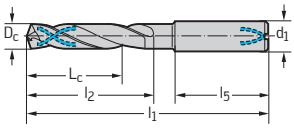
With diameters of 3–3.75, overall length in accordance with DIN 6537 L, flutes shortened compared to DIN 6537 L
Ordering example for the grade WJ30RZ: DC175-05-03.000A1-WJ30RZ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



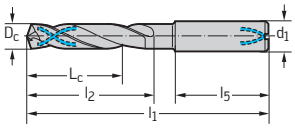

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-05-05.556A1- | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-05.600A1- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-05.700A1- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-05.800A1- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-05.900A1- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-05.953A1- | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-06.000A1- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC175-05-06.100A1- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.200A1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.300A1- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.350A1- | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.400A1- | 6.4 | 0.252 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.500A1- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.600A1- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.700A1- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.747A1- | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.800A1- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-06.900A1- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.000A1- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.100A1- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.144A1- | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.200A1- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.300A1- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.400A1- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.500A1- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.541A1- | 7.541 | 0.2969 | 19/64" | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.600A1- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.700A1- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.800A1- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.900A1- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-07.938A1- | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-08.000A1- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC175-05-08.100A1- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.200A1- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.300A1- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.334A1- | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.400A1- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.500A1- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.600A1- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.700A1- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.731A1- | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.800A1- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-08.900A1- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-09.000A1- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-09.100A1- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-09.128A1- | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-09.200A1- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | |
| DC175-05-09.300A1- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |

With diameters of 3–3.75, overall length in accordance with DIN 6537 L, flutes shortened compared to DIN 6537 L
Ordering example for the grade WJ30RZ: DC175-05-03.000A1-WJ30RZ

## Tool

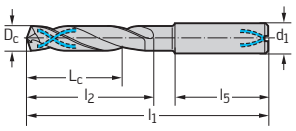



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-05-09.400A1- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.500A1- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.525A1- | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.600A1- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.700A1- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.800A1- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.900A1- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-09.922A1- | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-10.000A1- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC175-05-10.100A1- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.200A1- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.300A1- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.319A1- | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.400A1- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.500A1- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.600A1- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.700A1- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.716A1- | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.800A1- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-10.900A1- | 10.9 | 0.4291 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.000A1- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.100A1- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.113A1- | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.200A1- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.300A1- | 11.3 | 0.4449 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.400A1- | 11.4 | 0.4488 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.500A1- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.509A1- | 11.509 | 0.4531 | 29/64" | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.600A1- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.700A1- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.800A1- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-11.900A1- | 11.9 | 0.4685 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-12.000A1- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC175-05-12.100A1- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.200A1- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.300A1- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.303A1- | 12.303 | 0.4844 | 31/64" | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.500A1- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.600A1- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.700A1- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-12.800A1- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-13.000A1- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-13.100A1- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-13.300A1- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-13.494A1- | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-13.500A1- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-13.800A1- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC175-05-14.000A1- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | ● |

With diameters of 3–3.75, overall length in accordance with DIN 6537 L, flutes shortened compared to DIN 6537 L
Ordering example for the grade WJ30RZ: DC175-05-03.000A1-WJ30RZ

## Tool

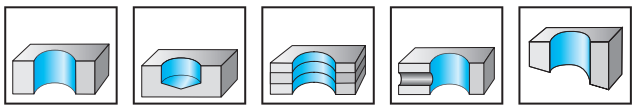



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RZ |
|---|---|---|---|---|---|---|---|---|---|
| DC175-05-14.200A1- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-14.288A1- | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-14.400A1- | 14.4 | 0.5669 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-14.500A1- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-14.800A1- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-15.000A1- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-15.100A1- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-15.300A1- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-15.500A1- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-15.800A1- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-15.875A1- | 15.875 | 0.6250 | 5/8" | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-16.000A1- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC175-05-16.500A1- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC175-05-17.000A1- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC175-05-17.500A1- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC175-05-18.000A1- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC175-05-18.500A1- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | |
| DC175-05-19.000A1- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC175-05-19.500A1- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | |
| DC175-05-20.000A1- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |

With diameters of 3–3.75, overall length in accordance with DIN 6537 L, flutes shortened compared to DIN 6537 L
Ordering example for the grade WJ30RZ: DC175-05-03.000A1-WJ30RZ

# Solid carbide drills with coolant-through
# DC170 Supreme

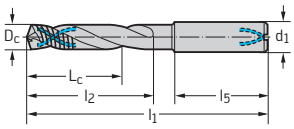


5×$D_c$ | DIN 6537 L | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-05-03.000A1- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.100A1- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.175A1- | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.200A1- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.300A1- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.400A1- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.500A1- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.600A1- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.700A1- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC170-05-03.800A1- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-03.900A1- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-03.969A1- | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.000A1- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.100A1- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.200A1- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.300A1- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.366A1- | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.400A1- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.500A1- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.600A1- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.650A1- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.700A1- | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC170-05-04.763A1- | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-04.800A1- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-04.900A1- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.000A1- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.100A1- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.159A1- | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.200A1- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.300A1- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.500A1- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.550A1- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.556A1- | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.600A1- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC170-05-05.700A1- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | ☺ |

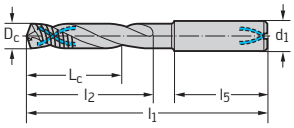
Ordering example for the grade WJ30EJ: DC170-05-03.000A1-WJ30EJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



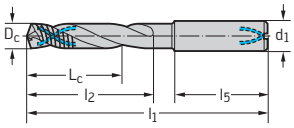

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-05-05.800A1- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC170-05-05.900A1- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC170-05-05.953A1- | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 | |
| DC170-05-06.000A1- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC170-05-06.100A1- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.200A1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.300A1- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.350A1- | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.400A1- | 6.4 | 0.252 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.500A1- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.600A1- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.700A1- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.747A1- | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.800A1- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-06.900A1- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.000A1- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.100A1- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.144A1- | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.200A1- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.300A1- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.400A1- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.500A1- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.800A1- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.900A1- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-07.938A1- | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-08.000A1- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC170-05-08.100A1- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.200A1- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.300A1- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.334A1- | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.400A1- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.500A1- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.600A1- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.700A1- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.731A1- | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-08.800A1- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.000A1- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.128A1- | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.200A1- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.300A1- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.500A1- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.525A1- | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.600A1- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.700A1- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.800A1- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-09.900A1- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-10.000A1- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC170-05-10.100A1- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |

Ordering example for the grade WJ30EJ: DC170-05-03.000A1-WJ30EJ

## Tool

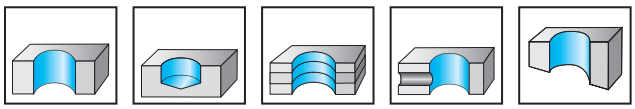


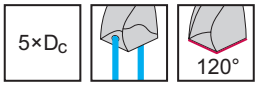

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-05-10.200A1- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-10.300A1- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-10.319A1- | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-10.400A1- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-10.500A1- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-10.716A1- | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-10.800A1- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.000A1- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.100A1- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.113A1- | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.200A1- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.500A1- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.509A1- | 11.509 | 0.4531 | 29/64" | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.800A1- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-11.906A1- | 11.906 | 0.4687 | 15/32" | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-12.000A1- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC170-05-12.100A1- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-12.200A1- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-12.300A1- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-12.303A1- | 12.303 | 0.4844 | 31/64" | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-12.500A1- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-12.700A1- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-13.000A1- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-13.300A1- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-13.494A1- | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-13.500A1- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-14.000A1- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | |
| DC170-05-14.288A1- | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 | |
| DC170-05-14.500A1- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC170-05-15.000A1- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC170-05-15.500A1- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC170-05-15.875A1- | 15.875 | 0.6250 | 5/8" | 63 | 133 | 83 | 48 | 16 | |
| DC170-05-16.000A1- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC170-05-16.500A1- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC170-05-17.000A1- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC170-05-17.500A1- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC170-05-18.000A1- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC170-05-18.500A1- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | |
| DC170-05-19.000A1- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC170-05-19.050A1- | 19.05 | 0.7500 | 3/4" | 77 | 153 | 101 | 50 | 20 | |
| DC170-05-20.000A1- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |

Ordering example for the grade WJ30EJ: DC170-05-03.000A1-WJ30EJ

# Solid carbide drills with coolant-through, straight groove
# DC165 Advance

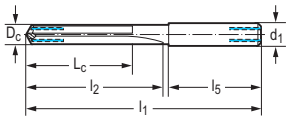





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30UU | | | ●● | ●● | | | |

## Tool




DIN 6535 HA

| Designation | k6 mm | $D_6$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | $d_1$ mm | WJ30UU |
|---|---|---|---|---|---|---|---|---|
| DC165-05-04.000A1- | 4 | 0.1575 | 16 | 74 | 31 | 36 | 6 | 😊 |
| DC165-05-05.000A1- | 5 | 0.1969 | 22 | 82 | 40 | 36 | 6 | 😊 |
| DC165-05-06.000A1- | 6 | 0.2362 | 22 | 82 | 40 | 36 | 6 | 😊 |
| DC165-05-08.000A1- | 8 | 0.3150 | 29 | 91 | 49 | 36 | 8 | 😊 |
| DC165-05-08.500A1- | 8.5 | 0.3346 | 37 | 103 | 57 | 40 | 10 | 😊 |
| DC165-05-10.000A1- | 10 | 0.3937 | 37 | 103 | 57 | 40 | 10 | 😊 |
| DC165-05-10.200A1- | 10.2 | 0.4016 | 43 | 118 | 67 | 45 | 12 | 😊 |
| DC165-05-11.000A1- | 11 | 0.4331 | 43 | 118 | 67 | 45 | 12 | 😊 |
| DC165-05-12.000A1- | 12 | 0.4724 | 43 | 118 | 67 | 45 | 12 | 😊 |
| DC165-05-14.000A1- | 14 | 0.5512 | 45 | 124 | 73 | 45 | 14 | 😊 |
| DC165-05-15.000A1- | 15 | 0.5906 | 55 | 133 | 79 | 48 | 16 | 😊 |
| DC165-05-16.000A1- | 16 | 0.6299 | 55 | 133 | 79 | 48 | 16 | 😊 |

Ordering example for the grade WJ30UU: DC165-05-04.000A1-WJ30UU

**WALTER SELECT**

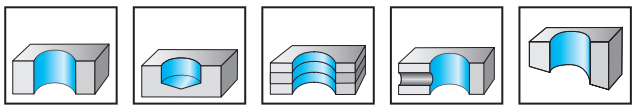
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😠 machining conditions

# Solid carbide drills with coolant-through

## DC160 Advance

## X-treme Evo

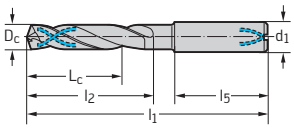


5×$D_c$ | DIN 6537 L | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | ● | ●● | ●● | ●● | ● | ● |

B1

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-03.000A1- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.100A1- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.175A1- | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.200A1- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.250A1- | 3.25 | 0.1280 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.300A1- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.400A1- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.500A1- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.572A1- | 3.572 | 0.1406 | 9/64" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.600A1- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.650A1- | 3.65 | 0.1437 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.700A1- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.800A1- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-03.900A1- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-03.969A1- | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.000A1- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.100A1- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.200A1- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.300A1- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.366A1- | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.400A1- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.500A1- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.600A1- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.650A1- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.700A1- | 4.7 | 0.185 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.763A1- | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-04.800A1- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-04.900A1- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.000A1- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.100A1- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.159A1- | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.200A1- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.300A1- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.400A1- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.500A1- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | ☺ |

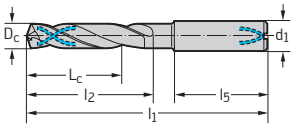
Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



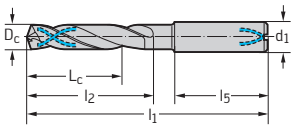

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-05.550A1- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.556A1- | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.600A1- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.700A1- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.800A1- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.900A1- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.953A1- | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.000A1- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.100A1- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.200A1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.300A1- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.350A1- | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.400A1- | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.500A1- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.600A1- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.700A1- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.747A1- | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.800A1- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.900A1- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.000A1- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.100A1- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.144A1- | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.200A1- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.300A1- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.400A1- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.500A1- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.541A1- | 7.541 | 0.2969 | 19/64" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.550A1- | 7.55 | 0.2972 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.600A1- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.700A1- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.800A1- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.900A1- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.938A1- | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.000A1- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.100A1- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.200A1- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.300A1- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.334A1- | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.400A1- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.500A1- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.600A1- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.700A1- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.731A1- | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.800A1- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.900A1- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.000A1- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.100A1- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.128A1- | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

## Tool

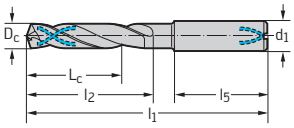



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-09.200A1- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.300A1- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.400A1- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.500A1- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.525A1- | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.550A1- | 9.55 | 0.3760 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.600A1- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.700A1- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.800A1- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.900A1- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.922A1- | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.000A1- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.100A1- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.200A1- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.300A1- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.319A1- | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.400A1- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.500A1- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.600A1- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.700A1- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.716A1- | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.800A1- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.900A1- | 10.9 | 0.4291 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.000A1- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.100A1- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.113A1- | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.200A1- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.300A1- | 11.3 | 0.4449 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.400A1- | 11.4 | 0.4488 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.500A1- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.509A1- | 11.509 | 0.4531 | 29/64" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.550A1- | 11.55 | 0.4547 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.600A1- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.700A1- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.800A1- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.900A1- | 11.9 | 0.4685 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.906A1- | 11.906 | 0.4687 | 15/32" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-12.000A1- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-12.100A1- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.200A1- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.250A1- | 12.25 | 0.4823 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.300A1- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.303A1- | 12.303 | 0.4844 | 31/64" | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.400A1- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.500A1- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.600A1- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.700A1- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.750A1- | 12.75 | 0.5020 | | 60 | 124 | 77 | 45 | 14 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

## Tool



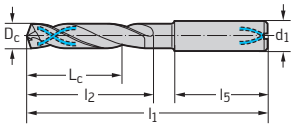

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-12.800A1- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.900A1- | 12.9 | 0.5079 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.000A1- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.100A1- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.200A1- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.300A1- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.400A1- | 13.4 | 0.5276 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.494A1- | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.500A1- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.600A1- | 13.6 | 0.5354 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.700A1- | 13.7 | 0.5394 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.800A1- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.900A1- | 13.9 | 0.5472 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-14.000A1- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-14.100A1- | 14.1 | 0.5551 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.200A1- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.288A1- | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.300A1- | 14.3 | 0.5630 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.400A1- | 14.4 | 0.5669 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.500A1- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.600A1- | 14.6 | 0.5748 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.700A1- | 14.7 | 0.5787 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.750A1- | 14.75 | 0.5807 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.800A1- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.900A1- | 14.9 | 0.5866 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.000A1- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.100A1- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.200A1- | 15.2 | 0.5984 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.300A1- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.400A1- | 15.4 | 0.6063 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.500A1- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.600A1- | 15.6 | 0.6142 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.700A1- | 15.7 | 0.6181 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.800A1- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.875A1- | 15.875 | 0.6250 | 5/8" | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.900A1- | 15.9 | 0.6260 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.000A1- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.100A1- | 16.1 | 0.6339 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.200A1- | 16.2 | 0.6378 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.300A1- | 16.3 | 0.6417 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.400A1- | 16.4 | 0.6457 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.500A1- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.600A1- | 16.6 | 0.6535 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.700A1- | 16.7 | 0.6575 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.750A1- | 16.75 | 0.6594 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.800A1- | 16.8 | 0.6614 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.900A1- | 16.9 | 0.6654 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.000A1- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |

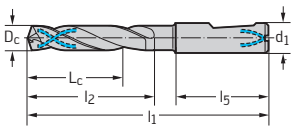
Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-17.100A1- | 17.1 | 0.6732 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.200A1- | 17.2 | 0.6772 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.300A1- | 17.3 | 0.6811 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.400A1- | 17.4 | 0.6850 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.500A1- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.600A1- | 17.6 | 0.6929 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.700A1- | 17.7 | 0.6969 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.800A1- | 17.8 | 0.7008 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.900A1- | 17.9 | 0.7047 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.000A1- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.100A1- | 18.1 | 0.7126 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.200A1- | 18.2 | 0.7165 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.300A1- | 18.3 | 0.7205 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.400A1- | 18.4 | 0.7244 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.500A1- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.600A1- | 18.6 | 0.7323 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.700A1- | 18.7 | 0.7362 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.800A1- | 18.8 | 0.7402 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.900A1- | 18.9 | 0.7441 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.000A1- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.050A1- | 19.05 | 0.7500 | 3/4" | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.100A1- | 19.1 | 0.7520 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.200A1- | 19.2 | 0.7559 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.300A1- | 19.3 | 0.7598 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.400A1- | 19.4 | 0.7638 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.500A1- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.600A1- | 19.6 | 0.7717 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.700A1- | 19.7 | 0.7756 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.800A1- | 19.8 | 0.7795 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.900A1- | 19.9 | 0.7835 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.000A1- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.500A1- | 20.5 | 0.8071 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.000A1- | 21 | 0.8268 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.500A1- | 21.5 | 0.8465 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.000A1- | 22 | 0.8661 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.500A1- | 22.5 | 0.8858 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.000A1- | 23 | 0.9055 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.500A1- | 23.5 | 0.9252 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.000A1- | 24 | 0.9449 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.500A1- | 24.5 | 0.9646 | | 97 | 180 | 122 | 56 | 25 | |
| DC160-05-25.000A1- | 25 | 0.9843 | | 97 | 180 | 122 | 56 | 25 | |



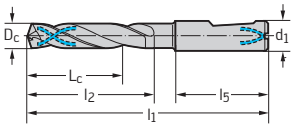

DIN 6535 HE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-03.000F1- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.100F1- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.200F1- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.250F1- | 3.25 | 0.1280 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.300F1- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.400F1- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.500F1- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

B1

## Tool



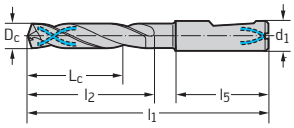

DIN 6535 HE

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-03.600F1- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.650F1- | 3.65 | 0.1437 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.700F1- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.800F1- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-03.900F1- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.000F1- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.100F1- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.200F1- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.300F1- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.400F1- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.500F1- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.600F1- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.650F1- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.700F1- | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.800F1- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-04.900F1- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.000F1- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.100F1- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.200F1- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.300F1- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.400F1- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.500F1- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.550F1- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.600F1- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.700F1- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.800F1- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.900F1- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.000F1- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.100F1- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.200F1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.300F1- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.400F1- | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.500F1- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.600F1- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.700F1- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.800F1- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.900F1- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.000F1- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.100F1- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.200F1- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.300F1- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.400F1- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.500F1- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.550F1- | 7.55 | 0.2972 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.600F1- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.700F1- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.800F1- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.900F1- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

## Tool

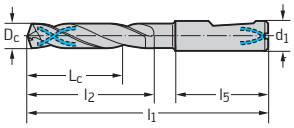



DIN 6535 HE

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-08.000F1- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.100F1- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.200F1- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.300F1- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.400F1- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.500F1- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.600F1- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.700F1- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.800F1- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.900F1- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.000F1- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.100F1- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.200F1- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.300F1- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.400F1- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.500F1- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.550F1- | 9.55 | 0.3760 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.600F1- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.700F1- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.800F1- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.900F1- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.000F1- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.100F1- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.200F1- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.300F1- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.400F1- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.500F1- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.600F1- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.700F1- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.800F1- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.900F1- | 10.9 | 0.4291 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.000F1- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.100F1- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.200F1- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.300F1- | 11.3 | 0.4449 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.400F1- | 11.4 | 0.4488 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.500F1- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.550F1- | 11.55 | 0.4547 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.600F1- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.700F1- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.800F1- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.900F1- | 11.9 | 0.4685 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-12.000F1- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-12.100F1- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.200F1- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.250F1- | 12.25 | 0.4823 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.300F1- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.400F1- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

## Tool



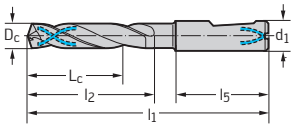

DIN 6535 HE

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-12.500F1- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.600F1- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.700F1- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.750F1- | 12.75 | 0.5020 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.800F1- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.900F1- | 12.9 | 0.5079 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.000F1- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.100F1- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.200F1- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.300F1- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.400F1- | 13.4 | 0.5276 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.500F1- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.600F1- | 13.6 | 0.5354 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.700F1- | 13.7 | 0.5394 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.800F1- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.900F1- | 13.9 | 0.5472 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-14.000F1- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-14.100F1- | 14.1 | 0.5551 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.200F1- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.300F1- | 14.3 | 0.5630 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.400F1- | 14.4 | 0.5669 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.500F1- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.600F1- | 14.6 | 0.5748 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.700F1- | 14.7 | 0.5787 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.750F1- | 14.75 | 0.5807 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.800F1- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.900F1- | 14.9 | 0.5866 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.000F1- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.100F1- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.200F1- | 15.2 | 0.5984 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.300F1- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.400F1- | 15.4 | 0.6063 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.500F1- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.600F1- | 15.6 | 0.6142 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.700F1- | 15.7 | 0.6181 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.800F1- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.900F1- | 15.9 | 0.6260 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.000F1- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.100F1- | 16.1 | 0.6339 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.200F1- | 16.2 | 0.6378 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.300F1- | 16.3 | 0.6417 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.400F1- | 16.4 | 0.6457 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.500F1- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.600F1- | 16.6 | 0.6535 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.700F1- | 16.7 | 0.6575 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.750F1- | 16.75 | 0.6594 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.800F1- | 16.8 | 0.6614 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.900F1- | 16.9 | 0.6654 | | 71 | 143 | 93 | 48 | 18 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

## Tool

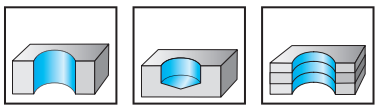



DIN 6535 HE

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-17.000F1- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.100F1- | 17.1 | 0.6732 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.200F1- | 17.2 | 0.6772 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.300F1- | 17.3 | 0.6811 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.400F1- | 17.4 | 0.6850 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.500F1- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.600F1- | 17.6 | 0.6929 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.700F1- | 17.7 | 0.6969 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.800F1- | 17.8 | 0.7008 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.900F1- | 17.9 | 0.7047 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.000F1- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.100F1- | 18.1 | 0.7126 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.200F1- | 18.2 | 0.7165 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.300F1- | 18.3 | 0.7205 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.400F1- | 18.4 | 0.7244 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.500F1- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.600F1- | 18.6 | 0.7323 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.700F1- | 18.7 | 0.7362 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.800F1- | 18.8 | 0.7402 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.900F1- | 18.9 | 0.7441 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.000F1- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.100F1- | 19.1 | 0.7520 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.200F1- | 19.2 | 0.7559 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.300F1- | 19.3 | 0.7598 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.400F1- | 19.4 | 0.7638 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.500F1- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.600F1- | 19.6 | 0.7717 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.700F1- | 19.7 | 0.7756 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.800F1- | 19.8 | 0.7795 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.900F1- | 19.9 | 0.7835 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.000F1- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.500F1- | 20.5 | 0.8071 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.000F1- | 21 | 0.8268 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.500F1- | 21.5 | 0.8465 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.000F1- | 22 | 0.8661 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.500F1- | 22.5 | 0.8858 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.000F1- | 23 | 0.9055 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.500F1- | 23.5 | 0.9252 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.000F1- | 24 | 0.9449 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.500F1- | 24.5 | 0.9646 | | 97 | 180 | 122 | 56 | 25 | |
| DC160-05-25.000F1- | 25 | 0.9843 | | 97 | 180 | 122 | 56 | 25 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A1-WJ30ET

# Solid carbide drills with coolant-through
# DC150 Perform

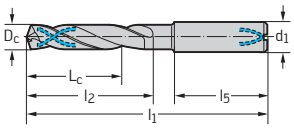


5×$D_c$ | DIN 6537 L | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30RE | ●● | ● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-03.000A1- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.100A1- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.175A1- | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.200A1- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.250A1- | 3.25 | 0.1280 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.300A1- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.400A1- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.500A1- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.572A1- | 3.572 | 0.1406 | 9/64" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.600A1- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.650A1- | 3.65 | 0.1437 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.700A1- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.800A1- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-03.900A1- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-03.969A1- | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.000A1- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.100A1- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.200A1- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.300A1- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.366A1- | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.400A1- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.500A1- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.600A1- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.650A1- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.700A1- | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.763A1- | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-04.800A1- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-04.900A1- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.000A1- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.100A1- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.159A1- | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.200A1- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.300A1- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.400A1- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.500A1- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | ☺ |

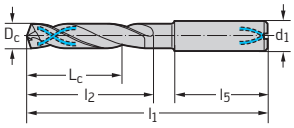
Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



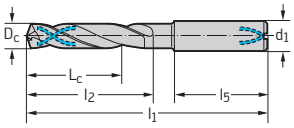

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-05.550A1- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.556A1- | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.600A1- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.700A1- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.800A1- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.900A1- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.953A1- | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-06.000A1- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-06.100A1- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.200A1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.300A1- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.350A1- | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.400A1- | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.500A1- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.600A1- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.700A1- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.747A1- | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.800A1- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.900A1- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.000A1- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.100A1- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.144A1- | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.200A1- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.300A1- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.400A1- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.500A1- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.541A1- | 7.541 | 0.2969 | 19/64" | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.550A1- | 7.55 | 0.2972 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.600A1- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.700A1- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.800A1- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.900A1- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-07.938A1- | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-08.000A1- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-08.100A1- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.200A1- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.300A1- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.334A1- | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.400A1- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.500A1- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.600A1- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.700A1- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.731A1- | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.800A1- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-08.900A1- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.000A1- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.100A1- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.128A1- | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 | |

Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

B1

## Tool



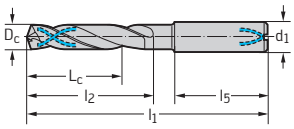

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-09.200A1- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.300A1- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.400A1- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.500A1- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.525A1- | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.550A1- | 9.55 | 0.3760 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.600A1- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.700A1- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.800A1- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.900A1- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.922A1- | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-10.000A1- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-10.100A1- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.200A1- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.300A1- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.319A1- | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.400A1- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.500A1- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.600A1- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.700A1- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.716A1- | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.800A1- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.900A1- | 10.9 | 0.4291 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.000A1- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.100A1- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.113A1- | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.200A1- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.300A1- | 11.3 | 0.4449 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.400A1- | 11.4 | 0.4488 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.500A1- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.509A1- | 11.509 | 0.4531 | 29/64" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.600A1- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.700A1- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.800A1- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.900A1- | 11.9 | 0.4685 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.906A1- | 11.906 | 0.4687 | 15/32" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-12.000A1- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-12.100A1- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.200A1- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.250A1- | 12.25 | 0.4823 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.300A1- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.303A1- | 12.303 | 0.4844 | 31/64" | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.400A1- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.500A1- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.600A1- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.700A1- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.800A1- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.900A1- | 12.9 | 0.5079 | | 60 | 124 | 77 | 45 | 14 | |

Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

## Tool

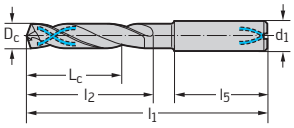



DIN 6535 HA

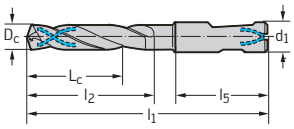
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-13.000A1- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.100A1- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.200A1- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.300A1- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.400A1- | 13.4 | 0.5276 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.494A1- | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.500A1- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.600A1- | 13.6 | 0.5354 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.700A1- | 13.7 | 0.5394 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.800A1- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-13.900A1- | 13.9 | 0.5472 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-14.000A1- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC150-05-14.100A1- | 14.1 | 0.5551 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.200A1- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.288A1- | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.300A1- | 14.3 | 0.5630 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.500A1- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.600A1- | 14.6 | 0.5748 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.700A1- | 14.7 | 0.5787 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.750A1- | 14.75 | 0.5807 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-14.800A1- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.000A1- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.100A1- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.200A1- | 15.2 | 0.5984 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.300A1- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.500A1- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.600A1- | 15.6 | 0.6142 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.700A1- | 15.7 | 0.6181 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.800A1- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-15.875A1- | 15.875 | 0.6250 | 5/8" | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-16.000A1- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC150-05-16.100A1- | 16.1 | 0.6339 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-16.200A1- | 16.2 | 0.6378 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-16.300A1- | 16.3 | 0.6417 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-16.500A1- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-16.700A1- | 16.7 | 0.6575 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-16.750A1- | 16.75 | 0.6594 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.000A1- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.100A1- | 17.1 | 0.6732 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.200A1- | 17.2 | 0.6772 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.300A1- | 17.3 | 0.6811 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.500A1- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.600A1- | 17.6 | 0.6929 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.700A1- | 17.7 | 0.6969 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.800A1- | 17.8 | 0.7008 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-17.900A1- | 17.9 | 0.7047 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-18.000A1- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | ● |
| DC150-05-18.500A1- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | ● |

Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

## Tool




DIN 6535 HA

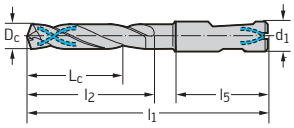



DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-18.900A1- | 18.9 | 0.7441 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.000A1- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.050A1- | 19.05 | 0.7500 | 3/4" | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.300A1- | 19.3 | 0.7598 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.500A1- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.700A1- | 19.7 | 0.7756 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.800A1- | 19.8 | 0.7795 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-20.000A1- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-03.000D1- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.100D1- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.200D1- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.300D1- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.400D1- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.500D1- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.600D1- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.700D1- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | |
| DC150-05-03.800D1- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-03.900D1- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.000D1- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.100D1- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.200D1- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.300D1- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.400D1- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.500D1- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.600D1- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.650D1- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.700D1- | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 | |
| DC150-05-04.800D1- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-04.900D1- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.000D1- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.100D1- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.200D1- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.300D1- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.400D1- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.500D1- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.550D1- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.600D1- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.700D1- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.800D1- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-05.900D1- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-06.000D1- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC150-05-06.100D1- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.200D1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.300D1- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.400D1- | 6.4 | 0.252 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.500D1- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.600D1- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC150-05-06.700D1- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |

Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

## Tool

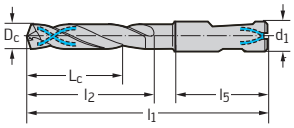



DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-06.800D1- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.900D1- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.000D1- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.100D1- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.200D1- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.300D1- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.400D1- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.500D1- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.600D1- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.700D1- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.800D1- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.900D1- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-08.000D1- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-08.100D1- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.200D1- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.300D1- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.400D1- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.500D1- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.600D1- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.700D1- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.800D1- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.000D1- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.100D1- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.200D1- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.300D1- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.400D1- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.500D1- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.600D1- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.700D1- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.800D1- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.900D1- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-10.000D1- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-10.100D1- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-10.200D1- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-10.300D1- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-10.400D1- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-10.500D1- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-10.600D1- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-10.800D1- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.000D1- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.100D1- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.200D1- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.300D1- | 11.3 | 0.4449 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.500D1- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.600D1- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.700D1- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.800D1- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC150-05-11.900D1- | 11.9 | 0.4685 | | 56 | 118 | 71 | 45 | 12 | ● |

Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

## Tool




DIN 6535 HE, turned 180° DIN 6535 HB

B1

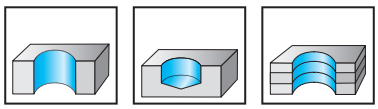
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-12.000D1- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-12.100D1- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.200D1- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.300D1- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.400D1- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.500D1- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.700D1- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.800D1- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.000D1- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.100D1- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.200D1- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.500D1- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.800D1- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-14.000D1- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-14.100D1- | 14.1 | 0.5551 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.200D1- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.300D1- | 14.3 | 0.5630 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.500D1- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.600D1- | 14.6 | 0.5748 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.800D1- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.000D1- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.100D1- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.200D1- | 15.2 | 0.5984 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.300D1- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.500D1- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.600D1- | 15.6 | 0.6142 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.700D1- | 15.7 | 0.6181 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.800D1- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-16.000D1- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-16.500D1- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-16.600D1- | 16.6 | 0.6535 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.000D1- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.200D1- | 17.2 | 0.6772 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.300D1- | 17.3 | 0.6811 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.500D1- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.700D1- | 17.7 | 0.6969 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.800D1- | 17.8 | 0.7008 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-18.000D1- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-18.100D1- | 18.1 | 0.7126 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-18.500D1- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-18.800D1- | 18.8 | 0.7402 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.000D1- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.500D1- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-19.700D1- | 19.7 | 0.7756 | | 77 | 153 | 101 | 50 | 20 | |
| DC150-05-20.000D1- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |

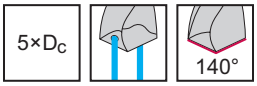
Ordering example for the grade WJ30RE: DC150-05-03.000A1-WJ30RE

# Solid carbide micro drills with coolant-through

## DB133 Supreme



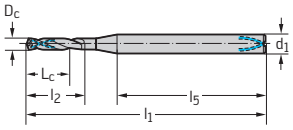





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EL | ●● | ●● | ●● | ●● | ●● | ● | ● |

B1

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EL |
|---|---|---|---|---|---|---|---|---|---|
| DB133-05-00.700A1- | 0.7 | 0.0276 | | 4.9 | 48 | 6 | 35 | 3 | |
| DB133-05-00.750A1- | 0.75 | 0.0295 | | 5.8 | 48 | 7 | 34 | 3 | |
| DB133-05-00.794A1- | 0.794 | 0.0313 | 1/32" | 5.8 | 48 | 7 | 34 | 3 | |
| DB133-05-00.800A1- | 0.8 | 0.0315 | | 5.8 | 48 | 7 | 34 | 3 | |
| DB133-05-00.850A1- | 0.85 | 0.0335 | | 6.6 | 50 | 8 | 35 | 3 | |
| DB133-05-00.900A1- | 0.9 | 0.0354 | | 6.6 | 50 | 8 | 35 | 3 | |
| DB133-05-00.950A1- | 0.95 | 0.0374 | | 7.5 | 50 | 9 | 34 | 3 | |
| DB133-05-01.000A1- | 1 | 0.0394 | | 7.5 | 50 | 9 | 34 | 3 | |
| DB133-05-01.050A1- | 1.05 | 0.0413 | | 7 | 51 | 9 | 36 | 3 | |
| DB133-05-01.100A1- | 1.1 | 0.0433 | | 7 | 51 | 9 | 36 | 3 | |
| DB133-05-01.150A1- | 1.15 | 0.0453 | | 8 | 51 | 10 | 35 | 3 | |
| DB133-05-01.191A1- | 1.191 | 0.0469 | 3/64" | 8 | 51 | 10 | 35 | 3 | |
| DB133-05-01.200A1- | 1.2 | 0.0472 | | 8 | 51 | 10 | 35 | 3 | |
| DB133-05-01.250A1- | 1.25 | 0.0492 | | 9 | 51 | 11 | 34 | 3 | |
| DB133-05-01.300A1- | 1.3 | 0.0512 | | 9 | 53 | 11 | 36 | 3 | |
| DB133-05-01.350A1- | 1.35 | 0.0531 | | 9 | 53 | 12 | 35 | 3 | |
| DB133-05-01.400A1- | 1.4 | 0.0551 | | 9 | 53 | 12 | 35 | 3 | |
| DB133-05-01.450A1- | 1.45 | 0.0571 | | 10 | 53 | 13 | 34 | 3 | |
| DB133-05-01.500A1- | 1.5 | 0.0591 | | 10 | 53 | 13 | 34 | 3 | |
| DB133-05-01.550A1- | 1.55 | 0.0610 | | 11 | 54 | 14 | 35 | 3 | |
| DB133-05-01.588A1- | 1.588 | 0.0625 | 1/16" | 11 | 54 | 14 | 35 | 3 | |
| DB133-05-01.600A1- | 1.6 | 0.0630 | | 11 | 54 | 14 | 35 | 3 | |
| DB133-05-01.650A1- | 1.65 | 0.0650 | | 11 | 54 | 14 | 35 | 3 | |
| DB133-05-01.700A1- | 1.7 | 0.0669 | | 11 | 54 | 14 | 35 | 3 | |
| DB133-05-01.750A1- | 1.75 | 0.0689 | | 12 | 54 | 15 | 34 | 3 | |
| DB133-05-01.800A1- | 1.8 | 0.0709 | | 12 | 54 | 15 | 34 | 3 | |
| DB133-05-01.850A1- | 1.85 | 0.0728 | | 13 | 57 | 16 | 36 | 3 | |
| DB133-05-01.900A1- | 1.9 | 0.0748 | | 13 | 57 | 16 | 36 | 3 | |
| DB133-05-01.950A1- | 1.95 | 0.0768 | | 14 | 57 | 17 | 35 | 3 | |
| DB133-05-01.984A1- | 1.984 | 0.0781 | 5/64" | 14 | 57 | 17 | 35 | 3 | |
| ★ DB133-05-02.000A1- | 2 | 0.0787 | | 14 | 57 | 17 | 35 | 3 | |
| ★ DB133-05-02.050A1- | 2.05 | 0.0807 | | 14 | 57 | 18 | 35 | 3 | |
| ★ DB133-05-02.100A1- | 2.1 | 0.0827 | | 14 | 57 | 18 | 35 | 3 | |
| ★ DB133-05-02.150A1- | 2.15 | 0.0846 | | 15 | 57 | 19 | 34 | 3 | |
| ★ DB133-05-02.200A1- | 2.2 | 0.0866 | | 15 | 57 | 19 | 34 | 3 | |

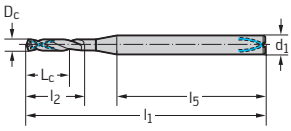
Ordering example for the grade WJ30EL: DB133-05-00.700A1-WJ30EL

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

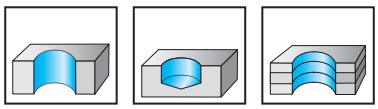
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EL |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-05-02.250A1- | 2.25 | 0.0886 | | 16 | 59 | 20 | 35 | 3 | |
| ★ DB133-05-02.300A1- | 2.3 | 0.0906 | | 16 | 59 | 20 | 35 | 3 | |
| ★ DB133-05-02.350A1- | 2.35 | 0.0925 | | 16 | 59 | 20 | 35 | 3 | |
| ★ DB133-05-02.381A1- | 2.381 | 0.0937 | 3/32" | 16 | 59 | 20 | 35 | 3 | |
| ★ DB133-05-02.400A1- | 2.4 | 0.0945 | | 16 | 59 | 20 | 35 | 3 | |
| ★ DB133-05-02.450A1- | 2.45 | 0.0965 | | 17 | 59 | 21 | 34 | 3 | |
| ★ DB133-05-02.500A1- | 2.5 | 0.0984 | | 17 | 59 | 21 | 34 | 3 | |
| ★ DB133-05-02.550A1- | 2.55 | 0.1004 | | 18 | 62 | 22 | 36 | 3 | |
| ★ DB133-05-02.600A1- | 2.6 | 0.1024 | | 18 | 62 | 22 | 36 | 3 | |
| ★ DB133-05-02.650A1- | 2.65 | 0.1043 | | 18 | 62 | 23 | 36 | 3 | |
| ★ DB133-05-02.700A1- | 2.7 | 0.1063 | | 18 | 62 | 23 | 36 | 3 | |
| ★ DB133-05-02.750A1- | 2.75 | 0.1083 | | 19 | 62 | 24 | 35 | 3 | |
| ★ DB133-05-02.778A1- | 2.778 | 0.1094 | 7/64" | 19 | 62 | 24 | 35 | 3 | |
| ★ DB133-05-02.800A1- | 2.8 | 0.1102 | | 19 | 62 | 24 | 35 | 3 | |
| ★ DB133-05-02.850A1- | 2.85 | 0.1122 | | 20 | 62 | 25 | 34 | 3 | |
| ★ DB133-05-02.900A1- | 2.9 | 0.1142 | | 20 | 62 | 25 | 34 | 3 | |
| ★ DB133-05-02.950A1- | 2.95 | 0.1161 | | 20 | 62 | 25 | 34 | 3 | |

Ordering example for the grade WJ30EL: DB133-05-00.700A1-WJ30EL

# Solid carbide drills with coolant-through

## A3389DPL

## X·treme Plus

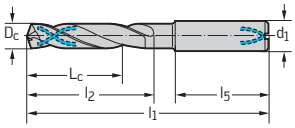


5×$D_c$ | DIN 6537 L | 140°

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

B1

### Tool




DIN 6535 HA

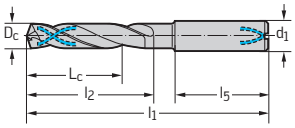
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3389DPL-3 | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.1 | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-1/8IN | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.2 | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.25 | 3.25 | 0.1280 | | 22 | 66 | 28 | 36 | 6 |
| A3389DPL-3.3 | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.4 | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.5 | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-9/64IN | 3.572 | 0.1406 | 9/64" | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.6 | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.7 | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 |
| A3389DPL-3.8 | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-3.9 | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-5/32IN | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4 | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.1 | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.2 | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.3 | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-11/64IN | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.4 | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.5 | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.6 | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.65 | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-4.7 | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 |
| A3389DPL-3/16IN | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-4.8 | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-4.9 | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5 | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.1 | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-13/64IN | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.2 | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.3 | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.4 | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.5 | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.55 | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

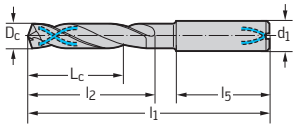



DIN 6535 HA



| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3389DPL-7/32IN | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.6 | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.7 | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.8 | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-5.9 | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-15/64IN | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-6 | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 |
| A3389DPL-6.1 | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.2 | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.3 | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-1/4IN | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.4 | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.5 | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.6 | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.7 | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-17/64IN | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.8 | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-6.9 | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7 | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.1 | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-9/32IN | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.2 | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.3 | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.4 | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.5 | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-19/64IN | 7.541 | 0.2969 | 19/64" | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.55 | 7.55 | 0.2972 | | 41 | 91 | 53 | 36 | 8 |
| A3389DPL-7.8 | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-7.9 | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-5/16IN | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-8 | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 |
| A3389DPL-8.1 | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.2 | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.3 | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-21/64IN | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.4 | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.5 | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.6 | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.7 | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-11/32IN | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-8.75 | 8.75 | 0.3445 | | 46 | 103 | 61 | 40 | 10 |
| A3389DPL-8.8 | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9 | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-23/64IN | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9.2 | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9.3 | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9.5 | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-3/8IN | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 |

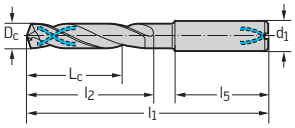
## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3389DPL-9.6 | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9.7 | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9.8 | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-9.9 | 9.9 | 0.3898 | | 46 | 103 | 61 | 40 | 10 |
| A3389DPL-25/64IN | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-10 | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 |
| A3389DPL-10.1 | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-10.2 | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-10.3 | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-13/32IN | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-10.4 | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-10.5 | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-27/64IN | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-10.8 | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-11 | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-11.1 | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-7/16IN | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-11.2 | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-11.3 | 11.3 | 0.4449 | | 53 | 118 | 71 | 45 | 12 |
| A3389DPL-11.4 | 11.4 | 0.4488 | | 53 | 118 | 71 | 45 | 12 |
| A3389DPL-11.5 | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-29/64IN | 11.509 | 0.4531 | 29/64" | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-11.7 | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-11.8 | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-15/32IN | 11.906 | 0.4687 | 15/32" | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-12 | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 |
| A3389DPL-12.1 | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-12.2 | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-12.3 | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-31/64IN | 12.303 | 0.4844 | 31/64" | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-12.5 | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-12.6 | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-1/2IN | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-13 | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-13.1 | 13.1 | 0.5157 | | 63 | 124 | 77 | 45 | 14 |
| A3389DPL-13.3 | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-17/32IN | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-13.5 | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-14 | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 |
| A3389DPL-9/16IN | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 |
| A3389DPL-14.5 | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 |
| A3389DPL-15 | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 |
| A3389DPL-15.1 | 15.1 | 0.5945 | | 67 | 133 | 83 | 48 | 16 |
| A3389DPL-15.3 | 15.3 | 0.6024 | | 67 | 133 | 83 | 48 | 16 |
| A3389DPL-15.5 | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 |
| A3389DPL-5/8IN | 15.875 | 0.6250 | 5/8" | 63 | 133 | 83 | 48 | 16 |
| A3389DPL-16 | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 |
| A3389DPL-16.5 | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 |

## Tool

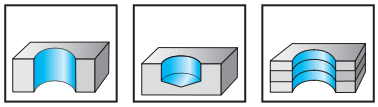


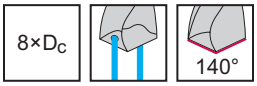

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3389DPL-17 | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 |
| A3389DPL-17.5 | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 |
| A3389DPL-18 | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 |
| A3389DPL-18.5 | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 |
| A3389DPL-19 | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 |
| A3389DPL-3/4IN | 19.05 | 0.7500 | 3/4“ | 77 | 153 | 101 | 50 | 20 |
| A3389DPL-20 | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 |

# Solid carbide twist drill
# DC175 Supreme

– Walter Precision cooling

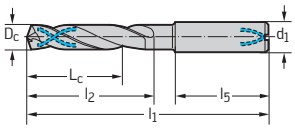





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30RY | ● | ●● | | ● | ●● | | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RY |
|---|---|---|---|---|---|---|---|---|---|
| DC175-08-03.000A1- | 3 | 0.1181 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.100A1- | 3.1 | 0.1220 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.175A1- | 3.175 | 0.1250 | 1/8" | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.200A1- | 3.2 | 0.1260 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.300A1- | 3.3 | 0.1299 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.400A1- | 3.4 | 0.1339 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.500A1- | 3.5 | 0.1378 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.700A1- | 3.7 | 0.1457 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC175-08-03.800A1- | 3.8 | 0.1496 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-03.900A1- | 3.9 | 0.1535 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.000A1- | 4 | 0.1575 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.100A1- | 4.1 | 0.1614 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.200A1- | 4.2 | 0.1654 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.300A1- | 4.3 | 0.1693 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.500A1- | 4.5 | 0.1772 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.700A1- | 4.7 | 0.1850 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC175-08-04.763A1- | 4.763 | 0.1875 | 3/16" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-04.800A1- | 4.8 | 0.1890 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-05.000A1- | 5 | 0.1969 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-05.100A1- | 5.1 | 0.2008 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-05.200A1- | 5.2 | 0.2047 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-05.500A1- | 5.5 | 0.2165 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-05.600A1- | 5.6 | 0.2205 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-05.800A1- | 5.8 | 0.2283 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-06.000A1- | 6 | 0.2362 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC175-08-06.100A1- | 6.1 | 0.2402 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.200A1- | 6.2 | 0.2441 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.300A1- | 6.3 | 0.2480 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.350A1- | 6.35 | 0.2500 | 1/4" | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.400A1- | 6.4 | 0.2520 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.500A1- | 6.5 | 0.2559 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.600A1- | 6.6 | 0.2598 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.700A1- | 6.7 | 0.2638 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.800A1- | 6.8 | 0.2677 | | 55 | 106 | 66 | 36 | 8 | ☺ |
| DC175-08-06.900A1- | 6.9 | 0.2717 | | 55 | 106 | 66 | 36 | 8 | ☺ |

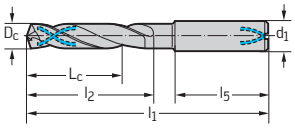
Ordering example for the grade WJ30RY: DC175-08-03.000A1-WJ30RY

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

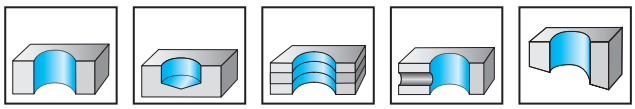


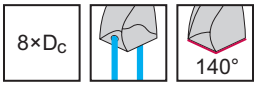

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RY |
|---|---|---|---|---|---|---|---|---|---|
| DC175-08-07.000A1- | 7 | 0.2756 | | 55 | 106 | 66 | 36 | 8 | ● |
| DC175-08-07.144A1- | 7.144 | 0.2813 | 9/32" | 64 | 116 | 76 | 36 | 8 | ● |
| DC175-08-07.500A1- | 7.5 | 0.2953 | | 64 | 116 | 76 | 36 | 8 | ● |
| DC175-08-07.600A1- | 7.6 | 0.2992 | | 64 | 116 | 76 | 36 | 8 | ● |
| DC175-08-07.700A1- | 7.7 | 0.3031 | | 64 | 116 | 76 | 36 | 8 | ● |
| DC175-08-08.000A1- | 8 | 0.3150 | | 64 | 116 | 76 | 36 | 8 | ● |
| DC175-08-08.100A1- | 8.1 | 0.3189 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-08.200A1- | 8.2 | 0.3228 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-08.400A1- | 8.4 | 0.3307 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-08.500A1- | 8.5 | 0.3346 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-08.600A1- | 8.6 | 0.3386 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-08.700A1- | 8.7 | 0.3425 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-08.800A1- | 8.8 | 0.3465 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-09.000A1- | 9 | 0.3543 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-09.200A1- | 9.2 | 0.3622 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-09.300A1- | 9.3 | 0.3661 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-09.500A1- | 9.5 | 0.3740 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-09.800A1- | 9.8 | 0.3858 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-10.000A1- | 10 | 0.3937 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC175-08-10.200A1- | 10.2 | 0.4016 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC175-08-10.500A1- | 10.5 | 0.4134 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC175-08-11.000A1- | 11 | 0.4331 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC175-08-11.500A1- | 11.5 | 0.4528 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC175-08-12.000A1- | 12 | 0.4724 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC175-08-12.500A1- | 12.5 | 0.4921 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC175-08-13.000A1- | 13 | 0.5118 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC175-08-14.000A1- | 14 | 0.5512 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC175-08-15.000A1- | 15 | 0.5906 | | 136 | 204 | 152 | 48 | 16 | ● |
| DC175-08-16.000A1- | 16 | 0.6299 | | 136 | 204 | 152 | 48 | 16 | ● |

Ordering example for the grade WJ30RY: DC175-08-03.000A1-WJ30RY

# Solid carbide drills with coolant-through
# DC170 Supreme

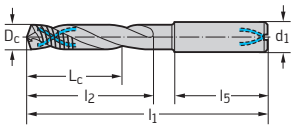





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-08-03.000A1- | 3 | 0.1181 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.100A1- | 3.1 | 0.1220 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.175A1- | 3.175 | 0.1250 | 1/8" | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.200A1- | 3.2 | 0.1260 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.300A1- | 3.3 | 0.1299 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.400A1- | 3.4 | 0.1339 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.500A1- | 3.5 | 0.1378 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.572A1- | 3.572 | 0.1406 | 9/64" | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.600A1- | 3.6 | 0.1417 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.700A1- | 3.7 | 0.1457 | | 28 | 74 | 34 | 36 | 6 | 😐 |
| DC170-08-03.800A1- | 3.8 | 0.1496 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-03.900A1- | 3.9 | 0.1535 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-03.969A1- | 3.969 | 0.1563 | 5/32" | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.000A1- | 4 | 0.1575 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.100A1- | 4.1 | 0.1614 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.200A1- | 4.2 | 0.1654 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.300A1- | 4.3 | 0.1693 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.366A1- | 4.366 | 0.1719 | 11/64" | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.400A1- | 4.4 | 0.1732 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.500A1- | 4.5 | 0.1772 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.600A1- | 4.6 | 0.1811 | | 37 | 85 | 45 | 36 | 6 | 😐 |
| DC170-08-04.763A1- | 4.763 | 0.1875 | 3/16" | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-04.800A1- | 4.8 | 0.1890 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-04.900A1- | 4.9 | 0.1929 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.000A1- | 5 | 0.1969 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.100A1- | 5.1 | 0.2008 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.159A1- | 5.159 | 0.2031 | 13/64" | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.200A1- | 5.2 | 0.2047 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.300A1- | 5.3 | 0.2087 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.400A1- | 5.4 | 0.2126 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.500A1- | 5.5 | 0.2165 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.556A1- | 5.556 | 0.2187 | 7/32" | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.600A1- | 5.6 | 0.2205 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.700A1- | 5.7 | 0.2244 | | 48 | 97 | 57 | 36 | 6 | 😐 |
| DC170-08-05.800A1- | 5.8 | 0.2283 | | 48 | 97 | 57 | 36 | 6 | 😐 |

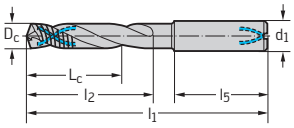
Ordering example for the grade WJ30EJ: DC170-08-03.000A1-WJ30EJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

## Tool



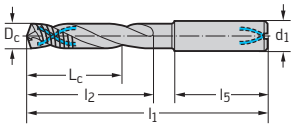

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-08-05.900A1- | 5.9 | 0.2323 | | 48 | 97 | 57 | 36 | 6 | |
| DC170-08-05.953A1- | 5.953 | 0.2344 | 15/64" | 48 | 97 | 57 | 36 | 6 | |
| DC170-08-06.000A1- | 6 | 0.2362 | | 48 | 97 | 57 | 36 | 6 | |
| DC170-08-06.100A1- | 6.1 | 0.2402 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.200A1- | 6.2 | 0.2441 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.300A1- | 6.3 | 0.2480 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.350A1- | 6.35 | 0.2500 | 1/4" | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.400A1- | 6.4 | 0.2520 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.500A1- | 6.5 | 0.2559 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.600A1- | 6.6 | 0.2598 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.700A1- | 6.7 | 0.2638 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.747A1- | 6.747 | 0.2656 | 17/64" | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.800A1- | 6.8 | 0.2677 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-06.900A1- | 6.9 | 0.2717 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-07.000A1- | 7 | 0.2756 | | 55 | 106 | 66 | 36 | 8 | |
| DC170-08-07.144A1- | 7.144 | 0.2813 | 9/32" | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.400A1- | 7.4 | 0.2913 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.500A1- | 7.5 | 0.2953 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.541A1- | 7.541 | 0.2969 | 19/64" | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.600A1- | 7.6 | 0.2992 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.700A1- | 7.7 | 0.3031 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.800A1- | 7.8 | 0.3071 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.900A1- | 7.9 | 0.3110 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-07.938A1- | 7.938 | 0.3125 | 5/16" | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-08.000A1- | 8 | 0.3150 | | 64 | 116 | 76 | 36 | 8 | |
| DC170-08-08.100A1- | 8.1 | 0.3189 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.200A1- | 8.2 | 0.3228 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.300A1- | 8.3 | 0.3268 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.334A1- | 8.334 | 0.3281 | 21/64" | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.400A1- | 8.4 | 0.3307 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.500A1- | 8.5 | 0.3346 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.600A1- | 8.6 | 0.3386 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.700A1- | 8.7 | 0.3425 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.731A1- | 8.731 | 0.3437 | 11/32" | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-08.800A1- | 8.8 | 0.3465 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.000A1- | 9 | 0.3543 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.100A1- | 9.1 | 0.3583 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.128A1- | 9.128 | 0.3594 | 23/64" | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.200A1- | 9.2 | 0.3622 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.300A1- | 9.3 | 0.3661 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.400A1- | 9.4 | 0.3701 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.500A1- | 9.5 | 0.3740 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.525A1- | 9.525 | 0.3750 | 3/8" | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.600A1- | 9.6 | 0.3780 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.700A1- | 9.7 | 0.3819 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.800A1- | 9.8 | 0.3858 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.900A1- | 9.9 | 0.3898 | | 80 | 139 | 95 | 40 | 10 | |
| DC170-08-09.922A1- | 9.922 | 0.3906 | 25/64" | 80 | 139 | 95 | 40 | 10 | |

Ordering example for the grade WJ30EJ: DC170-08-03.000A1-WJ30EJ

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-08-10.000A1- | 10 | 0.3937 | | 80 | 139 | 95 | 40 | 10 | ● |
| DC170-08-10.100A1- | 10.1 | 0.3976 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-10.200A1- | 10.2 | 0.4016 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-10.300A1- | 10.3 | 0.4055 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-10.319A1- | 10.319 | 0.4063 | 13/32" | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-10.500A1- | 10.5 | 0.4134 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-10.716A1- | 10.716 | 0.4219 | 27/64" | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-10.800A1- | 10.8 | 0.4252 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.000A1- | 11 | 0.4331 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.100A1- | 11.1 | 0.4370 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.113A1- | 11.113 | 0.4375 | 7/16" | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.200A1- | 11.2 | 0.4409 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.300A1- | 11.3 | 0.4449 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.400A1- | 11.4 | 0.4488 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.500A1- | 11.5 | 0.4528 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.700A1- | 11.7 | 0.4606 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.800A1- | 11.8 | 0.4646 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-11.900A1- | 11.9 | 0.4685 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-12.000A1- | 12 | 0.4724 | | 96 | 163 | 114 | 45 | 12 | ● |
| DC170-08-12.303A1- | 12.303 | 0.4844 | 31/64" | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-12.500A1- | 12.5 | 0.4921 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-12.700A1- | 12.7 | 0.5000 | 1/2" | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-13.000A1- | 13 | 0.5118 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-13.494A1- | 13.494 | 0.5313 | 17/32" | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-13.500A1- | 13.5 | 0.5315 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-14.000A1- | 14 | 0.5512 | | 119 | 182 | 133 | 45 | 14 | ● |
| DC170-08-14.288A1- | 14.288 | 0.5625 | 9/16" | 136 | 204 | 152 | 48 | 16 | ● |
| DC170-08-14.500A1- | 14.5 | 0.5709 | | 136 | 204 | 152 | 48 | 16 | ● |
| DC170-08-15.000A1- | 15 | 0.5906 | | 136 | 204 | 152 | 48 | 16 | ● |
| DC170-08-15.500A1- | 15.5 | 0.6102 | | 136 | 204 | 152 | 48 | 16 | ● |
| DC170-08-15.875A1- | 15.875 | 0.6250 | 5/8" | 136 | 204 | 152 | 48 | 16 | ● |
| DC170-08-16.000A1- | 16 | 0.6299 | | 136 | 204 | 152 | 48 | 16 | ● |
| DC170-08-16.500A1- | 16.5 | 0.6496 | | 153 | 223 | 171 | 48 | 18 | ● |
| DC170-08-17.000A1- | 17 | 0.6693 | | 153 | 223 | 171 | 48 | 18 | ● |
| DC170-08-17.500A1- | 17.5 | 0.6890 | | 153 | 223 | 171 | 48 | 18 | ● |
| DC170-08-18.000A1- | 18 | 0.7087 | | 153 | 223 | 171 | 48 | 18 | ● |
| DC170-08-20.000A1- | 20 | 0.7874 | | 170 | 244 | 190 | 50 | 20 | ● |

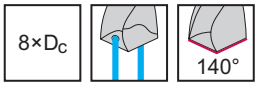
Ordering example for the grade WJ30EJ: DC170-08-03.000A1-WJ30EJ

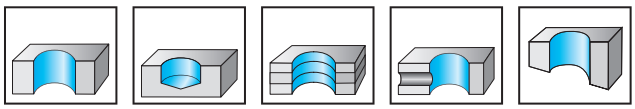
B1

# Solid carbide drills with coolant-through

## DC160 Advance

## X-treme Evo

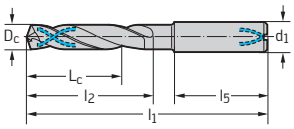


B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | ● | ●● | ●● | ●● | ● | ● |

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-08-03.000A1- | 3 | 0.1181 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.100A1- | 3.1 | 0.1220 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.175A1- | 3.175 | 0.1250 | 1/8" | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.200A1- | 3.2 | 0.1260 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.300A1- | 3.3 | 0.1299 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.400A1- | 3.4 | 0.1339 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.500A1- | 3.5 | 0.1378 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.572A1- | 3.572 | 0.1406 | 9/64" | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.600A1- | 3.6 | 0.1417 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.700A1- | 3.7 | 0.1457 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC160-08-03.800A1- | 3.8 | 0.1496 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-03.900A1- | 3.9 | 0.1535 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-03.969A1- | 3.969 | 0.1563 | 5/32" | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.000A1- | 4 | 0.1575 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.100A1- | 4.1 | 0.1614 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.200A1- | 4.2 | 0.1654 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.300A1- | 4.3 | 0.1693 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.366A1- | 4.366 | 0.1719 | 11/64" | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.400A1- | 4.4 | 0.1732 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.500A1- | 4.5 | 0.1772 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.600A1- | 4.6 | 0.1811 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.700A1- | 4.7 | 0.185 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC160-08-04.763A1- | 4.763 | 0.1875 | 3/16" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-04.800A1- | 4.8 | 0.1890 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-04.900A1- | 4.9 | 0.1929 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.000A1- | 5 | 0.1969 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.100A1- | 5.1 | 0.2008 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.159A1- | 5.159 | 0.2031 | 13/64" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.200A1- | 5.2 | 0.2047 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.300A1- | 5.3 | 0.2087 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.400A1- | 5.4 | 0.2126 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.500A1- | 5.5 | 0.2165 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.556A1- | 5.556 | 0.2187 | 7/32" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.600A1- | 5.6 | 0.2205 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC160-08-05.700A1- | 5.7 | 0.2244 | | 48 | 97 | 57 | 36 | 6 | ☺ |

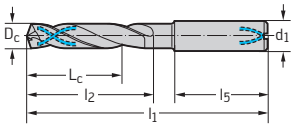
Ordering example for the grade WJ30ET: DC160-08-03.000A1-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

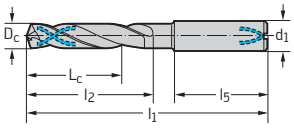



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-08-05.800A1- | 5.8 | 0.2283 | | 48 | 97 | 57 | 36 | 6 | |
| DC160-08-05.900A1- | 5.9 | 0.2323 | | 48 | 97 | 57 | 36 | 6 | |
| DC160-08-05.953A1- | 5.953 | 0.2344 | 15/64" | 48 | 97 | 57 | 36 | 6 | |
| DC160-08-06.000A1- | 6 | 0.2362 | | 48 | 97 | 57 | 36 | 6 | |
| DC160-08-06.100A1- | 6.1 | 0.2402 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.200A1- | 6.2 | 0.2441 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.300A1- | 6.3 | 0.2480 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.350A1- | 6.35 | 0.2500 | 1/4" | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.400A1- | 6.4 | 0.2520 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.500A1- | 6.5 | 0.2559 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.600A1- | 6.6 | 0.2598 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.700A1- | 6.7 | 0.2638 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.747A1- | 6.747 | 0.2656 | 17/64" | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.800A1- | 6.8 | 0.2677 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-06.900A1- | 6.9 | 0.2717 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-07.000A1- | 7 | 0.2756 | | 55 | 106 | 66 | 36 | 8 | |
| DC160-08-07.100A1- | 7.1 | 0.2795 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.144A1- | 7.144 | 0.2813 | 9/32" | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.200A1- | 7.2 | 0.2835 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.300A1- | 7.3 | 0.2874 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.400A1- | 7.4 | 0.2913 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.500A1- | 7.5 | 0.2953 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.541A1- | 7.541 | 0.2969 | 19/64" | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.600A1- | 7.6 | 0.2992 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.700A1- | 7.7 | 0.3031 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.800A1- | 7.8 | 0.3071 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.900A1- | 7.9 | 0.3110 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-07.938A1- | 7.938 | 0.3125 | 5/16" | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-08.000A1- | 8 | 0.3150 | | 64 | 116 | 76 | 36 | 8 | |
| DC160-08-08.100A1- | 8.1 | 0.3189 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.200A1- | 8.2 | 0.3228 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.300A1- | 8.3 | 0.3268 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.334A1- | 8.334 | 0.3281 | 21/64" | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.400A1- | 8.4 | 0.3307 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.500A1- | 8.5 | 0.3346 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.600A1- | 8.6 | 0.3386 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.700A1- | 8.7 | 0.3425 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.731A1- | 8.731 | 0.3437 | 11/32" | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.800A1- | 8.8 | 0.3465 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-08.900A1- | 8.9 | 0.3504 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.000A1- | 9 | 0.3543 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.100A1- | 9.1 | 0.3583 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.128A1- | 9.128 | 0.3594 | 23/64" | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.200A1- | 9.2 | 0.3622 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.300A1- | 9.3 | 0.3661 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.400A1- | 9.4 | 0.3701 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.500A1- | 9.5 | 0.3740 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.525A1- | 9.525 | 0.3750 | 3/8" | 80 | 139 | 95 | 40 | 10 | |

Ordering example for the grade WJ30ET: DC160-08-03.000A1-WJ30ET

## Tool



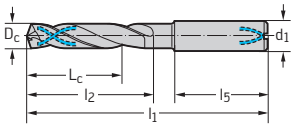

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-08-09.600A1- | 9.6 | 0.3780 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.700A1- | 9.7 | 0.3819 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.800A1- | 9.8 | 0.3858 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.900A1- | 9.9 | 0.3898 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-09.922A1- | 9.922 | 0.3906 | 25/64" | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-10.000A1- | 10 | 0.3937 | | 80 | 139 | 95 | 40 | 10 | |
| DC160-08-10.100A1- | 10.1 | 0.3976 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.200A1- | 10.2 | 0.4016 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.300A1- | 10.3 | 0.4055 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.319A1- | 10.319 | 0.4063 | 13/32" | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.400A1- | 10.4 | 0.4094 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.500A1- | 10.5 | 0.4134 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.600A1- | 10.6 | 0.4173 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.700A1- | 10.7 | 0.4213 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.716A1- | 10.716 | 0.4219 | 27/64" | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.800A1- | 10.8 | 0.4252 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-10.900A1- | 10.9 | 0.4291 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.000A1- | 11 | 0.4331 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.100A1- | 11.1 | 0.4370 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.113A1- | 11.113 | 0.4375 | 7/16" | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.200A1- | 11.2 | 0.4409 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.300A1- | 11.3 | 0.4449 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.400A1- | 11.4 | 0.4488 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.500A1- | 11.5 | 0.4528 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.509A1- | 11.509 | 0.4531 | 29/64" | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.600A1- | 11.6 | 0.4567 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.700A1- | 11.7 | 0.4606 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.800A1- | 11.8 | 0.4646 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.900A1- | 11.9 | 0.4685 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-11.906A1- | 11.906 | 0.4687 | 15/32" | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-12.000A1- | 12 | 0.4724 | | 96 | 163 | 114 | 45 | 12 | |
| DC160-08-12.303A1- | 12.303 | 0.4844 | 31/64" | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-12.500A1- | 12.5 | 0.4921 | | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-12.700A1- | 12.7 | 0.5000 | 1/2" | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-13.000A1- | 13 | 0.5118 | | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-13.494A1- | 13.494 | 0.5313 | 17/32" | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-13.500A1- | 13.5 | 0.5315 | | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-14.000A1- | 14 | 0.5512 | | 119 | 182 | 133 | 45 | 14 | |
| DC160-08-14.288A1- | 14.288 | 0.5625 | 9/16" | 136 | 204 | 152 | 48 | 16 | |
| DC160-08-14.500A1- | 14.5 | 0.5709 | | 136 | 204 | 152 | 48 | 16 | |
| DC160-08-15.000A1- | 15 | 0.5906 | | 136 | 204 | 152 | 48 | 16 | |
| DC160-08-15.500A1- | 15.5 | 0.6102 | | 136 | 204 | 152 | 48 | 16 | |
| DC160-08-15.875A1- | 15.875 | 0.6250 | 5/8" | 136 | 204 | 152 | 48 | 16 | |
| DC160-08-16.000A1- | 16 | 0.6299 | | 136 | 204 | 152 | 48 | 16 | |
| DC160-08-16.500A1- | 16.5 | 0.6496 | | 153 | 223 | 171 | 48 | 18 | |
| DC160-08-17.000A1- | 17 | 0.6693 | | 153 | 223 | 171 | 48 | 18 | |
| DC160-08-17.500A1- | 17.5 | 0.6890 | | 153 | 223 | 171 | 48 | 18 | |
| DC160-08-18.000A1- | 18 | 0.7087 | | 153 | 223 | 171 | 48 | 18 | |

Ordering example for the grade WJ30ET: DC160-08-03.000A1-WJ30ET

## Tool

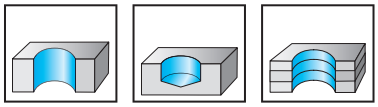


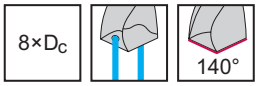

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-08-18.500A1- | 18.5 | 0.7283 | | 170 | 244 | 190 | 50 | 20 | ● |
| DC160-08-19.000A1- | 19 | 0.7480 | | 170 | 244 | 190 | 50 | 20 | ● |
| DC160-08-19.050A1- | 19.05 | 0.7500 | 3/4" | 170 | 244 | 190 | 50 | 20 | ● |
| DC160-08-19.500A1- | 19.5 | 0.7677 | | 170 | 244 | 190 | 50 | 20 | ● |
| DC160-08-20.000A1- | 20 | 0.7874 | | 170 | 244 | 190 | 50 | 20 | ● |

Ordering example for the grade WJ30ET: DC160-08-03.000A1-WJ30ET

# Solid carbide drills with coolant-through
# DC150 Perform

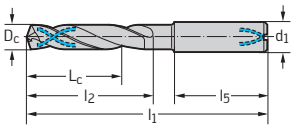





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30TA | ●● | ● | ●● | ●● | ●● | ● | ● |

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-08-03.000A1- | 3 | 0.1181 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.100A1- | 3.1 | 0.1220 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.175A1- | 3.175 | 0.1250 | 1/8" | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.200A1- | 3.2 | 0.1260 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.300A1- | 3.3 | 0.1299 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.400A1- | 3.4 | 0.1339 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.500A1- | 3.5 | 0.1378 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.572A1- | 3.572 | 0.1406 | 9/64" | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.600A1- | 3.6 | 0.1417 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.700A1- | 3.7 | 0.1457 | | 28 | 74 | 34 | 36 | 6 | ☺ |
| DC150-08-03.800A1- | 3.8 | 0.1496 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-03.900A1- | 3.9 | 0.1535 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-03.969A1- | 3.969 | 0.1563 | 5/32" | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.000A1- | 4 | 0.1575 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.100A1- | 4.1 | 0.1614 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.200A1- | 4.2 | 0.1654 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.300A1- | 4.3 | 0.1693 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.366A1- | 4.366 | 0.1719 | 11/64" | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.400A1- | 4.4 | 0.1732 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.500A1- | 4.5 | 0.1772 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.600A1- | 4.6 | 0.1811 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.700A1- | 4.7 | 0.1850 | | 37 | 85 | 45 | 36 | 6 | ☺ |
| DC150-08-04.763A1- | 4.763 | 0.1875 | 3/16" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-04.800A1- | 4.8 | 0.1890 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-04.900A1- | 4.9 | 0.1929 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.000A1- | 5 | 0.1969 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.100A1- | 5.1 | 0.2008 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.159A1- | 5.159 | 0.2031 | 13/64" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.200A1- | 5.2 | 0.2047 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.300A1- | 5.3 | 0.2087 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.400A1- | 5.4 | 0.2126 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.500A1- | 5.5 | 0.2165 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.556A1- | 5.556 | 0.2187 | 7/32" | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.600A1- | 5.6 | 0.2205 | | 48 | 97 | 57 | 36 | 6 | ☺ |
| DC150-08-05.700A1- | 5.7 | 0.2244 | | 48 | 97 | 57 | 36 | 6 | ☺ |

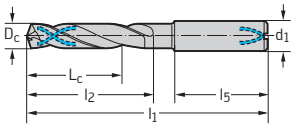
Ordering example for the grade WJ30TA: DC150-08-03.000A1-WJ30TA

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



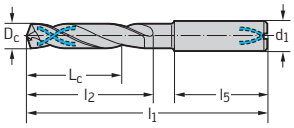

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-08-05.800A1- | 5.8 | 0.2283 | | 48 | 97 | 57 | 36 | 6 | |
| DC150-08-05.900A1- | 5.9 | 0.2323 | | 48 | 97 | 57 | 36 | 6 | |
| DC150-08-05.953A1- | 5.953 | 0.2344 | 15/64" | 48 | 97 | 57 | 36 | 6 | |
| DC150-08-06.000A1- | 6 | 0.2362 | | 48 | 97 | 57 | 36 | 6 | |
| DC150-08-06.100A1- | 6.1 | 0.2402 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.200A1- | 6.2 | 0.2441 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.300A1- | 6.3 | 0.2480 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.350A1- | 6.35 | 0.2500 | 1/4" | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.400A1- | 6.4 | 0.2520 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.500A1- | 6.5 | 0.2559 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.600A1- | 6.6 | 0.2598 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.700A1- | 6.7 | 0.2638 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.747A1- | 6.747 | 0.2656 | 17/64" | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.800A1- | 6.8 | 0.2677 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-06.900A1- | 6.9 | 0.2717 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-07.000A1- | 7 | 0.2756 | | 55 | 106 | 66 | 36 | 8 | |
| DC150-08-07.100A1- | 7.1 | 0.2795 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.144A1- | 7.144 | 0.2813 | 9/32" | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.200A1- | 7.2 | 0.2835 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.300A1- | 7.3 | 0.2874 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.400A1- | 7.4 | 0.2913 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.500A1- | 7.5 | 0.2953 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.541A1- | 7.541 | 0.2969 | 19/64" | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.600A1- | 7.6 | 0.2992 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.700A1- | 7.7 | 0.3031 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.800A1- | 7.8 | 0.3071 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.900A1- | 7.9 | 0.3110 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-07.938A1- | 7.938 | 0.3125 | 5/16" | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-08.000A1- | 8 | 0.3150 | | 64 | 116 | 76 | 36 | 8 | |
| DC150-08-08.100A1- | 8.1 | 0.3189 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.200A1- | 8.2 | 0.3228 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.300A1- | 8.3 | 0.3268 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.334A1- | 8.334 | 0.3281 | 21/64" | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.400A1- | 8.4 | 0.3307 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.500A1- | 8.5 | 0.3346 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.600A1- | 8.6 | 0.3386 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.700A1- | 8.7 | 0.3425 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.731A1- | 8.731 | 0.3437 | 11/32" | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.800A1- | 8.8 | 0.3465 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-08.900A1- | 8.9 | 0.3504 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.000A1- | 9 | 0.3543 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.100A1- | 9.1 | 0.3583 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.128A1- | 9.128 | 0.3594 | 23/64" | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.200A1- | 9.2 | 0.3622 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.300A1- | 9.3 | 0.3661 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.400A1- | 9.4 | 0.3701 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.500A1- | 9.5 | 0.3740 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.525A1- | 9.525 | 0.3750 | 3/8" | 80 | 139 | 95 | 40 | 10 | |

Ordering example for the grade WJ30TA: DC150-08-03.000A1-WJ30TA

B1

## Tool




DIN 6535 HA

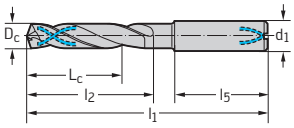
B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-08-09.600A1- | 9.6 | 0.3780 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.700A1- | 9.7 | 0.3819 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.800A1- | 9.8 | 0.3858 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.900A1- | 9.9 | 0.3898 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-09.922A1- | 9.922 | 0.3906 | 25/64" | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-10.000A1- | 10 | 0.3937 | | 80 | 139 | 95 | 40 | 10 | |
| DC150-08-10.100A1- | 10.1 | 0.3976 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.200A1- | 10.2 | 0.4016 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.300A1- | 10.3 | 0.4055 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.319A1- | 10.319 | 0.4063 | 13/32" | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.400A1- | 10.4 | 0.4094 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.500A1- | 10.5 | 0.4134 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.700A1- | 10.7 | 0.4213 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.716A1- | 10.716 | 0.4219 | 27/64" | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.800A1- | 10.8 | 0.4252 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-10.900A1- | 10.9 | 0.4291 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.000A1- | 11 | 0.4331 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.100A1- | 11.1 | 0.4370 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.113A1- | 11.113 | 0.4375 | 7/16" | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.200A1- | 11.2 | 0.4409 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.300A1- | 11.3 | 0.4449 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.500A1- | 11.5 | 0.4528 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.600A1- | 11.6 | 0.4567 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.700A1- | 11.7 | 0.4606 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.800A1- | 11.8 | 0.4646 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.900A1- | 11.9 | 0.4685 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-11.906A1- | 11.906 | 0.4687 | 15/32" | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-12.000A1- | 12 | 0.4724 | | 96 | 163 | 114 | 45 | 12 | |
| DC150-08-12.303A1- | 12.303 | 0.4844 | 31/64" | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-12.500A1- | 12.5 | 0.4921 | | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-12.700A1- | 12.7 | 0.5000 | 1/2" | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-13.000A1- | 13 | 0.5118 | | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-13.494A1- | 13.494 | 0.5313 | 17/32" | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-13.500A1- | 13.5 | 0.5315 | | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-14.000A1- | 14 | 0.5512 | | 119 | 182 | 133 | 45 | 14 | |
| DC150-08-14.288A1- | 14.288 | 0.5625 | 9/16" | 136 | 204 | 152 | 48 | 16 | |
| DC150-08-14.500A1- | 14.5 | 0.5709 | | 136 | 204 | 152 | 48 | 16 | |
| DC150-08-15.000A1- | 15 | 0.5906 | | 136 | 204 | 152 | 48 | 16 | |
| DC150-08-15.500A1- | 15.5 | 0.6102 | | 136 | 204 | 152 | 48 | 16 | |
| DC150-08-15.875A1- | 15.875 | 0.6250 | 5/8" | 136 | 204 | 152 | 48 | 16 | |
| DC150-08-16.000A1- | 16 | 0.6299 | | 136 | 204 | 152 | 48 | 16 | |
| DC150-08-16.500A1- | 16.5 | 0.6496 | | 153 | 223 | 171 | 48 | 18 | |
| DC150-08-17.000A1- | 17 | 0.6693 | | 153 | 223 | 171 | 48 | 18 | |
| DC150-08-17.500A1- | 17.5 | 0.6890 | | 153 | 223 | 171 | 48 | 18 | |
| DC150-08-18.000A1- | 18 | 0.7087 | | 153 | 223 | 171 | 48 | 18 | |
| DC150-08-18.500A1- | 18.5 | 0.7283 | | 170 | 244 | 190 | 50 | 20 | |
| DC150-08-19.000A1- | 19 | 0.7480 | | 170 | 244 | 190 | 50 | 20 | |
| DC150-08-19.050A1- | 19.05 | 0.7500 | 3/4" | 170 | 244 | 190 | 50 | 20 | |

Ordering example for the grade WJ30TA: DC150-08-03.000A1-WJ30TA

## Tool

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-08-19.500A1- | 19.5 | 0.7677 | | 170 | 244 | 190 | 50 | 20 | |
| DC150-08-20.000A1- | 20 | 0.7874 | | 170 | 244 | 190 | 50 | 20 | |




DIN 6535 HA

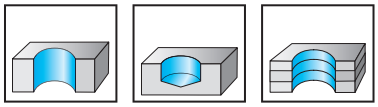
Ordering example for the grade WJ30TA: DC150-08-03.000A1-WJ30TA

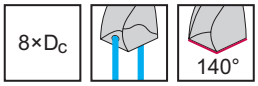
B1

# Solid carbide micro drills with coolant-through

## DB133 Supreme



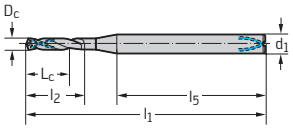





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | ●● | ●● | ●● | ●● | ● | ● |

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| DB133-08-00.700A1- | 0.7 | 0.0276 | | 6,9 | 50 | 8 | 35 | 3 | ☺ |
| DB133-08-00.750A1- | 0.75 | 0.0295 | | 7,8 | 50 | 9 | 34 | 3 | ☺ |
| DB133-08-00.794A1- | 0.794 | 0.0313 | 1/32" | 7,8 | 50 | 9 | 34 | 3 | ☺ |
| DB133-08-00.800A1- | 0.8 | 0.0315 | | 7,8 | 50 | 9 | 34 | 3 | ☺ |
| DB133-08-00.850A1- | 0.85 | 0.0335 | | 8,6 | 53 | 10 | 36 | 3 | ☺ |
| DB133-08-00.900A1- | 0.9 | 0.0354 | | 8,6 | 53 | 10 | 36 | 3 | ☺ |
| DB133-08-00.950A1- | 0.95 | 0.0374 | | 10,5 | 53 | 12 | 34 | 3 | ☺ |
| DB133-08-01.000A1- | 1 | 0.0394 | | 10,5 | 53 | 12 | 34 | 3 | ☺ |
| DB133-08-01.050A1- | 1.05 | 0.0413 | | 11 | 54 | 13 | 35 | 3 | ☺ |
| DB133-08-01.100A1- | 1.1 | 0.0433 | | 11 | 54 | 13 | 35 | 3 | ☺ |
| DB133-08-01.150A1- | 1.15 | 0.0453 | | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.191A1- | 1.191 | 0.0469 | 3/64" | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.200A1- | 1.2 | 0.0472 | | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.250A1- | 1.25 | 0.0492 | | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.300A1- | 1.3 | 0.0512 | | 13 | 57 | 15 | 36 | 3 | ☺ |
| DB133-08-01.350A1- | 1.35 | 0.0531 | | 13 | 57 | 16 | 35 | 3 | ☺ |
| DB133-08-01.400A1- | 1.4 | 0.0551 | | 13 | 57 | 16 | 35 | 3 | ☺ |
| DB133-08-01.450A1- | 1.45 | 0.0571 | | 14 | 57 | 17 | 34 | 3 | ☺ |
| DB133-08-01.500A1- | 1.5 | 0.0591 | | 14 | 57 | 17 | 34 | 3 | ☺ |
| DB133-08-01.550A1- | 1.55 | 0.0610 | | 15 | 60 | 18 | 37 | 3 | ☺ |
| DB133-08-01.588A1- | 1.588 | 0.0625 | 1/16" | 15 | 60 | 18 | 37 | 3 | ☺ |
| DB133-08-01.600A1- | 1.6 | 0.0630 | | 15 | 60 | 18 | 37 | 3 | ☺ |
| DB133-08-01.650A1- | 1.65 | 0.0650 | | 17 | 60 | 20 | 35 | 3 | ☺ |
| DB133-08-01.700A1- | 1.7 | 0.0669 | | 17 | 60 | 20 | 35 | 3 | ☺ |
| DB133-08-01.750A1- | 1.75 | 0.0689 | | 18 | 60 | 21 | 34 | 3 | ☺ |
| DB133-08-01.800A1- | 1.8 | 0.0709 | | 18 | 60 | 21 | 34 | 3 | ☺ |
| DB133-08-01.820A1- | 1.82 | 0.0717 | | 19 | 63 | 22 | 36 | 3 | ☺ |
| DB133-08-01.850A1- | 1.85 | 0.0728 | | 19 | 63 | 22 | 36 | 3 | ☺ |
| DB133-08-01.900A1- | 1.9 | 0.0748 | | 19 | 63 | 22 | 36 | 3 | ☺ |
| DB133-08-01.950A1- | 1.95 | 0.0768 | | 20 | 63 | 23 | 35 | 3 | ☺ |
| DB133-08-01.984A1- | 1.984 | 0.0781 | 5/64" | 20 | 63 | 23 | 35 | 3 | ☺ |
| ★ DB133-08-02.000A1- | 2 | 0.0787 | | 20 | 63 | 23 | 35 | 3 | ☹ |
| ★ DB133-08-02.050A1- | 2.05 | 0.0807 | | 20 | 63 | 24 | 35 | 3 | ☹ |
| ★ DB133-08-02.100A1- | 2.1 | 0.0827 | | 20 | 63 | 24 | 35 | 3 | ☹ |
| ★ DB133-08-02.150A1- | 2.15 | 0.0846 | | 21 | 63 | 25 | 34 | 3 | ☹ |

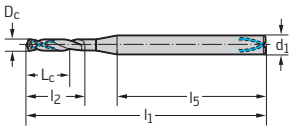
Ordering example for the grade WJ30ER: DB133-08-00.700A1-WJ30ER

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-08-02.200A1- | 2.2 | 0.0866 | | 21 | 63 | 25 | 34 | 3 | |
| ★ DB133-08-02.250A1- | 2.25 | 0.0886 | | 22 | 67 | 26 | 37 | 3 | |
| ★ DB133-08-02.300A1- | 2.3 | 0.0906 | | 22 | 67 | 26 | 37 | 3 | |
| ★ DB133-08-02.350A1- | 2.35 | 0.0925 | | 24 | 67 | 28 | 35 | 3 | |
| ★ DB133-08-02.381A1- | 2.381 | 0.0937 | 3/32" | 24 | 67 | 28 | 35 | 3 | |
| ★ DB133-08-02.400A1- | 2.4 | 0.0945 | | 24 | 67 | 28 | 35 | 3 | |
| ★ DB133-08-02.450A1- | 2.45 | 0.0965 | | 25 | 67 | 29 | 34 | 3 | |
| ★ DB133-08-02.500A1- | 2.5 | 0.0984 | | 25 | 67 | 29 | 34 | 3 | |
| ★ DB133-08-02.550A1- | 2.55 | 0.1004 | | 26 | 71 | 30 | 37 | 3 | |
| ★ DB133-08-02.600A1- | 2.6 | 0.1024 | | 26 | 71 | 30 | 37 | 3 | |
| ★ DB133-08-02.650A1- | 2.65 | 0.1043 | | 26 | 71 | 31 | 37 | 3 | |
| ★ DB133-08-02.700A1- | 2.7 | 0.1063 | | 26 | 71 | 31 | 37 | 3 | |
| ★ DB133-08-02.750A1- | 2.75 | 0.1083 | | 27 | 71 | 32 | 36 | 3 | |
| ★ DB133-08-02.778A1- | 2.778 | 0.1094 | 7/64" | 27 | 71 | 32 | 36 | 3 | |
| ★ DB133-08-02.800A1- | 2.8 | 0.1102 | | 27 | 71 | 32 | 36 | 3 | |
| ★ DB133-08-02.850A1- | 2.85 | 0.1122 | | 28 | 71 | 33 | 35 | 3 | |
| ★ DB133-08-02.900A1- | 2.9 | 0.1142 | | 28 | 71 | 33 | 35 | 3 | |
| ★ DB133-08-02.950A1- | 2.95 | 0.1161 | | 29 | 71 | 34 | 34 | 3 | |

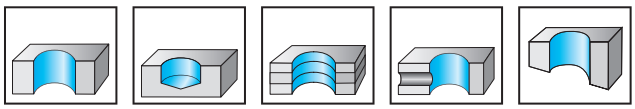
Ordering example for the grade WJ30ER: DB133-08-00.700A1-WJ30ER

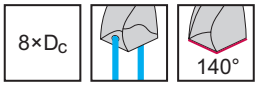
B1

# Solid carbide drills with coolant-through

## A6489DPP

## X-treme D8

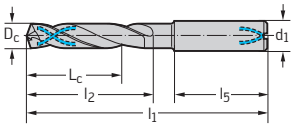





B1

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

### Tool




DIN 6535 HA

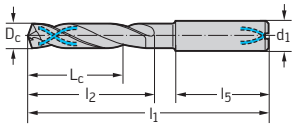
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6489DPP-3 | 3 | 0.1181 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.1 | 3.1 | 0.1220 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-1/8IN | 3.175 | 0.1250 | 1/8" | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.2 | 3.2 | 0.1260 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.3 | 3.3 | 0.1299 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.4 | 3.4 | 0.1339 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.5 | 3.5 | 0.1378 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-9/64IN | 3.572 | 0.1406 | 9/64" | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.6 | 3.6 | 0.1417 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.7 | 3.7 | 0.1457 | | 28 | 74 | 34 | 36 | 6 |
| A6489DPP-3.8 | 3.8 | 0.1496 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-3.9 | 3.9 | 0.1535 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-5/32IN | 3.969 | 0.1563 | 5/32" | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4 | 4 | 0.1575 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.1 | 4.1 | 0.1614 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.2 | 4.2 | 0.1654 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.3 | 4.3 | 0.1693 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-11/64IN | 4.366 | 0.1719 | 11/64" | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.4 | 4.4 | 0.1732 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.5 | 4.5 | 0.1772 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.6 | 4.6 | 0.1811 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-4.7 | 4.7 | 0.1850 | | 37 | 85 | 45 | 36 | 6 |
| A6489DPP-3/16IN | 4.763 | 0.1875 | 3/16" | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-4.8 | 4.8 | 0.1890 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-4.9 | 4.9 | 0.1929 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5 | 5 | 0.1969 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.1 | 5.1 | 0.2008 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-13/64IN | 5.159 | 0.2031 | 13/64" | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.2 | 5.2 | 0.2047 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.3 | 5.3 | 0.2087 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.4 | 5.4 | 0.2126 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.5 | 5.5 | 0.2165 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-7/32IN | 5.556 | 0.2187 | 7/32" | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.6 | 5.6 | 0.2205 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.7 | 5.7 | 0.2244 | | 48 | 97 | 57 | 36 | 6 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

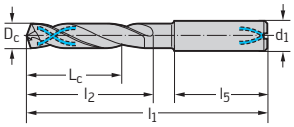
## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6489DPP-5.8 | 5.8 | 0.2283 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-5.9 | 5.9 | 0.2323 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-15/64IN | 5.953 | 0.2344 | 15/64" | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-6 | 6 | 0.2362 | | 48 | 97 | 57 | 36 | 6 |
| A6489DPP-6.1 | 6.1 | 0.2402 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.2 | 6.2 | 0.2441 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.3 | 6.3 | 0.2480 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-1/4IN | 6.35 | 0.2500 | 1/4" | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.4 | 6.4 | 0.2520 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.5 | 6.5 | 0.2559 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.6 | 6.6 | 0.2598 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.7 | 6.7 | 0.2638 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-17/64IN | 6.747 | 0.2656 | 17/64" | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.8 | 6.8 | 0.2677 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-6.9 | 6.9 | 0.2717 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-7 | 7 | 0.2756 | | 55 | 106 | 66 | 36 | 8 |
| A6489DPP-7.1 | 7.1 | 0.2795 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-9/32IN | 7.144 | 0.2813 | 9/32" | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.2 | 7.2 | 0.2835 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.3 | 7.3 | 0.2874 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.4 | 7.4 | 0.2913 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.5 | 7.5 | 0.2953 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-19/64IN | 7.541 | 0.2969 | 19/64" | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.6 | 7.6 | 0.2992 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.7 | 7.7 | 0.3031 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.8 | 7.8 | 0.3071 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-7.9 | 7.9 | 0.3110 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-5/16IN | 7.938 | 0.3125 | 5/16" | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-8 | 8 | 0.3150 | | 64 | 116 | 76 | 36 | 8 |
| A6489DPP-8.1 | 8.1 | 0.3189 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.2 | 8.2 | 0.3228 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.3 | 8.3 | 0.3268 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-21/64IN | 8.334 | 0.3281 | 21/64" | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.4 | 8.4 | 0.3307 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.5 | 8.5 | 0.3346 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.6 | 8.6 | 0.3386 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.7 | 8.7 | 0.3425 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-11/32IN | 8.731 | 0.3437 | 11/32" | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.8 | 8.8 | 0.3465 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-8.9 | 8.9 | 0.3504 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9 | 9 | 0.3543 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.1 | 9.1 | 0.3583 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-23/64IN | 9.128 | 0.3594 | 23/64" | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.2 | 9.2 | 0.3622 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.3 | 9.3 | 0.3661 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.4 | 9.4 | 0.3701 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.5 | 9.5 | 0.3740 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-3/8IN | 9.525 | 0.3750 | 3/8" | 80 | 139 | 95 | 40 | 10 |

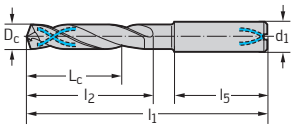
## Tool




DIN 6535 HA



| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6489DPP-9.6 | 9.6 | 0.3780 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.7 | 9.7 | 0.3819 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.8 | 9.8 | 0.3858 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-9.9 | 9.9 | 0.3898 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-25/64IN | 9.922 | 0.3906 | 25/64" | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-10 | 10 | 0.3937 | | 80 | 139 | 95 | 40 | 10 |
| A6489DPP-10.1 | 10.1 | 0.3976 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.2 | 10.2 | 0.4016 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.3 | 10.3 | 0.4055 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-13/32IN | 10.319 | 0.4063 | 13/32" | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.4 | 10.4 | 0.4094 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.5 | 10.5 | 0.4134 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.6 | 10.6 | 0.4173 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.7 | 10.7 | 0.4213 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-27/64IN | 10.716 | 0.4219 | 27/64" | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.8 | 10.8 | 0.4252 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-10.9 | 10.9 | 0.4291 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11 | 11 | 0.4331 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.1 | 11.1 | 0.4370 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-7/16IN | 11.113 | 0.4375 | 7/16" | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.2 | 11.2 | 0.4409 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.3 | 11.3 | 0.4449 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.4 | 11.4 | 0.4488 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.5 | 11.5 | 0.4528 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-29/64IN | 11.509 | 0.4531 | 29/64" | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.6 | 11.6 | 0.4567 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.7 | 11.7 | 0.4606 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.8 | 11.8 | 0.4646 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-11.9 | 11.9 | 0.4685 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-15/32IN | 11.906 | 0.4687 | 15/32" | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-12 | 12 | 0.4724 | | 96 | 163 | 114 | 45 | 12 |
| A6489DPP-31/64IN | 12.303 | 0.4844 | 31/64" | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-12.5 | 12.5 | 0.4921 | | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-1/2IN | 12.7 | 0.5000 | 1/2" | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-13 | 13 | 0.5118 | | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-17/32IN | 13.494 | 0.5313 | 17/32" | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-13.5 | 13.5 | 0.5315 | | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-14 | 14 | 0.5512 | | 119 | 182 | 133 | 45 | 14 |
| A6489DPP-9/16IN | 14.288 | 0.5625 | 9/16" | 136 | 204 | 152 | 48 | 16 |
| A6489DPP-14.5 | 14.5 | 0.5709 | | 136 | 204 | 152 | 48 | 16 |
| A6489DPP-15 | 15 | 0.5906 | | 136 | 204 | 152 | 48 | 16 |
| A6489DPP-15.5 | 15.5 | 0.6102 | | 136 | 204 | 152 | 48 | 16 |
| A6489DPP-5/8IN | 15.875 | 0.6250 | 5/8" | 136 | 204 | 152 | 48 | 16 |
| A6489DPP-16 | 16 | 0.6299 | | 136 | 204 | 152 | 48 | 16 |
| A6489DPP-16.5 | 16.5 | 0.6496 | | 153 | 223 | 171 | 48 | 18 |
| A6489DPP-17 | 17 | 0.6693 | | 153 | 223 | 171 | 48 | 18 |
| A6489DPP-17.5 | 17.5 | 0.6890 | | 153 | 223 | 171 | 48 | 18 |
| A6489DPP-18 | 18 | 0.7087 | | 153 | 223 | 171 | 48 | 18 |
| A6489DPP-18.5 | 18.5 | 0.7283 | | 170 | 244 | 190 | 50 | 20 |
| A6489DPP-19 | 19 | 0.7480 | | 170 | 244 | 190 | 50 | 20 |
| A6489DPP-3/4IN | 19.05 | 0.7500 | 3/4" | 170 | 244 | 190 | 50 | 20 |
| A6489DPP-19.5 | 19.5 | 0.7677 | | 170 | 244 | 190 | 50 | 20 |
| A6489DPP-20 | 20 | 0.7874 | | 170 | 244 | 190 | 50 | 20 |



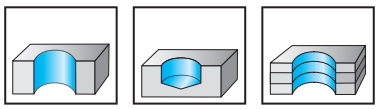

DIN 6535 HA

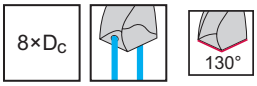
# Solid carbide drills with coolant-through

## A3486TIP

## Alpha® 44



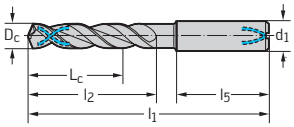





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TIP | ●● | ● | ● | ●● | ● | | ● |

B1

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|
| A3486TIP-5 | 5 | 0.1969 | 54 | 101 | 63 | 36 | 6 |
| A3486TIP-5.2 | 5.2 | 0.2047 | 54 | 101 | 63 | 36 | 6 |
| A3486TIP-5.5 | 5.5 | 0.2165 | 54 | 101 | 63 | 36 | 6 |
| A3486TIP-5.8 | 5.8 | 0.2283 | 54 | 101 | 63 | 36 | 6 |
| A3486TIP-6 | 6 | 0.2362 | 54 | 101 | 63 | 36 | 6 |
| A3486TIP-6.1 | 6.1 | 0.2402 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-6.5 | 6.5 | 0.2559 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-6.6 | 6.6 | 0.2598 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-6.8 | 6.8 | 0.2677 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-7 | 7 | 0.2756 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-7.5 | 7.5 | 0.2953 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-7.8 | 7.8 | 0.3071 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-8 | 8 | 0.3150 | 67 | 117 | 79 | 36 | 8 |
| A3486TIP-8.5 | 8.5 | 0.3346 | 76 | 133 | 91 | 40 | 10 |
| A3486TIP-9 | 9 | 0.3543 | 76 | 133 | 91 | 40 | 10 |

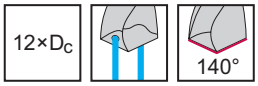
**WALTER SELECT**

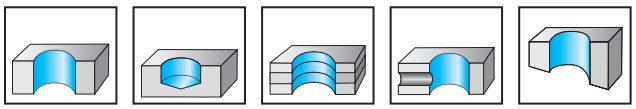
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through
## DC170 Supreme



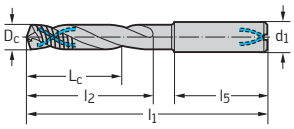


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

### Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-12-03.000A1- | 3 | 0.1181 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.100A1- | 3.1 | 0.1220 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.175A1- | 3.175 | 0.1250 | 1/8" | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.200A1- | 3.2 | 0.1260 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.300A1- | 3.3 | 0.1299 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.400A1- | 3.4 | 0.1339 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.500A1- | 3.5 | 0.1378 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.572A1- | 3.572 | 0.1406 | 9/64" | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.600A1- | 3.6 | 0.1417 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.700A1- | 3.7 | 0.1457 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC170-12-03.800A1- | 3.8 | 0.1496 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-03.900A1- | 3.9 | 0.1535 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-03.969A1- | 3.969 | 0.1563 | 5/32" | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.000A1- | 4 | 0.1575 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.100A1- | 4.1 | 0.1614 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.200A1- | 4.2 | 0.1654 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.300A1- | 4.3 | 0.1693 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.366A1- | 4.366 | 0.1719 | 11/64" | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.400A1- | 4.4 | 0.1732 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.500A1- | 4.5 | 0.1772 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.600A1- | 4.6 | 0.1811 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.700A1- | 4.7 | 0.1850 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC170-12-04.763A1- | 4.763 | 0.1875 | 3/16" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-04.800A1- | 4.8 | 0.1890 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-04.900A1- | 4.9 | 0.1929 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.000A1- | 5 | 0.1969 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.100A1- | 5.1 | 0.2008 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.159A1- | 5.159 | 0.2031 | 13/64" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.200A1- | 5.2 | 0.2047 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.300A1- | 5.3 | 0.2087 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.400A1- | 5.4 | 0.2126 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.500A1- | 5.5 | 0.2165 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.550A1- | 5.55 | 0.2185 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.556A1- | 5.556 | 0.2187 | 7/32" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC170-12-05.600A1- | 5.6 | 0.2205 | | 74 | 121 | 83 | 36 | 6 | ☺ |

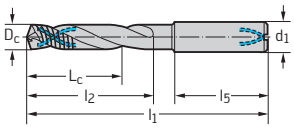
Ordering example for the grade WJ30EJ: DC170-12-03.000A1-WJ30EJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

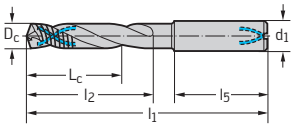



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-12-05.700A1- | 5.7 | 0.2244 | | 74 | 121 | 83 | 36 | 6 | |
| DC170-12-05.800A1- | 5.8 | 0.2283 | | 74 | 121 | 83 | 36 | 6 | |
| DC170-12-05.900A1- | 5.9 | 0.2323 | | 74 | 121 | 83 | 36 | 6 | |
| DC170-12-06.000A1- | 6 | 0.2362 | | 74 | 121 | 83 | 36 | 6 | |
| DC170-12-06.100A1- | 6.1 | 0.2402 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.200A1- | 6.2 | 0.2441 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.300A1- | 6.3 | 0.2480 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.350A1- | 6.35 | 0.2500 | 1/4" | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.400A1- | 6.4 | 0.2520 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.500A1- | 6.5 | 0.2559 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.600A1- | 6.6 | 0.2598 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.747A1- | 6.747 | 0.2656 | 17/64" | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.800A1- | 6.8 | 0.2677 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-06.900A1- | 6.9 | 0.2717 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.000A1- | 7 | 0.2756 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.100A1- | 7.1 | 0.2795 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.144A1- | 7.144 | 0.2813 | 9/32" | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.300A1- | 7.3 | 0.2874 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.400A1- | 7.4 | 0.2913 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.500A1- | 7.5 | 0.2953 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.541A1- | 7.541 | 0.2969 | 19/64" | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.800A1- | 7.8 | 0.3071 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.900A1- | 7.9 | 0.3110 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-07.938A1- | 7.938 | 0.3125 | 5/16" | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-08.000A1- | 8 | 0.3150 | | 98 | 148 | 110 | 36 | 8 | |
| DC170-12-08.100A1- | 8.1 | 0.3189 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.200A1- | 8.2 | 0.3228 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.300A1- | 8.3 | 0.3268 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.400A1- | 8.4 | 0.3307 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.500A1- | 8.5 | 0.3346 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.600A1- | 8.6 | 0.3386 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.700A1- | 8.7 | 0.3425 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.731A1- | 8.731 | 0.3437 | 11/32" | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-08.800A1- | 8.8 | 0.3465 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.000A1- | 9 | 0.3543 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.128A1- | 9.128 | 0.3594 | 23/64" | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.300A1- | 9.3 | 0.3661 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.500A1- | 9.5 | 0.3740 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.525A1- | 9.525 | 0.3750 | 3/8" | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.600A1- | 9.6 | 0.3780 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.700A1- | 9.7 | 0.3819 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.800A1- | 9.8 | 0.3858 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-09.922A1- | 9.922 | 0.3906 | 25/64" | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-10.000A1- | 10 | 0.3937 | | 123 | 180 | 138 | 40 | 10 | |
| DC170-12-10.100A1- | 10.1 | 0.3976 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-10.200A1- | 10.2 | 0.4016 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-10.300A1- | 10.3 | 0.4055 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-10.319A1- | 10.319 | 0.4063 | 13/32" | 140 | 206 | 158 | 45 | 12 | |

Ordering example for the grade WJ30EJ: DC170-12-03.000A1-WJ30EJ

## Tool



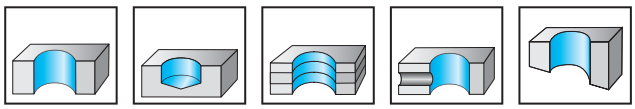

DIN 6535 HA

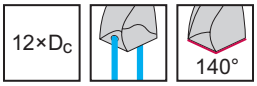
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-12-10.400A1- | 10.4 | 0.4094 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-10.500A1- | 10.5 | 0.4134 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.000A1- | 11 | 0.4331 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.100A1- | 11.1 | 0.4370 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.113A1- | 11.113 | 0.4375 | 7/16" | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.200A1- | 11.2 | 0.4409 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.500A1- | 11.5 | 0.4528 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.509A1- | 11.509 | 0.4531 | 29/64" | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.700A1- | 11.7 | 0.4606 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.800A1- | 11.8 | 0.4646 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-11.906A1- | 11.906 | 0.4687 | 15/32" | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-12.000A1- | 12 | 0.4724 | | 140 | 206 | 158 | 45 | 12 | |
| DC170-12-12.200A1- | 12.2 | 0.4803 | | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-12.303A1- | 12.303 | 0.4844 | 31/64" | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-12.500A1- | 12.5 | 0.4921 | | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-12.600A1- | 12.6 | 0.4961 | | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-12.700A1- | 12.7 | 0.5000 | 1/2" | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-13.000A1- | 13 | 0.5118 | | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-13.494A1- | 13.494 | 0.5313 | 17/32" | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-13.500A1- | 13.5 | 0.5315 | | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-14.000A1- | 14 | 0.5512 | | 168 | 230 | 182 | 45 | 14 | |
| DC170-12-14.288A1- | 14.288 | 0.5625 | 9/16" | 192 | 260 | 208 | 48 | 16 | |
| DC170-12-14.500A1- | 14.5 | 0.5709 | | 192 | 260 | 208 | 48 | 16 | |
| DC170-12-15.000A1- | 15 | 0.5906 | | 192 | 260 | 208 | 48 | 16 | |
| DC170-12-15.500A1- | 15.5 | 0.6102 | | 192 | 260 | 208 | 48 | 16 | |
| DC170-12-15.875A1- | 15.875 | 0.6250 | 5/8" | 192 | 260 | 208 | 48 | 16 | |
| DC170-12-16.000A1- | 16 | 0.6299 | | 192 | 260 | 208 | 48 | 16 | |
| DC170-12-16.500A1- | 16.5 | 0.6496 | | 216 | 285 | 234 | 48 | 18 | |
| DC170-12-17.000A1- | 17 | 0.6693 | | 216 | 285 | 234 | 48 | 18 | |
| DC170-12-17.500A1- | 17.5 | 0.6890 | | 216 | 285 | 234 | 48 | 18 | |
| DC170-12-18.000A1- | 18 | 0.7087 | | 216 | 285 | 234 | 48 | 18 | |
| DC170-12-19.000A1- | 19 | 0.7480 | | 238 | 310 | 258 | 50 | 20 | |
| DC170-12-19.500A1- | 19.5 | 0.7677 | | 238 | 310 | 258 | 50 | 20 | |
| DC170-12-20.000A1- | 20 | 0.7874 | | 238 | 310 | 258 | 50 | 20 | |

Ordering example for the grade WJ30EJ: DC170-12-03.000A1-WJ30EJ

# Solid carbide drills with coolant-through
## DC160 Advance
## X-treme Evo



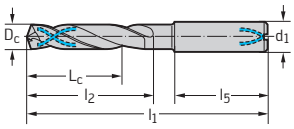





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EU | ●● | ● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-12-03.000A1- | 3 | 0.1181 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.100A1- | 3.1 | 0.1220 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.175A1- | 3.175 | 0.1250 | 1/8" | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.200A1- | 3.2 | 0.1260 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.300A1- | 3.3 | 0.1299 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.400A1- | 3.4 | 0.1339 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.500A1- | 3.5 | 0.1378 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.572A1- | 3.572 | 0.1406 | 9/64" | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.600A1- | 3.6 | 0.1417 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.700A1- | 3.7 | 0.1457 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC160-12-03.800A1- | 3.8 | 0.1496 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-03.900A1- | 3.9 | 0.1535 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-03.969A1- | 3.969 | 0.1563 | 5/32" | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.000A1- | 4 | 0.1575 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.100A1- | 4.1 | 0.1614 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.200A1- | 4.2 | 0.1654 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.300A1- | 4.3 | 0.1693 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.366A1- | 4.366 | 0.1719 | 11/64" | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.400A1- | 4.4 | 0.1732 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.500A1- | 4.5 | 0.1772 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.600A1- | 4.6 | 0.1811 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.700A1- | 4.7 | 0.1850 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC160-12-04.763A1- | 4.763 | 0.1875 | 3/16" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-04.800A1- | 4.8 | 0.1890 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-04.900A1- | 4.9 | 0.1929 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.000A1- | 5 | 0.1969 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.100A1- | 5.1 | 0.2008 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.159A1- | 5.159 | 0.2031 | 13/64" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.200A1- | 5.2 | 0.2047 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.300A1- | 5.3 | 0.2087 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.400A1- | 5.4 | 0.2126 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.500A1- | 5.5 | 0.2165 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.550A1- | 5.55 | 0.2185 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.556A1- | 5.556 | 0.2187 | 7/32" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC160-12-05.600A1- | 5.6 | 0.2205 | | 74 | 121 | 83 | 36 | 6 | ☺ |

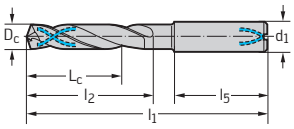
Ordering example for the grade WJ30EU: DC160-12-03.000A1-WJ30EU

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



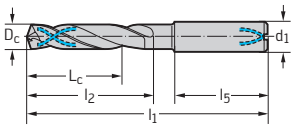

DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-12-05.700A1- | 5.7 | 0.2244 | | 74 | 121 | 83 | 36 | 6 | |
| DC160-12-05.800A1- | 5.8 | 0.2283 | | 74 | 121 | 83 | 36 | 6 | |
| DC160-12-05.900A1- | 5.9 | 0.2323 | | 74 | 121 | 83 | 36 | 6 | |
| DC160-12-06.000A1- | 6 | 0.2362 | | 74 | 121 | 83 | 36 | 6 | |
| DC160-12-06.100A1- | 6.1 | 0.2402 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.200A1- | 6.2 | 0.2441 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.300A1- | 6.3 | 0.2480 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.350A1- | 6.35 | 0.2500 | 1/4" | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.400A1- | 6.4 | 0.2520 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.500A1- | 6.5 | 0.2559 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.600A1- | 6.6 | 0.2598 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.700A1- | 6.7 | 0.2638 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.747A1- | 6.747 | 0.2656 | 17/64" | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.800A1- | 6.8 | 0.2677 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-06.900A1- | 6.9 | 0.2717 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.000A1- | 7 | 0.2756 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.100A1- | 7.1 | 0.2795 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.144A1- | 7.144 | 0.2813 | 9/32" | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.200A1- | 7.2 | 0.2835 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.300A1- | 7.3 | 0.2874 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.400A1- | 7.4 | 0.2913 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.500A1- | 7.5 | 0.2953 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.541A1- | 7.541 | 0.2969 | 19/64" | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.800A1- | 7.8 | 0.3071 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.900A1- | 7.9 | 0.3110 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-07.938A1- | 7.938 | 0.3125 | 5/16" | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-08.000A1- | 8 | 0.3150 | | 98 | 148 | 110 | 36 | 8 | |
| DC160-12-08.100A1- | 8.1 | 0.3189 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.200A1- | 8.2 | 0.3228 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.300A1- | 8.3 | 0.3268 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.400A1- | 8.4 | 0.3307 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.500A1- | 8.5 | 0.3346 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.600A1- | 8.6 | 0.3386 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.700A1- | 8.7 | 0.3425 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.731A1- | 8.731 | 0.3437 | 11/32" | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-08.800A1- | 8.8 | 0.3465 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.000A1- | 9 | 0.3543 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.128A1- | 9.128 | 0.3594 | 23/64" | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.200A1- | 9.2 | 0.3622 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.300A1- | 9.3 | 0.3661 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.500A1- | 9.5 | 0.3740 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.525A1- | 9.525 | 0.3750 | 3/8" | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.600A1- | 9.6 | 0.3780 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.700A1- | 9.7 | 0.3819 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.800A1- | 9.8 | 0.3858 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-09.922A1- | 9.922 | 0.3906 | 25/64" | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-10.000A1- | 10 | 0.3937 | | 123 | 180 | 138 | 40 | 10 | |
| DC160-12-10.100A1- | 10.1 | 0.3976 | | 140 | 206 | 158 | 45 | 12 | |

Ordering example for the grade WJ30EU: DC160-12-03.000A1-WJ30EU

## Tool



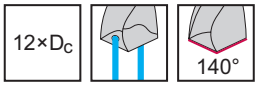

DIN 6535 HA

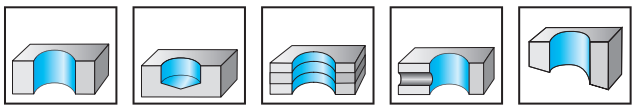
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-12-10.200A1- | 10.2 | 0.4016 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-10.300A1- | 10.3 | 0.4055 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-10.319A1- | 10.319 | 0.4063 | 13/32" | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-10.400A1- | 10.4 | 0.4094 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-10.500A1- | 10.5 | 0.4134 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-10.716A1- | 10.716 | 0.4219 | 27/64" | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-10.800A1- | 10.8 | 0.4252 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.000A1- | 11 | 0.4331 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.100A1- | 11.1 | 0.4370 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.113A1- | 11.113 | 0.4375 | 7/16" | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.200A1- | 11.2 | 0.4409 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.500A1- | 11.5 | 0.4528 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.509A1- | 11.509 | 0.4531 | 29/64" | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.700A1- | 11.7 | 0.4606 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.800A1- | 11.8 | 0.4646 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-11.906A1- | 11.906 | 0.4687 | 15/32" | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-12.000A1- | 12 | 0.4724 | | 140 | 206 | 158 | 45 | 12 | |
| DC160-12-12.100A1- | 12.1 | 0.4764 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-12.200A1- | 12.2 | 0.4803 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-12.300A1- | 12.3 | 0.4843 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-12.303A1- | 12.303 | 0.4844 | 31/64" | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-12.500A1- | 12.5 | 0.4921 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-12.600A1- | 12.6 | 0.4961 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-12.700A1- | 12.7 | 0.5000 | 1/2" | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-13.000A1- | 13 | 0.5118 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-13.494A1- | 13.494 | 0.5313 | 17/32" | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-13.500A1- | 13.5 | 0.5315 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-14.000A1- | 14 | 0.5512 | | 168 | 230 | 182 | 45 | 14 | |
| DC160-12-14.288A1- | 14.288 | 0.5625 | 9/16" | 192 | 260 | 208 | 48 | 16 | |
| DC160-12-14.500A1- | 14.5 | 0.5709 | | 192 | 260 | 208 | 48 | 16 | |
| DC160-12-15.000A1- | 15 | 0.5906 | | 192 | 260 | 208 | 48 | 16 | |
| DC160-12-15.500A1- | 15.5 | 0.6102 | | 192 | 260 | 208 | 48 | 16 | |
| DC160-12-15.875A1- | 15.875 | 0.6250 | 5/8" | 192 | 260 | 208 | 48 | 16 | |
| DC160-12-16.000A1- | 16 | 0.6299 | | 192 | 260 | 208 | 48 | 16 | |
| DC160-12-16.500A1- | 16.5 | 0.6496 | | 216 | 285 | 234 | 48 | 18 | |
| DC160-12-17.000A1- | 17 | 0.6693 | | 216 | 285 | 234 | 48 | 18 | |
| DC160-12-17.500A1- | 17.5 | 0.6890 | | 216 | 285 | 234 | 48 | 18 | |
| DC160-12-18.000A1- | 18 | 0.7087 | | 216 | 285 | 234 | 48 | 18 | |
| DC160-12-18.500A1- | 18.5 | 0.7283 | | 238 | 310 | 258 | 50 | 20 | |
| DC160-12-19.000A1- | 19 | 0.7480 | | 238 | 310 | 258 | 50 | 20 | |
| DC160-12-19.500A1- | 19.5 | 0.7677 | | 238 | 310 | 258 | 50 | 20 | |
| DC160-12-20.000A1- | 20 | 0.7874 | | 238 | 310 | 258 | 50 | 20 | |

Ordering example for the grade WJ30EU: DC160-12-03.000A1-WJ30EU

# Solid carbide drills with coolant-through
# DC150 Perform



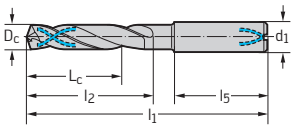


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30TA | ●● | ● | ●● | ●● | ●● | ●● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-12-03.000A1- | 3 | 0.1181 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.100A1- | 3.1 | 0.1220 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.175A1- | 3.175 | 0.1250 | 1/8" | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.200A1- | 3.2 | 0.1260 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.300A1- | 3.3 | 0.1299 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.400A1- | 3.4 | 0.1339 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.500A1- | 3.5 | 0.1378 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.572A1- | 3.572 | 0.1406 | 9/64" | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.600A1- | 3.6 | 0.1417 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.700A1- | 3.7 | 0.1457 | | 48 | 92 | 54 | 36 | 6 | ☺ |
| DC150-12-03.800A1- | 3.8 | 0.1496 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-03.900A1- | 3.9 | 0.1535 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-03.969A1- | 3.969 | 0.1563 | 5/32" | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.000A1- | 4 | 0.1575 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.100A1- | 4.1 | 0.1614 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.200A1- | 4.2 | 0.1654 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.300A1- | 4.3 | 0.1693 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.366A1- | 4.366 | 0.1719 | 11/64" | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.400A1- | 4.4 | 0.1732 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.500A1- | 4.5 | 0.1772 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.600A1- | 4.6 | 0.1811 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.700A1- | 4.7 | 0.1850 | | 56 | 102 | 64 | 36 | 6 | ☺ |
| DC150-12-04.763A1- | 4.763 | 0.1875 | 3/16" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-04.800A1- | 4.8 | 0.1890 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-04.900A1- | 4.9 | 0.1929 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.000A1- | 5 | 0.1969 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.100A1- | 5.1 | 0.2008 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.159A1- | 5.159 | 0.2031 | 13/64" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.200A1- | 5.2 | 0.2047 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.300A1- | 5.3 | 0.2087 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.400A1- | 5.4 | 0.2126 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.500A1- | 5.5 | 0.2165 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.550A1- | 5.55 | 0.2185 | | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.556A1- | 5.556 | 0.2187 | 7/32" | 74 | 121 | 83 | 36 | 6 | ☺ |
| DC150-12-05.600A1- | 5.6 | 0.2205 | | 74 | 121 | 83 | 36 | 6 | ☺ |

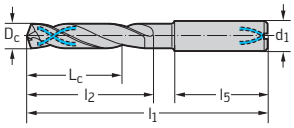
Ordering example for the grade WJ30TA: DC150-12-03.000A1-WJ30TA

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

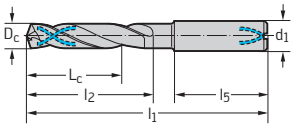



DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-12-05.700A1- | 5.7 | 0.2244 | | 74 | 121 | 83 | 36 | 6 | |
| DC150-12-05.800A1- | 5.8 | 0.2283 | | 74 | 121 | 83 | 36 | 6 | |
| DC150-12-05.900A1- | 5.9 | 0.2323 | | 74 | 121 | 83 | 36 | 6 | |
| DC150-12-06.000A1- | 6 | 0.2362 | | 74 | 121 | 83 | 36 | 6 | |
| DC150-12-06.100A1- | 6.1 | 0.2402 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.200A1- | 6.2 | 0.2441 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.300A1- | 6.3 | 0.2480 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.350A1- | 6.35 | 0.2500 | 1/4" | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.400A1- | 6.4 | 0.2520 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.500A1- | 6.5 | 0.2559 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.600A1- | 6.6 | 0.2598 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.700A1- | 6.7 | 0.2638 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.747A1- | 6.747 | 0.2656 | 17/64" | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.800A1- | 6.8 | 0.2677 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-06.900A1- | 6.9 | 0.2717 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.000A1- | 7 | 0.2756 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.100A1- | 7.1 | 0.2795 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.144A1- | 7.144 | 0.2813 | 9/32" | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.200A1- | 7.2 | 0.2835 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.300A1- | 7.3 | 0.2874 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.400A1- | 7.4 | 0.2913 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.500A1- | 7.5 | 0.2953 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.541A1- | 7.541 | 0.2969 | 19/64" | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.800A1- | 7.8 | 0.3071 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.900A1- | 7.9 | 0.3110 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-07.938A1- | 7.938 | 0.3125 | 5/16" | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-08.000A1- | 8 | 0.3150 | | 98 | 148 | 110 | 36 | 8 | |
| DC150-12-08.100A1- | 8.1 | 0.3189 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.200A1- | 8.2 | 0.3228 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.300A1- | 8.3 | 0.3268 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.400A1- | 8.4 | 0.3307 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.500A1- | 8.5 | 0.3346 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.600A1- | 8.6 | 0.3386 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.700A1- | 8.7 | 0.3425 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.731A1- | 8.731 | 0.3437 | 11/32" | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-08.800A1- | 8.8 | 0.3465 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.000A1- | 9 | 0.3543 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.128A1- | 9.128 | 0.3594 | 23/64" | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.200A1- | 9.2 | 0.3622 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.300A1- | 9.3 | 0.3661 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.500A1- | 9.5 | 0.3740 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.525A1- | 9.525 | 0.3750 | 3/8" | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.600A1- | 9.6 | 0.3780 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.700A1- | 9.7 | 0.3819 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.800A1- | 9.8 | 0.3858 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-09.922A1- | 9.922 | 0.3906 | 25/64" | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-10.000A1- | 10 | 0.3937 | | 123 | 180 | 138 | 40 | 10 | |
| DC150-12-10.100A1- | 10.1 | 0.3976 | | 140 | 206 | 158 | 45 | 12 | |

Ordering example for the grade WJ30TA: DC150-12-03.000A1-WJ30TA

## Tool




DIN 6535 HA

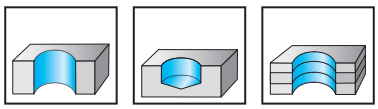
B1

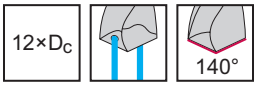
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-12-10.200A1- | 10.2 | 0.4016 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-10.300A1- | 10.3 | 0.4055 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-10.319A1- | 10.319 | 0.4063 | 13/32" | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-10.500A1- | 10.5 | 0.4134 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-10.716A1- | 10.716 | 0.4219 | 27/64" | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-10.800A1- | 10.8 | 0.4252 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.000A1- | 11 | 0.4331 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.100A1- | 11.1 | 0.4370 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.113A1- | 11.113 | 0.4375 | 7/16" | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.200A1- | 11.2 | 0.4409 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.500A1- | 11.5 | 0.4528 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.509A1- | 11.509 | 0.4531 | 29/64" | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.700A1- | 11.7 | 0.4606 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.800A1- | 11.8 | 0.4646 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-11.906A1- | 11.906 | 0.4687 | 15/32" | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-12.000A1- | 12 | 0.4724 | | 140 | 206 | 158 | 45 | 12 | |
| DC150-12-12.100A1- | 12.1 | 0.4764 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-12.200A1- | 12.2 | 0.4803 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-12.300A1- | 12.3 | 0.4843 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-12.303A1- | 12.303 | 0.4844 | 31/64" | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-12.500A1- | 12.5 | 0.4921 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-12.600A1- | 12.6 | 0.4961 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-12.700A1- | 12.7 | 0.5000 | 1/2" | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-13.000A1- | 13 | 0.5118 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-13.494A1- | 13.494 | 0.5313 | 17/32" | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-13.500A1- | 13.5 | 0.5315 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-14.000A1- | 14 | 0.5512 | | 168 | 230 | 182 | 45 | 14 | |
| DC150-12-14.288A1- | 14.288 | 0.5625 | 9/16" | 192 | 260 | 208 | 48 | 16 | |
| DC150-12-14.500A1- | 14.5 | 0.5709 | | 192 | 260 | 208 | 48 | 16 | |
| DC150-12-15.000A1- | 15 | 0.5906 | | 192 | 260 | 208 | 48 | 16 | |
| DC150-12-15.500A1- | 15.5 | 0.6102 | | 192 | 260 | 208 | 48 | 16 | |
| DC150-12-15.875A1- | 15.875 | 0.6250 | 5/8" | 192 | 260 | 208 | 48 | 16 | |
| DC150-12-16.000A1- | 16 | 0.6299 | | 192 | 260 | 208 | 48 | 16 | |
| DC150-12-16.500A1- | 16.5 | 0.6496 | | 216 | 285 | 234 | 48 | 18 | |
| DC150-12-17.000A1- | 17 | 0.6693 | | 216 | 285 | 234 | 48 | 18 | |
| DC150-12-17.500A1- | 17.5 | 0.6890 | | 216 | 285 | 234 | 48 | 18 | |
| DC150-12-18.000A1- | 18 | 0.7087 | | 216 | 285 | 234 | 48 | 18 | |
| DC150-12-19.000A1- | 19 | 0.7480 | | 238 | 310 | 258 | 50 | 20 | |
| DC150-12-20.000A1- | 20 | 0.7874 | | 238 | 310 | 258 | 50 | 20 | |

Ordering example for the grade WJ30TA: DC150-12-03.000A1-WJ30TA

# Solid carbide micro drills with coolant-through
# DB133 Supreme



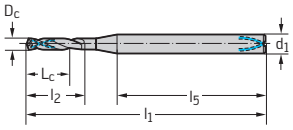





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | ●● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| DB133-12-00.700A1- | 0.7 | 0.0276 | | 9.9 | 53 | 11 | 35 | 3 | |
| DB133-12-00.750A1- | 0.75 | 0.0295 | | 10.8 | 53 | 12 | 34 | 3 | |
| DB133-12-00.794A1- | 0.794 | 0.0313 | 1/32" | 10.8 | 53 | 12 | 34 | 3 | |
| DB133-12-00.800A1- | 0.8 | 0.0315 | | 10.8 | 53 | 12 | 34 | 3 | |
| DB133-12-00.850A1- | 0.85 | 0.0335 | | 12.6 | 57 | 14 | 36 | 3 | |
| DB133-12-00.900A1- | 0.9 | 0.0354 | | 12.6 | 57 | 14 | 36 | 3 | |
| DB133-12-00.950A1- | 0.95 | 0.0374 | | 14.5 | 57 | 16 | 34 | 3 | |
| DB133-12-01.000A1- | 1 | 0.0394 | | 14.5 | 57 | 16 | 34 | 3 | |
| DB133-12-01.050A1- | 1.05 | 0.0413 | | 15 | 59 | 17 | 36 | 3 | |
| DB133-12-01.100A1- | 1.1 | 0.0433 | | 15 | 59 | 17 | 36 | 3 | |
| DB133-12-01.150A1- | 1.15 | 0.0453 | | 17 | 59 | 19 | 34 | 3 | |
| DB133-12-01.191A1- | 1.191 | 0.0469 | 3/64" | 17 | 59 | 19 | 34 | 3 | |
| DB133-12-01.200A1- | 1.2 | 0.0472 | | 17 | 59 | 19 | 34 | 3 | |
| DB133-12-01.250A1- | 1.25 | 0.0492 | | 17 | 59 | 19 | 34 | 3 | |
| DB133-12-01.300A1- | 1.3 | 0.0512 | | 18 | 63 | 20 | 37 | 3 | |
| DB133-12-01.350A1- | 1.35 | 0.0531 | | 19 | 63 | 22 | 35 | 3 | |
| DB133-12-01.400A1- | 1.4 | 0.0551 | | 19 | 63 | 22 | 35 | 3 | |
| DB133-12-01.450A1- | 1.45 | 0.0571 | | 20 | 63 | 23 | 34 | 3 | |
| DB133-12-01.500A1- | 1.5 | 0.0591 | | 20 | 63 | 23 | 34 | 3 | |
| DB133-12-01.550A1- | 1.55 | 0.0610 | | 22 | 67 | 25 | 37 | 3 | |
| DB133-12-01.588A1- | 1.588 | 0.0625 | 1/16" | 22 | 67 | 25 | 37 | 3 | |
| DB133-12-01.600A1- | 1.6 | 0.0630 | | 22 | 67 | 25 | 37 | 3 | |
| DB133-12-01.650A1- | 1.65 | 0.0650 | | 23 | 67 | 26 | 36 | 3 | |
| DB133-12-01.700A1- | 1.7 | 0.0669 | | 23 | 67 | 26 | 36 | 3 | |
| DB133-12-01.750A1- | 1.75 | 0.0689 | | 25 | 67 | 28 | 34 | 3 | |
| DB133-12-01.800A1- | 1.8 | 0.0709 | | 25 | 67 | 28 | 34 | 3 | |
| DB133-12-01.850A1- | 1.85 | 0.0728 | | 26 | 72 | 29 | 38 | 3 | |
| DB133-12-01.900A1- | 1.9 | 0.0748 | | 26 | 72 | 29 | 38 | 3 | |
| DB133-12-01.950A1- | 1.95 | 0.0768 | | 28 | 72 | 31 | 36 | 3 | |
| DB133-12-01.984A1- | 1.984 | 0.0781 | 5/64" | 28 | 72 | 31 | 36 | 3 | |
| ★ DB133-12-02.000A1- | 2 | 0.0787 | | 28 | 72 | 31 | 36 | 3 | |
| ★ DB133-12-02.100A1- | 2.1 | 0.0827 | | 29 | 72 | 33 | 35 | 3 | |
| ★ DB133-12-02.200A1- | 2.2 | 0.0866 | | 30 | 72 | 34 | 34 | 3 | |
| ★ DB133-12-02.300A1- | 2.3 | 0.0906 | | 32 | 77 | 36 | 37 | 3 | |
| ★ DB133-12-02.381A1- | 2.381 | 0.0937 | 3/32" | 33 | 77 | 37 | 36 | 3 | |

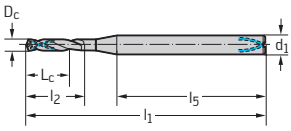
Ordering example for the grade WJ30ER: DB133-12-00.700A1-WJ30ER

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-12-02.400A1- | 2.4 | 0.0945 | | 33 | 77 | 37 | 36 | 3 | |
| ★ DB133-12-02.500A1- | 2.5 | 0.0984 | | 35 | 77 | 39 | 34 | 3 | |
| ★ DB133-12-02.600A1- | 2.6 | 0.1024 | | 36 | 83 | 40 | 39 | 3 | |
| ★ DB133-12-02.700A1- | 2.7 | 0.1063 | | 37 | 83 | 42 | 38 | 3 | |
| ★ DB133-12-02.778A1- | 2.778 | 0.1094 | 7/64" | 38 | 83 | 43 | 37 | 3 | |
| ★ DB133-12-02.800A1- | 2.8 | 0.1102 | | 38 | 83 | 43 | 37 | 3 | |
| ★ DB133-12-02.900A1- | 2.9 | 0.1142 | | 40 | 83 | 45 | 35 | 3 | |

Ordering example for the grade WJ30ER: DB133-12-00.700A1-WJ30ER

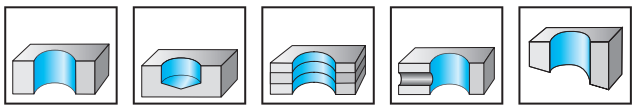
B1

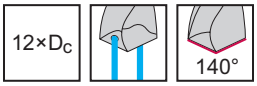
# Solid carbide drills with coolant-through

## A6589DPP

## X-treme D12



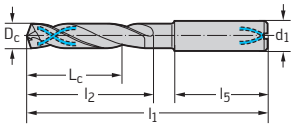





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| DPP | ●● | ●● | ●● | ●● | ●● | ●● | ● |

B1

### Tool




DIN 6535 HA

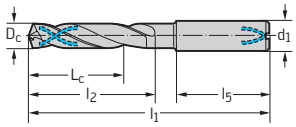
| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6589DPP-3 | 3 | 0.1181 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.1 | 3.1 | 0.1220 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-1/8IN | 3.175 | 0.1250 | 1/8" | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.2 | 3.2 | 0.1260 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.3 | 3.3 | 0.1299 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.4 | 3.4 | 0.1339 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.5 | 3.5 | 0.1378 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-9/64IN | 3.572 | 0.1406 | 9/64" | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.6 | 3.6 | 0.1417 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.7 | 3.7 | 0.1457 | | 48 | 92 | 54 | 36 | 6 |
| A6589DPP-3.8 | 3.8 | 0.1496 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-3.9 | 3.9 | 0.1535 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-5/32IN | 3.969 | 0.1563 | 5/32" | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4 | 4 | 0.1575 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.1 | 4.1 | 0.1614 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.2 | 4.2 | 0.1654 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.3 | 4.3 | 0.1693 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-11/64IN | 4.366 | 0.1719 | 11/64" | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.4 | 4.4 | 0.1732 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.5 | 4.5 | 0.1772 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.6 | 4.6 | 0.1811 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-4.7 | 4.7 | 0.1850 | | 56 | 102 | 64 | 36 | 6 |
| A6589DPP-3/16IN | 4.763 | 0.1875 | 3/16" | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-4.8 | 4.8 | 0.1890 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-4.9 | 4.9 | 0.1929 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5 | 5 | 0.1969 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.1 | 5.1 | 0.2008 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-13/64IN | 5.159 | 0.2031 | 13/64" | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.2 | 5.2 | 0.2047 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.3 | 5.3 | 0.2087 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.4 | 5.4 | 0.2126 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.5 | 5.5 | 0.2165 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.55 | 5.55 | 0.2185 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-7/32IN | 5.556 | 0.2187 | 7/32" | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.6 | 5.6 | 0.2205 | | 74 | 121 | 83 | 36 | 6 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

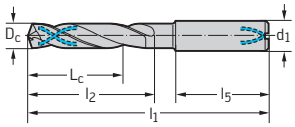



DIN 6535 HA

B1

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6589DPP-5.7 | 5.7 | 0.2244 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.8 | 5.8 | 0.2283 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-5.9 | 5.9 | 0.2323 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-6 | 6 | 0.2362 | | 74 | 121 | 83 | 36 | 6 |
| A6589DPP-6.1 | 6.1 | 0.2402 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.2 | 6.2 | 0.2441 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.3 | 6.3 | 0.2480 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-1/4IN | 6.35 | 0.2500 | 1/4" | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.4 | 6.4 | 0.2520 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.5 | 6.5 | 0.2559 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.6 | 6.6 | 0.2598 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.7 | 6.7 | 0.2638 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-17/64IN | 6.747 | 0.2656 | 17/64" | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.8 | 6.8 | 0.2677 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-6.9 | 6.9 | 0.2717 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7 | 7 | 0.2756 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.1 | 7.1 | 0.2795 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-9/32IN | 7.144 | 0.2813 | 9/32" | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.2 | 7.2 | 0.2835 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.3 | 7.3 | 0.2874 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.4 | 7.4 | 0.2913 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.5 | 7.5 | 0.2953 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-19/64IN | 7.541 | 0.2969 | 19/64" | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.8 | 7.8 | 0.3071 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-7.9 | 7.9 | 0.3110 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-5/16IN | 7.938 | 0.3125 | 5/16" | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-8 | 8 | 0.3150 | | 98 | 148 | 110 | 36 | 8 |
| A6589DPP-8.1 | 8.1 | 0.3189 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.2 | 8.2 | 0.3228 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.3 | 8.3 | 0.3268 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.4 | 8.4 | 0.3307 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.5 | 8.5 | 0.3346 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.6 | 8.6 | 0.3386 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.7 | 8.7 | 0.3425 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-11/32IN | 8.731 | 0.3437 | 11/32" | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-8.8 | 8.8 | 0.3465 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9 | 9 | 0.3543 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-23/64IN | 9.128 | 0.3594 | 23/64" | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9.2 | 9.2 | 0.3622 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9.3 | 9.3 | 0.3661 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9.5 | 9.5 | 0.3740 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-3/8IN | 9.525 | 0.3750 | 3/8" | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9.6 | 9.6 | 0.3780 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9.7 | 9.7 | 0.3819 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-9.8 | 9.8 | 0.3858 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-25/64IN | 9.922 | 0.3906 | 25/64" | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-10 | 10 | 0.3937 | | 123 | 180 | 138 | 40 | 10 |
| A6589DPP-10.1 | 10.1 | 0.3976 | | 140 | 206 | 158 | 45 | 12 |

## Tool

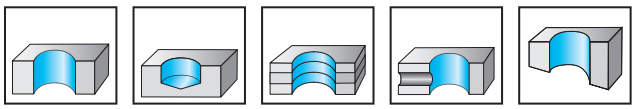


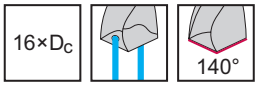

DIN 6535 HA

| Designation | m7 mm | m7 in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6589DPP-10.2 | 10.2 | 0.4016 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-10.3 | 10.3 | 0.4055 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-13/32IN | 10.319 | 0.4063 | 13/32" | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-10.4 | 10.4 | 0.4094 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-10.5 | 10.5 | 0.4134 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-27/64IN | 10.716 | 0.4219 | 27/64" | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-10.8 | 10.8 | 0.4252 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-11 | 11 | 0.4331 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-11.1 | 11.1 | 0.4370 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-7/16IN | 11.113 | 0.4375 | 7/16" | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-11.2 | 11.2 | 0.4409 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-11.5 | 11.5 | 0.4528 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-29/64IN | 11.509 | 0.4531 | 29/64" | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-11.7 | 11.7 | 0.4606 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-11.8 | 11.8 | 0.4646 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-15/32IN | 11.906 | 0.4687 | 15/32" | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-12 | 12 | 0.4724 | | 140 | 206 | 158 | 45 | 12 |
| A6589DPP-12.1 | 12.1 | 0.4764 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-12.2 | 12.2 | 0.4803 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-12.3 | 12.3 | 0.4843 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-31/64IN | 12.303 | 0.4844 | 31/64" | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-12.5 | 12.5 | 0.4921 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-12.6 | 12.6 | 0.4961 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-1/2IN | 12.7 | 0.5000 | 1/2" | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-13 | 13 | 0.5118 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-17/32IN | 13.494 | 0.5313 | 17/32" | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-13.5 | 13.5 | 0.5315 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-14 | 14 | 0.5512 | | 168 | 230 | 182 | 45 | 14 |
| A6589DPP-9/16IN | 14.288 | 0.5625 | 9/16" | 192 | 260 | 208 | 48 | 16 |
| A6589DPP-14.5 | 14.5 | 0.5709 | | 192 | 260 | 208 | 48 | 16 |
| A6589DPP-15 | 15 | 0.5906 | | 192 | 260 | 208 | 48 | 16 |
| A6589DPP-15.5 | 15.5 | 0.6102 | | 192 | 260 | 208 | 48 | 16 |
| A6589DPP-5/8IN | 15.875 | 0.6250 | 5/8" | 192 | 260 | 208 | 48 | 16 |
| A6589DPP-16 | 16 | 0.6299 | | 192 | 260 | 208 | 48 | 16 |
| A6589DPP-16.5 | 16.5 | 0.6496 | | 216 | 285 | 234 | 48 | 18 |
| A6589DPP-17 | 17 | 0.6693 | | 216 | 285 | 234 | 48 | 18 |
| A6589DPP-17.5 | 17.5 | 0.6890 | | 216 | 285 | 234 | 48 | 18 |
| A6589DPP-18 | 18 | 0.7087 | | 216 | 285 | 234 | 48 | 18 |
| A6589DPP-18.5 | 18.5 | 0.7283 | | 238 | 310 | 258 | 50 | 20 |
| A6589DPP-19 | 19 | 0.7480 | | 238 | 310 | 258 | 50 | 20 |
| A6589DPP-19.5 | 19.5 | 0.7677 | | 238 | 310 | 258 | 50 | 20 |
| A6589DPP-20 | 20 | 0.7874 | | 238 | 310 | 258 | 50 | 20 |

# Solid carbide drills with coolant-through
# DC170 Supreme



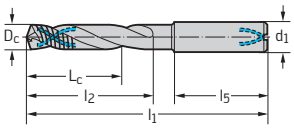





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-16-03.000A1- | 3 | 0.1181 | | 52 | 89 | 57 | 28 | 4 | ☺ |
| DC170-16-03.175A1- | 3.175 | 0.1250 | 1/8" | 60 | 98 | 66 | 28 | 4 | ☺ |
| DC170-16-03.500A1- | 3.5 | 0.1378 | | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC170-16-03.572A1- | 3.572 | 0.1406 | 9/64" | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC170-16-03.969A1- | 3.969 | 0.1563 | 5/32" | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC170-16-04.000A1- | 4 | 0.1575 | | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC170-16-04.500A1- | 4.5 | 0.1772 | | 93 | 132 | 100 | 28 | 5 | ☺ |
| DC170-16-04.763A1- | 4.763 | 0.1875 | 3/16" | 92 | 132 | 100 | 28 | 5 | ☺ |
| DC170-16-04.800A1- | 4.8 | 0.1890 | | 92 | 132 | 100 | 28 | 5 | ☺ |
| DC170-16-05.000A1- | 5 | 0.1969 | | 92 | 132 | 100 | 28 | 5 | ☺ |
| DC170-16-05.500A1- | 5.5 | 0.2165 | | 101 | 150 | 110 | 36 | 6 | ☺ |
| DC170-16-05.556A1- | 5.556 | 0.2187 | 7/32" | 111 | 160 | 120 | 36 | 6 | ☺ |
| DC170-16-05.800A1- | 5.8 | 0.2283 | | 111 | 160 | 120 | 36 | 6 | ☺ |
| DC170-16-06.000A1- | 6 | 0.2362 | | 111 | 160 | 120 | 36 | 6 | ☺ |
| DC170-16-06.100A1- | 6.1 | 0.2402 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC170-16-06.350A1- | 6.35 | 0.2500 | 1/4" | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC170-16-06.500A1- | 6.5 | 0.2559 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC170-16-06.800A1- | 6.8 | 0.2677 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC170-16-07.000A1- | 7 | 0.2756 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC170-16-07.144A1- | 7.144 | 0.2813 | 9/32" | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC170-16-07.400A1- | 7.4 | 0.2913 | | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC170-16-07.500A1- | 7.5 | 0.2953 | | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC170-16-07.938A1- | 7.938 | 0.3125 | 5/16" | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC170-16-08.000A1- | 8 | 0.3150 | | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC170-16-08.500A1- | 8.5 | 0.3346 | | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC170-16-08.731A1- | 8.731 | 0.3437 | 11/32" | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC170-16-09.000A1- | 9 | 0.3543 | | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC170-16-09.525A1- | 9.525 | 0.3750 | 3/8" | 165 | 224 | 180 | 40 | 10 | ☺ |
| DC170-16-09.800A1- | 9.8 | 0.3858 | | 165 | 224 | 180 | 40 | 10 | ☺ |
| DC170-16-10.000A1- | 10 | 0.3937 | | 165 | 224 | 180 | 40 | 10 | ☺ |
| DC170-16-10.200A1- | 10.2 | 0.4016 | | 181 | 247 | 198 | 45 | 12 | ☺ |
| DC170-16-10.319A1- | 10.319 | 0.4063 | 13/32" | 181 | 247 | 198 | 45 | 12 | ☺ |
| DC170-16-11.000A1- | 11 | 0.4331 | | 181 | 247 | 198 | 45 | 12 | ☺ |
| DC170-16-11.113A1- | 11.113 | 0.4375 | 7/16" | 198 | 265 | 216 | 45 | 12 | ☺ |
| DC170-16-11.500A1- | 11.5 | 0.4528 | | 198 | 265 | 216 | 45 | 12 | ☺ |

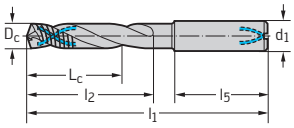
Ordering example for the grade WJ30EJ: DC170-16-03.000A1-WJ30EJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



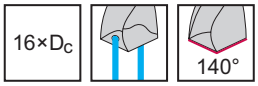

DIN 6535 HA

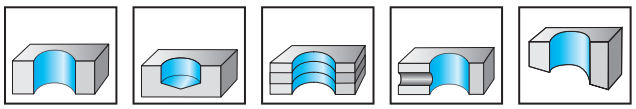
| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-16-11.800A1- | 11.8 | 0.4646 | | 198 | 265 | 216 | 45 | 12 | ● |
| DC170-16-11.906A1- | 11.906 | 0.4687 | 15/32" | 198 | 265 | 216 | 45 | 12 | ● |
| DC170-16-12.000A1- | 12 | 0.4724 | | 198 | 265 | 216 | 45 | 12 | ● |
| DC170-16-12.700A1- | 12.7 | 0.5000 | 1/2" | 238 | 301 | 252 | 45 | 14 | ● |
| DC170-16-13.000A1- | 13 | 0.5118 | | 238 | 301 | 252 | 45 | 14 | ● |
| DC170-16-14.000A1- | 14 | 0.5512 | | 238 | 301 | 252 | 45 | 14 | ● |
| DC170-16-14.288A1- | 14.288 | 0.5625 | 9/16" | 272 | 340 | 288 | 48 | 16 | ● |
| DC170-16-15.000A1- | 15 | 0.5906 | | 272 | 340 | 288 | 48 | 16 | ● |
| DC170-16-16.000A1- | 16 | 0.6299 | | 272 | 340 | 288 | 48 | 16 | ● |

Ordering example for the grade WJ30EJ: DC170-16-03.000A1-WJ30EJ

# Solid carbide drills with coolant-through
## DC160 Advance
## X-treme Evo



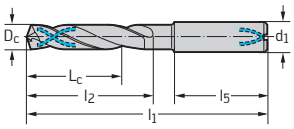


B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EU | ●● | ● | ●● | ●● | ●● | ● | ● |

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-16-03.000A1- | 3 | 0.1181 | | 52 | 89 | 57 | 28 | 4 | ☺ |
| DC160-16-03.175A1- | 3.175 | 0.1250 | 1/8" | 60 | 98 | 66 | 28 | 4 | ☺ |
| DC160-16-03.500A1- | 3.5 | 0.1378 | | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC160-16-03.572A1- | 3.572 | 0.1406 | 9/64" | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC160-16-03.969A1- | 3.969 | 0.1563 | 5/32" | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC160-16-04.000A1- | 4 | 0.1575 | | 72 | 110 | 78 | 28 | 4 | ☺ |
| DC160-16-04.500A1- | 4.5 | 0.1772 | | 93 | 132 | 100 | 28 | 5 | ☺ |
| DC160-16-04.763A1- | 4.763 | 0.1875 | 3/16" | 92 | 132 | 100 | 28 | 5 | ☺ |
| DC160-16-04.800A1- | 4.8 | 0.1890 | | 92 | 132 | 100 | 28 | 5 | ☺ |
| DC160-16-05.000A1- | 5 | 0.1969 | | 92 | 132 | 100 | 28 | 5 | ☺ |
| DC160-16-05.500A1- | 5.5 | 0.2165 | | 101 | 150 | 110 | 36 | 6 | ☺ |
| DC160-16-05.556A1- | 5.556 | 0.2187 | 7/32" | 111 | 160 | 120 | 36 | 6 | ☺ |
| DC160-16-05.800A1- | 5.8 | 0.2283 | | 111 | 160 | 120 | 36 | 6 | ☺ |
| DC160-16-06.000A1- | 6 | 0.2362 | | 111 | 160 | 120 | 36 | 6 | ☺ |
| DC160-16-06.100A1- | 6.1 | 0.2402 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC160-16-06.350A1- | 6.35 | 0.2500 | 1/4" | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC160-16-06.500A1- | 6.5 | 0.2559 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC160-16-06.800A1- | 6.8 | 0.2677 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC160-16-07.000A1- | 7 | 0.2756 | | 124 | 175 | 135 | 36 | 8 | ☺ |
| DC160-16-07.144A1- | 7.144 | 0.2813 | 9/32" | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC160-16-07.400A1- | 7.4 | 0.2913 | | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC160-16-07.500A1- | 7.5 | 0.2953 | | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC160-16-07.938A1- | 7.938 | 0.3125 | 5/16" | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC160-16-08.000A1- | 8 | 0.3150 | | 140 | 192 | 152 | 36 | 8 | ☺ |
| DC160-16-08.300A1- | 8.3 | 0.3268 | | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC160-16-08.500A1- | 8.5 | 0.3346 | | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC160-16-08.731A1- | 8.731 | 0.3437 | 11/32" | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC160-16-09.000A1- | 9 | 0.3543 | | 148 | 206 | 162 | 40 | 10 | ☺ |
| DC160-16-09.525A1- | 9.525 | 0.3750 | 3/8" | 165 | 224 | 180 | 40 | 10 | ☺ |
| DC160-16-09.800A1- | 9.8 | 0.3858 | | 165 | 224 | 180 | 40 | 10 | ☺ |
| DC160-16-10.000A1- | 10 | 0.3937 | | 165 | 224 | 180 | 40 | 10 | ☺ |
| DC160-16-10.200A1- | 10.2 | 0.4016 | | 181 | 247 | 198 | 45 | 12 | ☺ |
| DC160-16-10.319A1- | 10.319 | 0.4063 | 13/32" | 181 | 247 | 198 | 45 | 12 | ☺ |
| DC160-16-11.000A1- | 11 | 0.4331 | | 181 | 247 | 198 | 45 | 12 | ☺ |
| DC160-16-11.113A1- | 11.113 | 0.4375 | 7/16" | 198 | 265 | 216 | 45 | 12 | ☺ |

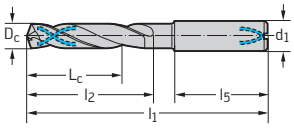
Ordering example for the grade WJ30EU: DC160-16-03.000A1-WJ30EU

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



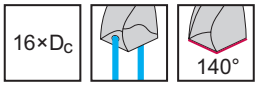

DIN 6535 HA

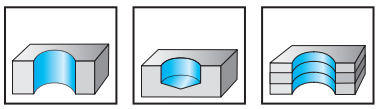
| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-16-11.500A1- | 11.5 | 0.4528 | | 198 | 265 | 216 | 45 | 12 | ● |
| DC160-16-11.800A1- | 11.8 | 0.4646 | | 198 | 265 | 216 | 45 | 12 | ● |
| DC160-16-11.906A1- | 11.906 | 0.4687 | 15/32" | 198 | 265 | 216 | 45 | 12 | ● |
| DC160-16-12.000A1- | 12 | 0.4724 | | 198 | 265 | 216 | 45 | 12 | ● |
| DC160-16-12.700A1- | 12.7 | 0.5000 | 1/2" | 238 | 301 | 252 | 45 | 14 | ● |
| DC160-16-13.000A1- | 13 | 0.5118 | | 238 | 301 | 252 | 45 | 14 | ● |
| DC160-16-14.000A1- | 14 | 0.5512 | | 238 | 301 | 252 | 45 | 14 | ● |
| DC160-16-14.288A1- | 14.288 | 0.5625 | 9/16" | 272 | 340 | 288 | 48 | 16 | ● |
| DC160-16-15.000A1- | 15 | 0.5906 | | 272 | 340 | 288 | 48 | 16 | ● |
| DC160-16-16.000A1- | 16 | 0.6299 | | 272 | 340 | 288 | 48 | 16 | ● |

Ordering example for the grade WJ30EU: DC160-16-03.000A1-WJ30EU

# Solid carbide micro drills with coolant-through
# DB133 Supreme



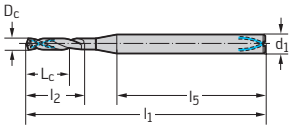


B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ mm | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-16-02.000A1- | 2 | 0.0787 | | 36 | 81 | 39 | 37 | 3 | |
| ★ DB133-16-02.100A1- | 2.1 | 0.0827 | | 37 | 81 | 41 | 36 | 3 | |
| ★ DB133-16-02.200A1- | 2.2 | 0.0866 | | 39 | 81 | 43 | 34 | 3 | |
| ★ DB133-16-02.300A1- | 2.3 | 0.0906 | | 41 | 87 | 45 | 38 | 3 | |
| ★ DB133-16-02.381A1- | 2.381 | 0.0937 | 3/32" | 43 | 87 | 47 | 36 | 3 | |
| ★ DB133-16-02.400A1- | 2.4 | 0.0945 | | 43 | 87 | 47 | 36 | 3 | |
| ★ DB133-16-02.500A1- | 2.5 | 0.0984 | | 45 | 87 | 49 | 34 | 3 | |
| ★ DB133-16-02.600A1- | 2.6 | 0.1024 | | 47 | 95 | 51 | 40 | 3 | |
| ★ DB133-16-02.700A1- | 2.7 | 0.1063 | | 48 | 95 | 53 | 39 | 3 | |
| ★ DB133-16-02.778A1- | 2.778 | 0.1094 | 7/64" | 50 | 95 | 55 | 37 | 3 | |
| ★ DB133-16-02.800A1- | 2.8 | 0.1102 | | 50 | 95 | 55 | 37 | 3 | |
| ★ DB133-16-02.900A1- | 2.9 | 0.1142 | | 52 | 95 | 57 | 35 | 3 | |

Ordering example for the grade WJ30ER: DB133-16-02.000A1-WJ30ER

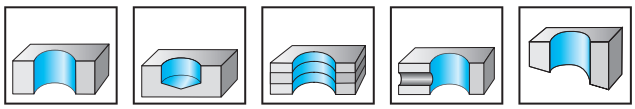
**WALTER SELECT**

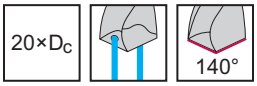
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through
# DC170 Supreme



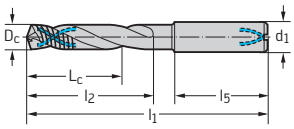





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

## Tool




DIN 6535 HA

| Designation | h7 mm | Dc in | Dc Inch/Nr | Lc mm | l1 mm | l2 mm | l5 mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-20-03.000A1- | 3 | 0.1181 | | 60 | 97 | 65 | 28 | 4 | ☺ |
| DC170-20-03.175A1- | 3.175 | 0.1250 | 1/8" | 74 | 112 | 80 | 28 | 4 | ☺ |
| DC170-20-03.500A1- | 3.5 | 0.1378 | | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC170-20-03.572A1- | 3.572 | 0.1406 | 9/64" | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC170-20-03.969A1- | 3.969 | 0.1563 | 5/32" | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC170-20-04.000A1- | 4 | 0.1575 | | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC170-20-04.500A1- | 4.5 | 0.1772 | | 111 | 150 | 118 | 28 | 5 | ☺ |
| DC170-20-04.763A1- | 4.763 | 0.1875 | 3/16" | 110 | 150 | 118 | 28 | 5 | ☺ |
| DC170-20-04.800A1- | 4.8 | 0.1890 | | 110 | 150 | 118 | 28 | 5 | ☺ |
| DC170-20-05.000A1- | 5 | 0.1969 | | 110 | 150 | 118 | 28 | 5 | ☺ |
| DC170-20-05.500A1- | 5.5 | 0.2165 | | 123 | 170 | 132 | 36 | 6 | ☺ |
| DC170-20-05.556A1- | 5.556 | 0.2187 | 7/32" | 135 | 182 | 144 | 36 | 6 | ☺ |
| DC170-20-05.800A1- | 5.8 | 0.2283 | | 135 | 182 | 144 | 36 | 6 | ☺ |
| DC170-20-06.000A1- | 6 | 0.2362 | | 135 | 182 | 144 | 36 | 6 | ☺ |
| DC170-20-06.100A1- | 6.1 | 0.2402 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC170-20-06.350A1- | 6.35 | 0.2500 | 1/4" | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC170-20-06.500A1- | 6.5 | 0.2559 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC170-20-06.800A1- | 6.8 | 0.2677 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC170-20-07.000A1- | 7 | 0.2756 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC170-20-07.144A1- | 7.144 | 0.2813 | 9/32" | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC170-20-07.400A1- | 7.4 | 0.2913 | | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC170-20-07.500A1- | 7.5 | 0.2953 | | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC170-20-07.938A1- | 7.938 | 0.3125 | 5/16" | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC170-20-08.000A1- | 8 | 0.3150 | | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC170-20-08.300A1- | 8.3 | 0.3268 | | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC170-20-08.500A1- | 8.5 | 0.3346 | | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC170-20-08.731A1- | 8.731 | 0.3437 | 11/32" | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC170-20-09.000A1- | 9 | 0.3543 | | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC170-20-09.525A1- | 9.525 | 0.3750 | 3/8" | 205 | 262 | 220 | 40 | 10 | ☺ |
| DC170-20-09.800A1- | 9.8 | 0.3858 | | 205 | 262 | 220 | 40 | 10 | ☺ |
| DC170-20-10.000A1- | 10 | 0.3937 | | 205 | 262 | 220 | 40 | 10 | ☺ |
| DC170-20-10.200A1- | 10.2 | 0.4016 | | 225 | 289 | 242 | 45 | 12 | ☺ |
| DC170-20-10.319A1- | 10.319 | 0.4063 | 13/32" | 225 | 289 | 242 | 45 | 12 | ☺ |
| DC170-20-11.000A1- | 11 | 0.4331 | | 225 | 289 | 242 | 45 | 12 | ☺ |
| DC170-20-11.113A1- | 11.113 | 0.4375 | 7/16" | 246 | 311 | 264 | 45 | 12 | ☺ |

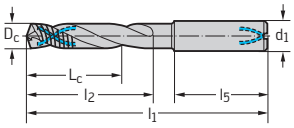
Ordering example for the grade WJ30EJ: DC170-20-03.000A1-WJ30EJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

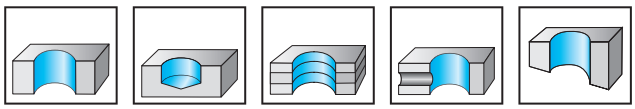
| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-20-11.500A1- | 11.5 | 0.4528 | | 246 | 311 | 264 | 45 | 12 | ● |
| DC170-20-11.800A1- | 11.8 | 0.4646 | | 246 | 311 | 264 | 45 | 12 | ● |
| DC170-20-12.000A1- | 12 | 0.4724 | | 246 | 311 | 264 | 45 | 12 | ● |
| DC170-20-12.700A1- | 12.7 | 0.5000 | 1/2" | 294 | 357 | 308 | 45 | 14 | ● |
| DC170-20-13.000A1- | 13 | 0.5118 | | 294 | 357 | 308 | 45 | 14 | ● |
| DC170-20-14.000A1- | 14 | 0.5512 | | 294 | 357 | 308 | 45 | 14 | ● |
| DC170-20-14.288A1- | 14.288 | 0.5625 | 9/16" | 336 | 404 | 352 | 48 | 16 | ● |
| DC170-20-15.000A1- | 15 | 0.5906 | | 336 | 404 | 352 | 48 | 16 | ● |
| DC170-20-16.000A1- | 16 | 0.6299 | | 336 | 404 | 352 | 48 | 16 | ● |

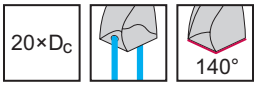
Ordering example for the grade WJ30EJ: DC170-20-03.000A1-WJ30EJ

B1

# Solid carbide drills with coolant-through
## DC160 Advance
## X·treme Evo



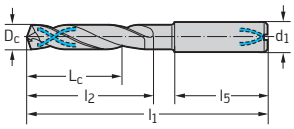





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EU | ●● | ● | ●● | ●● | ●● | ● | ● |



## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-20-03.000A1- | 3 | 0.1181 | | 60 | 97 | 65 | 28 | 4 | ☺ |
| DC160-20-03.175A1- | 3.175 | 0.1250 | 1/8" | 74 | 112 | 80 | 28 | 4 | ☺ |
| DC160-20-03.500A1- | 3.5 | 0.1378 | | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC160-20-03.572A1- | 3.572 | 0.1406 | 9/64" | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC160-20-03.969A1- | 3.969 | 0.1563 | 5/32" | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC160-20-04.000A1- | 4 | 0.1575 | | 86 | 124 | 92 | 28 | 4 | ☺ |
| DC160-20-04.500A1- | 4.5 | 0.1772 | | 111 | 150 | 118 | 28 | 5 | ☺ |
| DC160-20-04.763A1- | 4.763 | 0.1875 | 3/16" | 110 | 150 | 118 | 28 | 5 | ☺ |
| DC160-20-04.800A1- | 4.8 | 0.1890 | | 110 | 150 | 118 | 28 | 5 | ☺ |
| DC160-20-05.000A1- | 5 | 0.1969 | | 110 | 150 | 118 | 28 | 5 | ☺ |
| DC160-20-05.500A1- | 5.5 | 0.2165 | | 123 | 170 | 132 | 36 | 6 | ☺ |
| DC160-20-05.556A1- | 5.556 | 0.2187 | 7/32" | 135 | 182 | 144 | 36 | 6 | ☺ |
| DC160-20-05.800A1- | 5.8 | 0.2283 | | 135 | 182 | 144 | 36 | 6 | ☺ |
| DC160-20-06.000A1- | 6 | 0.2362 | | 135 | 182 | 144 | 36 | 6 | ☺ |
| DC160-20-06.100A1- | 6.1 | 0.2402 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC160-20-06.350A1- | 6.35 | 0.2500 | 1/4" | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC160-20-06.500A1- | 6.5 | 0.2559 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC160-20-06.800A1- | 6.8 | 0.2677 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC160-20-07.000A1- | 7 | 0.2756 | | 151 | 200 | 162 | 36 | 8 | ☺ |
| DC160-20-07.144A1- | 7.144 | 0.2813 | 9/32" | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC160-20-07.400A1- | 7.4 | 0.2913 | | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC160-20-07.500A1- | 7.5 | 0.2953 | | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC160-20-07.938A1- | 7.938 | 0.3125 | 5/16" | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC160-20-08.000A1- | 8 | 0.3150 | | 172 | 222 | 184 | 36 | 8 | ☺ |
| DC160-20-08.300A1- | 8.3 | 0.3268 | | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC160-20-08.500A1- | 8.5 | 0.3346 | | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC160-20-08.731A1- | 8.731 | 0.3437 | 11/32" | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC160-20-09.000A1- | 9 | 0.3543 | | 184 | 240 | 198 | 40 | 10 | ☺ |
| DC160-20-09.525A1- | 9.525 | 0.3750 | 3/8" | 205 | 262 | 220 | 40 | 10 | ☺ |
| DC160-20-09.800A1- | 9.8 | 0.3858 | | 205 | 262 | 220 | 40 | 10 | ☺ |
| DC160-20-10.000A1- | 10 | 0.3937 | | 205 | 262 | 220 | 40 | 10 | ☺ |
| DC160-20-10.200A1- | 10.2 | 0.4016 | | 225 | 289 | 242 | 45 | 12 | ☺ |
| DC160-20-10.319A1- | 10.319 | 0.4063 | 13/32" | 225 | 289 | 242 | 45 | 12 | ☺ |
| DC160-20-11.000A1- | 11 | 0.4331 | | 225 | 289 | 242 | 45 | 12 | ☺ |
| DC160-20-11.113A1- | 11.113 | 0.4375 | 7/16" | 246 | 311 | 264 | 45 | 12 | ☺ |

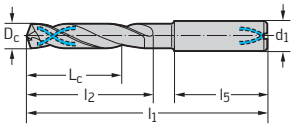
Ordering example for the grade WJ30EU: DC160-20-03.000A1-WJ30EU

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



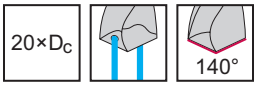

DIN 6535 HA

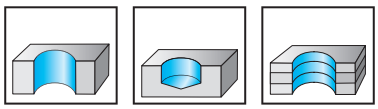
| Designation | h7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-20-11.500A1- | 11.5 | 0.4528 | | 246 | 311 | 264 | 45 | 12 | |
| DC160-20-11.800A1- | 11.8 | 0.4646 | | 246 | 311 | 264 | 45 | 12 | |
| DC160-20-11.906A1- | 11.906 | 0.4687 | 15/32" | 246 | 311 | 264 | 45 | 12 | |
| DC160-20-12.000A1- | 12 | 0.4724 | | 246 | 311 | 264 | 45 | 12 | |
| DC160-20-12.700A1- | 12.7 | 0.5000 | 1/2" | 294 | 357 | 308 | 45 | 14 | |
| DC160-20-13.000A1- | 13 | 0.5118 | | 294 | 357 | 308 | 45 | 14 | |
| DC160-20-14.000A1- | 14 | 0.5512 | | 294 | 357 | 308 | 45 | 14 | |
| DC160-20-14.288A1- | 14.288 | 0.5625 | 9/16" | 336 | 404 | 352 | 48 | 16 | |
| DC160-20-15.000A1- | 15 | 0.5906 | | 336 | 404 | 352 | 48 | 16 | |
| DC160-20-16.000A1- | 16 | 0.6299 | | 336 | 404 | 352 | 48 | 16 | |

Ordering example for the grade WJ30EU: DC160-20-03.000A1-WJ30EU

B1

# Solid carbide micro drills with coolant-through
# DB133 Supreme

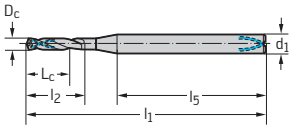


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | ●● | ●● | ●● | ●● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-20-02.000A1- | 2 | 0.0787 | | 44 | 90 | 47 | 38 | 3 | |
| ★ DB133-20-02.100A1- | 2.1 | 0.0827 | | 45 | 90 | 49 | 37 | 3 | |
| ★ DB133-20-02.200A1- | 2.2 | 0.0866 | | 48 | 90 | 52 | 34 | 3 | |
| ★ DB133-20-02.300A1- | 2.3 | 0.0906 | | 50 | 97 | 54 | 39 | 3 | |
| ★ DB133-20-02.381A1- | 2.381 | 0.0937 | 3/32" | 52 | 97 | 56 | 37 | 3 | |
| ★ DB133-20-02.400A1- | 2.4 | 0.0945 | | 52 | 97 | 56 | 37 | 3 | |
| ★ DB133-20-02.500A1- | 2.5 | 0.0984 | | 55 | 97 | 59 | 34 | 3 | |
| ★ DB133-20-02.600A1- | 2.6 | 0.1024 | | 57 | 107 | 61 | 42 | 3 | |
| ★ DB133-20-02.700A1- | 2.7 | 0.1063 | | 58 | 107 | 63 | 41 | 3 | |
| ★ DB133-20-02.778A1- | 2.778 | 0.1094 | 7/64" | 61 | 107 | 66 | 38 | 3 | |
| ★ DB133-20-02.800A1- | 2.8 | 0.1102 | | 61 | 107 | 66 | 38 | 3 | |
| ★ DB133-20-02.900A1- | 2.9 | 0.1142 | | 63 | 107 | 68 | 36 | 3 | |

Ordering example for the grade WJ30ER: DB133-20-02.000A1-WJ30ER

**WALTER SELECT**

●● Primary application ● Other application

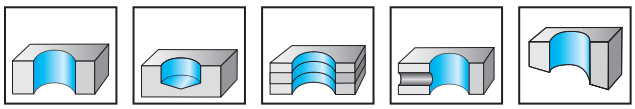
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

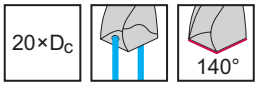
# Solid carbide drills with coolant-through

## A6794TFP

## X-treme DH20



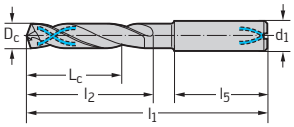





B1

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

### Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6794TFP-3 | 3 | 0.1181 | | 60 | 107 | 65 | 36 | 6 |
| A6794TFP-1/8IN | 3.175 | 0.1250 | 1/8" | 86 | 134 | 92 | 36 | 6 |
| A6794TFP-3.5 | 3.5 | 0.1378 | | 86 | 134 | 92 | 36 | 6 |
| A6794TFP-9/64IN | 3.572 | 0.1406 | 9/64" | 86 | 134 | 92 | 36 | 6 |
| A6794TFP-5/32IN | 3.969 | 0.1563 | 5/32" | 86 | 134 | 92 | 36 | 6 |
| A6794TFP-4 | 4 | 0.1575 | | 86 | 134 | 92 | 36 | 6 |
| A6794TFP-4.5 | 4.5 | 0.1772 | | 110 | 158 | 118 | 36 | 6 |
| A6794TFP-3/16IN | 4.763 | 0.1875 | 3/16" | 110 | 158 | 118 | 36 | 6 |
| A6794TFP-4.8 | 4.8 | 0.1890 | | 110 | 158 | 118 | 36 | 6 |
| A6794TFP-5 | 5 | 0.1969 | | 110 | 158 | 118 | 36 | 6 |
| A6794TFP-5.5 | 5.5 | 0.2165 | | 123 | 170 | 132 | 36 | 6 |
| A6794TFP-7/32IN | 5.556 | 0.2187 | 7/32" | 135 | 182 | 144 | 36 | 6 |
| A6794TFP-6 | 6 | 0.2362 | | 135 | 182 | 144 | 36 | 6 |
| A6794TFP-6.1 | 6.1 | 0.2402 | | 151 | 200 | 162 | 36 | 8 |
| A6794TFP-1/4IN | 6.35 | 0.2500 | 1/4" | 151 | 200 | 162 | 36 | 8 |
| A6794TFP-6.5 | 6.5 | 0.2559 | | 151 | 200 | 162 | 36 | 8 |
| A6794TFP-6.8 | 6.8 | 0.2677 | | 151 | 200 | 162 | 36 | 8 |
| A6794TFP-7 | 7 | 0.2756 | | 151 | 200 | 162 | 36 | 8 |
| A6794TFP-9/32IN | 7.144 | 0.2813 | 9/32" | 172 | 222 | 184 | 36 | 8 |
| A6794TFP-7.5 | 7.5 | 0.2953 | | 172 | 222 | 184 | 36 | 8 |
| A6794TFP-5/16IN | 7.938 | 0.3125 | 5/16" | 172 | 222 | 184 | 36 | 8 |
| A6794TFP-8 | 8 | 0.3150 | | 172 | 222 | 184 | 36 | 8 |
| A6794TFP-8.3 | 8.3 | 0.3268 | | 184 | 240 | 198 | 40 | 10 |
| A6794TFP-8.5 | 8.5 | 0.3346 | | 184 | 240 | 198 | 40 | 10 |
| A6794TFP-11/32IN | 8.731 | 0.3437 | 11/32" | 184 | 240 | 198 | 40 | 10 |
| A6794TFP-9 | 9 | 0.3543 | | 184 | 240 | 198 | 40 | 10 |
| A6794TFP-3/8IN | 9.525 | 0.3750 | 3/8" | 205 | 262 | 220 | 40 | 10 |
| A6794TFP-9.8 | 9.8 | 0.3858 | | 205 | 262 | 220 | 40 | 10 |
| A6794TFP-10 | 10 | 0.3937 | | 205 | 262 | 220 | 40 | 10 |

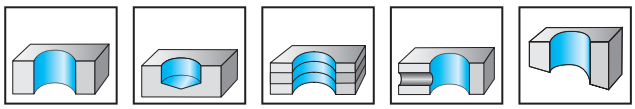
**WALTER SELECT**

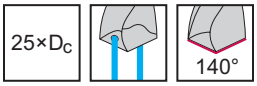
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through
# DC170 Supreme



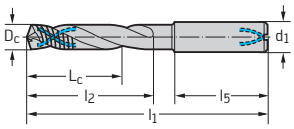





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-25-03.000A1- | 3 | 0.1181 | | 79 | 119 | 84 | 28 | 4 | ☺ |
| DC170-25-03.175A1- | 3.175 | 0.1250 | 1/8" | 96 | 148 | 102 | 28 | 4 | ☺ |
| DC170-25-03.500A1- | 3.5 | 0.1378 | | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC170-25-03.572A1- | 3.572 | 0.1406 | 9/64" | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC170-25-03.969A1- | 3.969 | 0.1563 | 5/32" | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC170-25-04.000A1- | 4 | 0.1575 | | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC170-25-04.500A1- | 4.5 | 0.1772 | | 138 | 177 | 145 | 28 | 5 | ☺ |
| DC170-25-04.763A1- | 4.763 | 0.1875 | 3/16" | 137 | 177 | 145 | 28 | 5 | ☺ |
| DC170-25-04.800A1- | 4.8 | 0.1890 | | 137 | 177 | 145 | 28 | 5 | ☺ |
| DC170-25-05.000A1- | 5 | 0.1969 | | 137 | 177 | 145 | 28 | 5 | ☺ |
| DC170-25-05.500A1- | 5.5 | 0.2165 | | 151 | 200 | 160 | 36 | 6 | ☺ |
| DC170-25-05.556A1- | 5.556 | 0.2187 | 7/32" | 165 | 214 | 174 | 36 | 6 | ☺ |
| DC170-25-06.000A1- | 6 | 0.2362 | | 165 | 214 | 174 | 36 | 6 | ☺ |
| DC170-25-06.350A1- | 6.35 | 0.2500 | 1/4" | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC170-25-06.500A1- | 6.5 | 0.2559 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC170-25-06.800A1- | 6.8 | 0.2677 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC170-25-07.000A1- | 7 | 0.2756 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC170-25-07.144A1- | 7.144 | 0.2813 | 9/32" | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC170-25-07.938A1- | 7.938 | 0.3125 | 5/16" | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC170-25-08.000A1- | 8 | 0.3150 | | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC170-25-08.500A1- | 8.5 | 0.3346 | | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC170-25-08.731A1- | 8.731 | 0.3437 | 11/32" | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC170-25-09.000A1- | 9 | 0.3543 | | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC170-25-09.525A1- | 9.525 | 0.3750 | 3/8" | 255 | 314 | 270 | 40 | 10 | ☺ |
| DC170-25-10.000A1- | 10 | 0.3937 | | 255 | 314 | 270 | 40 | 10 | ☺ |
| DC170-25-10.200A1- | 10.2 | 0.4016 | | 280 | 346 | 297 | 45 | 12 | ☺ |
| DC170-25-11.000A1- | 11 | 0.4331 | | 280 | 346 | 297 | 45 | 12 | ☺ |
| DC170-25-11.113A1- | 11.113 | 0.4375 | 7/16" | 306 | 373 | 324 | 45 | 12 | ☺ |
| DC170-25-12.000A1- | 12 | 0.4724 | | 306 | 373 | 324 | 45 | 12 | ☺ |

Ordering example for the grade WJ30EJ: DC170-25-03.000A1-WJ30EJ

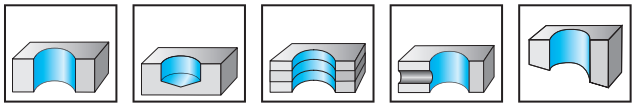
**WALTER SELECT**

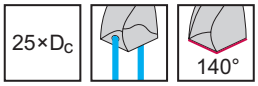
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through
## DC160 Advance
## X-treme Evo



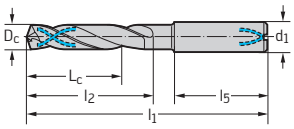





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EU | ●● | ● | ●● | ●● | ●● | ● | ● |

## Tool




DIN 6535 HA

| Designation | h7 | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-25-03.000A1- | 3 | 0.1181 | | 79 | 119 | 84 | 28 | 4 | ☺ |
| DC160-25-03.175A1- | 3.175 | 0.1250 | 1/8" | 96 | 148 | 102 | 28 | 4 | ☺ |
| DC160-25-03.500A1- | 3.5 | 0.1378 | | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC160-25-03.572A1- | 3.572 | 0.1406 | 9/64" | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC160-25-03.969A1- | 3.969 | 0.1563 | 5/32" | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC160-25-04.000A1- | 4 | 0.1575 | | 108 | 148 | 114 | 28 | 4 | ☺ |
| DC160-25-04.500A1- | 4.5 | 0.1772 | | 138 | 177 | 145 | 28 | 5 | ☺ |
| DC160-25-04.763A1- | 4.763 | 0.1875 | 3/16" | 137 | 177 | 145 | 28 | 5 | ☺ |
| DC160-25-04.800A1- | 4.8 | 0.1890 | | 137 | 177 | 145 | 28 | 5 | ☺ |
| DC160-25-05.000A1- | 5 | 0.1969 | | 137 | 177 | 145 | 28 | 5 | ☺ |
| DC160-25-05.500A1- | 5.5 | 0.2165 | | 151 | 200 | 160 | 36 | 6 | ☺ |
| DC160-25-05.556A1- | 5.556 | 0.2187 | 7/32" | 165 | 214 | 174 | 36 | 6 | ☺ |
| DC160-25-05.800A1- | 5.8 | 0.2283 | | 165 | 214 | 174 | 36 | 6 | ☺ |
| DC160-25-06.000A1- | 6 | 0.2362 | | 165 | 214 | 174 | 36 | 6 | ☺ |
| DC160-25-06.100A1- | 6.1 | 0.2402 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC160-25-06.350A1- | 6.35 | 0.2500 | 1/4" | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC160-25-06.500A1- | 6.5 | 0.2559 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC160-25-06.800A1- | 6.8 | 0.2677 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC160-25-07.000A1- | 7 | 0.2756 | | 183 | 234 | 194 | 36 | 8 | ☺ |
| DC160-25-07.144A1- | 7.144 | 0.2813 | 9/32" | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC160-25-07.400A1- | 7.4 | 0.2913 | | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC160-25-07.500A1- | 7.5 | 0.2953 | | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC160-25-07.938A1- | 7.938 | 0.3125 | 5/16" | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC160-25-08.000A1- | 8 | 0.3150 | | 208 | 260 | 220 | 36 | 8 | ☺ |
| DC160-25-08.300A1- | 8.3 | 0.3268 | | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC160-25-08.500A1- | 8.5 | 0.3346 | | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC160-25-08.731A1- | 8.731 | 0.3437 | 11/32" | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC160-25-09.000A1- | 9 | 0.3543 | | 229 | 289 | 243 | 40 | 10 | ☺ |
| DC160-25-09.525A1- | 9.525 | 0.3750 | 3/8" | 255 | 314 | 270 | 40 | 10 | ☺ |
| DC160-25-09.800A1- | 9.8 | 0.3858 | | 255 | 314 | 270 | 40 | 10 | ☺ |
| DC160-25-10.000A1- | 10 | 0.3937 | | 255 | 314 | 270 | 40 | 10 | ☺ |
| DC160-25-10.200A1- | 10.2 | 0.4016 | | 280 | 346 | 297 | 45 | 12 | ☺ |
| DC160-25-10.319A1- | 10.319 | 0.4063 | 13/32" | 280 | 346 | 297 | 45 | 12 | ☺ |
| DC160-25-11.000A1- | 11 | 0.4331 | | 280 | 346 | 297 | 45 | 12 | ☺ |
| DC160-25-11.113A1- | 11.113 | 0.4375 | 7/16" | 306 | 373 | 324 | 45 | 12 | ☺ |

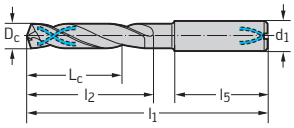
Ordering example for the grade WJ30EU: DC160-25-03.000A1-WJ30EU

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



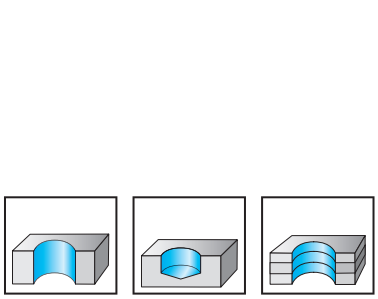

DIN 6535 HA

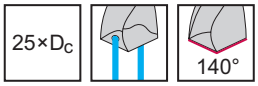
| Designation | h7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-25-11.500A1- | 11.5 | 0.4528 | | 306 | 373 | 324 | 45 | 12 | ● |
| DC160-25-11.800A1- | 11.8 | 0.4646 | | 306 | 373 | 324 | 45 | 12 | ● |
| DC160-25-11.906A1- | 11.906 | 0.4687 | 15/32" | 306 | 373 | 324 | 45 | 12 | ● |
| DC160-25-12.000A1- | 12 | 0.4724 | | 306 | 373 | 324 | 45 | 12 | ● |

Ordering example for the grade WJ30EU: DC160-25-03.000A1-WJ30EU

B1

# Solid carbide micro drills with coolant-through
# DB133 Supreme

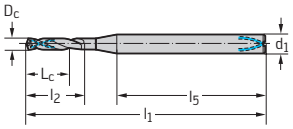





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-25-02.000A1- | 2 | 0.0787 | | 54 | 101 | 57 | 39 | 3 | |
| ★ DB133-25-02.100A1- | 2.1 | 0.0827 | | 56 | 101 | 60 | 37 | 3 | |
| ★ DB133-25-02.200A1- | 2.2 | 0.0866 | | 59 | 101 | 63 | 34 | 3 | |
| ★ DB133-25-02.300A1- | 2.3 | 0.0906 | | 62 | 107 | 66 | 37 | 3 | |
| ★ DB133-25-02.381A1- | 2.381 | 0.0937 | 3/32" | 64 | 107 | 68 | 35 | 3 | |
| ★ DB133-25-02.400A1- | 2.4 | 0.0945 | | 64 | 107 | 68 | 35 | 3 | |
| ★ DB133-25-02.500A1- | 2.5 | 0.0984 | | 67 | 107 | 71 | 32 | 3 | |
| ★ DB133-25-02.600A1- | 2.6 | 0.1024 | | 70 | 122 | 74 | 44 | 3 | |
| ★ DB133-25-02.700A1- | 2.7 | 0.1063 | | 72 | 122 | 77 | 41 | 3 | |
| ★ DB133-25-02.778A1- | 2.778 | 0.1094 | 7/64" | 75 | 122 | 80 | 38 | 3 | |
| ★ DB133-25-02.800A1- | 2.8 | 0.1102 | | 75 | 122 | 80 | 38 | 3 | |
| ★ DB133-25-02.900A1- | 2.9 | 0.1142 | | 78 | 122 | 83 | 36 | 3 | |

Ordering example for the grade WJ30ER: DB133-25-02.000A1-WJ30ER

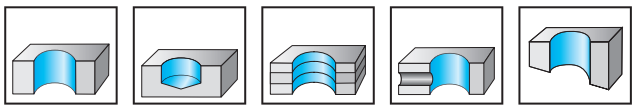
**WALTER SELECT**

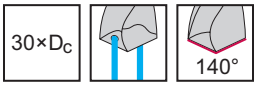
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through
# DC170 Supreme



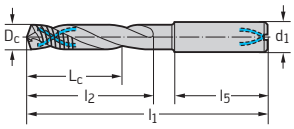





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EJ | ●● | | ●● | | | ● | |

B1

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EJ |
|---|---|---|---|---|---|---|---|---|---|
| DC170-30-03.000A1- | 3 | 0.1181 | | 92 | 132 | 97 | 28 | 4 | 😐 |
| DC170-30-03.175A1- | 3.175 | 0.1250 | 1/8" | 114 | 166 | 120 | 28 | 4 | 😐 |
| DC170-30-03.500A1- | 3.5 | 0.1378 | | 127 | 166 | 133 | 28 | 4 | 😐 |
| DC170-30-04.000A1- | 4 | 0.1575 | | 127 | 166 | 133 | 28 | 4 | 😐 |
| DC170-30-04.500A1- | 4.5 | 0.1772 | | 162 | 200 | 169 | 28 | 5 | 😐 |
| DC170-30-04.763A1- | 4.763 | 0.1875 | 3/16" | 161 | 200 | 169 | 28 | 5 | 😐 |
| DC170-30-04.800A1- | 4.8 | 0.189 | | 161 | 200 | 169 | 28 | 5 | 😐 |
| DC170-30-05.000A1- | 5 | 0.1969 | | 161 | 200 | 169 | 28 | 5 | 😐 |
| DC170-30-05.500A1- | 5.5 | 0.2165 | | 178 | 225 | 187 | 36 | 6 | 😐 |
| DC170-30-06.000A1- | 6 | 0.2362 | | 195 | 242 | 204 | 36 | 6 | 😐 |
| DC170-30-06.350A1- | 6.35 | 0.2500 | 1/4" | 217 | 268 | 228 | 36 | 8 | 😐 |
| DC170-30-06.500A1- | 6.5 | 0.2559 | | 217 | 268 | 228 | 36 | 8 | 😐 |
| DC170-30-06.800A1- | 6.8 | 0.2677 | | 217 | 268 | 228 | 36 | 8 | 😐 |
| DC170-30-07.000A1- | 7 | 0.2756 | | 217 | 268 | 228 | 36 | 8 | 😐 |
| DC170-30-07.400A1- | 7.4 | 0.2913 | | 244 | 294 | 256 | 36 | 8 | 😐 |
| DC170-30-07.938A1- | 7.938 | 0.3125 | 5/16" | 244 | 294 | 256 | 36 | 8 | 😐 |
| DC170-30-08.000A1- | 8 | 0.3150 | | 244 | 294 | 256 | 36 | 8 | 😐 |
| DC170-30-08.500A1- | 8.5 | 0.3346 | | 273 | 330 | 287 | 40 | 10 | 😐 |
| DC170-30-08.731A1- | 8.731 | 0.3437 | 11/32" | 273 | 330 | 287 | 40 | 10 | 😐 |
| DC170-30-09.000A1- | 9 | 0.3543 | | 273 | 330 | 287 | 40 | 10 | 😐 |
| DC170-30-09.525A1- | 9.525 | 0.3750 | 3/8" | 305 | 364 | 320 | 40 | 10 | 😐 |
| DC170-30-10.000A1- | 10 | 0.3937 | | 305 | 364 | 320 | 40 | 10 | 😐 |
| DC170-30-10.200A1- | 10.2 | 0.4016 | | 335 | 401 | 352 | 45 | 12 | 😐 |
| DC170-30-11.000A1- | 11 | 0.4331 | | 335 | 401 | 352 | 45 | 12 | 😐 |
| DC170-30-11.113A1- | 11.113 | 0.4375 | 7/16" | 364 | 430 | 382 | 45 | 12 | 😐 |
| DC170-30-12.000A1- | 12 | 0.4724 | | 364 | 430 | 382 | 45 | 12 | 😐 |

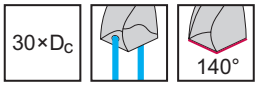
Ordering example for the grade WJ30EJ: DC170-30-03.000A1-WJ30EJ

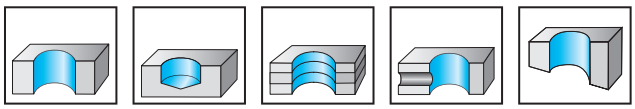
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through
## DC160 Advance
## X-treme Evo

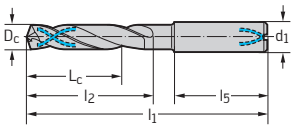


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EU | ●● | ● | ●● | ●● | ●● | ● | ● |

B1

### Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-30-03.000A1- | 3 | 0.1181 | | 92 | 132 | 97 | 28 | 4 | ☺ |
| DC160-30-03.175A1- | 3.175 | 0.1250 | 1/8" | 114 | 166 | 120 | 28 | 4 | ☺ |
| DC160-30-03.500A1- | 3.5 | 0.1378 | | 127 | 166 | 133 | 28 | 4 | ☺ |
| DC160-30-03.572A1- | 3.572 | 0.1406 | 9/64" | 127 | 166 | 133 | 28 | 4 | ☺ |
| DC160-30-03.969A1- | 3.969 | 0.1563 | 5/32" | 127 | 166 | 133 | 28 | 4 | ☺ |
| DC160-30-04.000A1- | 4 | 0.1575 | | 127 | 166 | 133 | 28 | 4 | ☺ |
| DC160-30-04.500A1- | 4.5 | 0.1772 | | 162 | 200 | 169 | 28 | 5 | ☺ |
| DC160-30-04.763A1- | 4.763 | 0.1875 | 3/16" | 161 | 200 | 169 | 28 | 5 | ☺ |
| DC160-30-04.800A1- | 4.8 | 0.1890 | | 161 | 200 | 169 | 28 | 5 | ☺ |
| DC160-30-05.000A1- | 5 | 0.1969 | | 161 | 200 | 169 | 28 | 5 | ☺ |
| DC160-30-05.500A1- | 5.5 | 0.2165 | | 178 | 225 | 187 | 36 | 6 | ☺ |
| DC160-30-05.556A1- | 5.556 | 0.2187 | 7/32" | 195 | 242 | 204 | 36 | 6 | ☺ |
| DC160-30-05.800A1- | 5.8 | 0.2283 | | 195 | 242 | 204 | 36 | 6 | ☺ |
| DC160-30-06.000A1- | 6 | 0.2362 | | 195 | 242 | 204 | 36 | 6 | ☺ |
| DC160-30-06.100A1- | 6.1 | 0.2402 | | 217 | 268 | 228 | 36 | 8 | ☺ |
| DC160-30-06.350A1- | 6.35 | 0.2500 | 1/4" | 217 | 268 | 228 | 36 | 8 | ☺ |
| DC160-30-06.500A1- | 6.5 | 0.2559 | | 217 | 268 | 228 | 36 | 8 | ☺ |
| DC160-30-06.800A1- | 6.8 | 0.2677 | | 217 | 268 | 228 | 36 | 8 | ☺ |
| DC160-30-07.000A1- | 7 | 0.2756 | | 217 | 268 | 228 | 36 | 8 | ☺ |
| DC160-30-07.144A1- | 7.144 | 0.2813 | 9/32" | 244 | 294 | 256 | 36 | 8 | ☺ |
| DC160-30-07.400A1- | 7.4 | 0.2913 | | 244 | 294 | 256 | 36 | 8 | ☺ |
| DC160-30-07.500A1- | 7.5 | 0.2953 | | 244 | 294 | 256 | 36 | 8 | ☺ |
| DC160-30-07.938A1- | 7.938 | 0.3125 | 5/16" | 244 | 294 | 256 | 36 | 8 | ☺ |
| DC160-30-08.000A1- | 8 | 0.3150 | | 244 | 294 | 256 | 36 | 8 | ☺ |
| DC160-30-08.300A1- | 8.3 | 0.3268 | | 273 | 330 | 287 | 40 | 10 | ☺ |
| DC160-30-08.500A1- | 8.5 | 0.3346 | | 273 | 330 | 287 | 40 | 10 | ☺ |
| DC160-30-08.731A1- | 8.731 | 0.3437 | 11/32" | 273 | 330 | 287 | 40 | 10 | ☺ |
| DC160-30-09.000A1- | 9 | 0.3543 | | 273 | 330 | 287 | 40 | 10 | ☺ |
| DC160-30-09.525A1- | 9.525 | 0.3750 | 3/8" | 305 | 364 | 320 | 40 | 10 | ☺ |
| DC160-30-09.800A1- | 9.8 | 0.3858 | | 305 | 364 | 320 | 40 | 10 | ☺ |
| DC160-30-10.000A1- | 10 | 0.3937 | | 305 | 364 | 320 | 40 | 10 | ☺ |
| DC160-30-10.200A1- | 10.2 | 0.4016 | | 335 | 401 | 352 | 45 | 12 | ☺ |
| DC160-30-10.319A1- | 10.319 | 0.4063 | 13/32" | 335 | 401 | 352 | 45 | 12 | ☺ |
| DC160-30-11.000A1- | 11 | 0.4331 | | 335 | 401 | 352 | 45 | 12 | ☺ |
| DC160-30-11.113A1- | 11.113 | 0.4375 | 7/16" | 364 | 430 | 382 | 45 | 12 | ☺ |

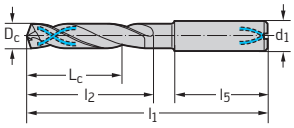
Ordering example for the grade WJ30EU: DC160-30-03.000A1-WJ30EU

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



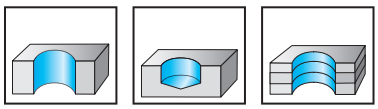

DIN 6535 HA

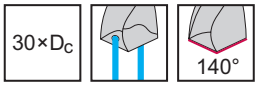
| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EU |
|---|---|---|---|---|---|---|---|---|---|
| DC160-30-11.500A1- | 11.5 | 0.4528 | | 364 | 430 | 382 | 45 | 12 | ● |
| DC160-30-11.800A1- | 11.8 | 0.4646 | | 364 | 430 | 382 | 45 | 12 | ● |
| DC160-30-11.906A1- | 11.906 | 0.4687 | 15/32" | 364 | 430 | 382 | 45 | 12 | ● |
| DC160-30-12.000A1- | 12 | 0.4724 | | 364 | 430 | 382 | 45 | 12 | ● |

Ordering example for the grade WJ30EU: DC160-30-03.000A1-WJ30EU

B1

# Solid carbide micro drills with coolant-through
# DB133 Supreme

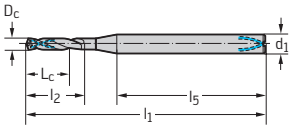





B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| ★ DB133-30-02.000A1- | 2 | 0.0787 | | 64 | 112 | 67 | 40 | 3 | |
| ★ DB133-30-02.100A1- | 2.1 | 0.0827 | | 66 | 112 | 70 | 38 | 3 | |
| ★ DB133-30-02.200A1- | 2.2 | 0.0866 | | 70 | 112 | 74 | 34 | 3 | |
| ★ DB133-30-02.300A1- | 2.3 | 0.0906 | | 73 | 122 | 77 | 41 | 3 | |
| ★ DB133-30-02.381A1- | 2.381 | 0.0937 | 3/32" | 76 | 122 | 80 | 38 | 3 | |
| ★ DB133-30-02.400A1- | 2.4 | 0.0945 | | 76 | 122 | 80 | 38 | 3 | |
| ★ DB133-30-02.500A1- | 2.5 | 0.0984 | | 80 | 122 | 84 | 34 | 3 | |
| ★ DB133-30-02.600A1- | 2.6 | 0.1024 | | 83 | 136 | 87 | 45 | 3 | |
| ★ DB133-30-02.700A1- | 2.7 | 0.1063 | | 85 | 136 | 90 | 42 | 3 | |
| ★ DB133-30-02.778A1- | 2.778 | 0.1094 | 7/64" | 89 | 136 | 94 | 38 | 3 | |
| ★ DB133-30-02.800A1- | 2.8 | 0.1102 | | 89 | 136 | 94 | 38 | 3 | |
| ★ DB133-30-02.900A1- | 2.9 | 0.1142 | | 92 | 136 | 97 | 36 | 3 | |

Ordering example for the grade WJ30ER: DB133-30-02.000A1-WJ30ER

**WALTER SELECT**

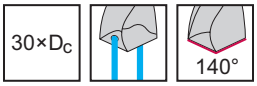
●● Primary application ● Other application

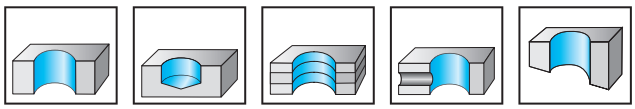
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through

## A6994TFP

## X-treme DH30



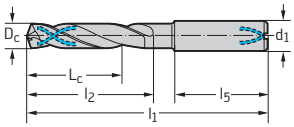





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TFP | ●● | ● | ● | ● | ● | ● | |

B1

## Tool




DIN 6535 HA

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A6994TFP-3 | 3 | 0.1181 | | 92 | 140 | 97 | 36 | 6 |
| A6994TFP-1/8IN | 3.175 | 0.1250 | 1/8" | 127 | 174 | 133 | 36 | 6 |
| A6994TFP-3.5 | 3.5 | 0.1378 | | 127 | 174 | 133 | 36 | 6 |
| A6994TFP-9/64IN | 3.572 | 0.1406 | 9/64" | 127 | 174 | 133 | 36 | 6 |
| A6994TFP-5/32IN | 3.969 | 0.1563 | 5/32" | 127 | 174 | 133 | 36 | 6 |
| A6994TFP-4 | 4 | 0.1575 | | 127 | 174 | 133 | 36 | 6 |
| A6994TFP-4.5 | 4.5 | 0.1772 | | 161 | 208 | 169 | 36 | 6 |
| A6994TFP-3/16IN | 4.763 | 0.1875 | 3/16" | 161 | 208 | 169 | 36 | 6 |
| A6994TFP-4.8 | 4.8 | 0.1890 | | 161 | 208 | 169 | 36 | 6 |
| A6994TFP-5 | 5 | 0.1969 | | 161 | 208 | 169 | 36 | 6 |
| A6994TFP-5.5 | 5.5 | 0.2165 | | 178 | 225 | 187 | 36 | 6 |
| A6994TFP-7/32IN | 5.556 | 0.2187 | 7/32" | 195 | 242 | 204 | 36 | 6 |
| A6994TFP-6 | 6 | 0.2362 | | 195 | 242 | 204 | 36 | 6 |
| A6994TFP-1/4IN | 6.35 | 0.2500 | 1/4" | 217 | 268 | 228 | 36 | 8 |
| A6994TFP-6.5 | 6.5 | 0.2559 | | 217 | 268 | 228 | 36 | 8 |
| A6994TFP-6.8 | 6.8 | 0.2677 | | 217 | 268 | 228 | 36 | 8 |
| A6994TFP-7 | 7 | 0.2756 | | 217 | 268 | 228 | 36 | 8 |
| A6994TFP-8 | 8 | 0.3150 | | 244 | 294 | 256 | 36 | 8 |
| A6994TFP-8.3 | 8.3 | 0.3268 | | 273 | 330 | 287 | 40 | 10 |
| A6994TFP-8.5 | 8.5 | 0.3346 | | 273 | 330 | 287 | 40 | 10 |
| A6994TFP-11/32IN | 8.731 | 0.3437 | 11/32" | 273 | 330 | 287 | 40 | 10 |
| A6994TFP-9 | 9 | 0.3543 | | 273 | 330 | 287 | 40 | 10 |
| A6994TFP-10 | 10 | 0.3937 | | 305 | 364 | 320 | 40 | 10 |

**WALTER SELECT**

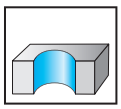
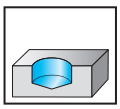
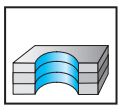
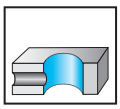
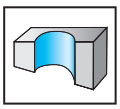
●● Primary application ● Other application

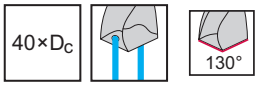
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through

## A7495TTP

## X-treme D40

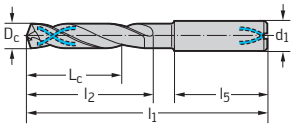









| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TTP | ●● | ● | ●● | ●● | | | |

B1

### Tool




DIN 6535 HA

| Designation | e7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A7495TTP-3 | 3 | 0.1181 | | 134 | 172 | 139 | 28 | 4 |
| A7495TTP-1/8IN | 3.175 | 0.1250 | 1/8" | 134 | 172 | 139 | 28 | 4 |
| A7495TTP-3.5 | 3.5 | 0.1378 | | 150 | 188 | 156 | 28 | 4 |
| A7495TTP-9/64IN | 3.572 | 0.1406 | 9/64" | 150 | 188 | 156 | 28 | 4 |
| A7495TTP-5/32IN | 3.969 | 0.1563 | 5/32" | 168 | 206 | 174 | 28 | 4 |
| A7495TTP-4 | 4 | 0.1575 | | 168 | 206 | 174 | 28 | 4 |
| A7495TTP-4.5 | 4.5 | 0.1772 | | 188 | 228 | 195 | 28 | 5 |
| A7495TTP-3/16IN | 4.763 | 0.1875 | 3/16" | 209 | 249 | 217 | 28 | 5 |
| A7495TTP-4.8 | 4.8 | 0.189 | | 209 | 249 | 217 | 28 | 5 |
| A7495TTP-5 | 5 | 0.1969 | | 209 | 249 | 217 | 28 | 5 |
| A7495TTP-5.5 | 5.5 | 0.2165 | | 230 | 279 | 239 | 36 | 6 |
| A7495TTP-7/32IN | 5.556 | 0.2187 | 7/32" | 248 | 297 | 257 | 36 | 6 |
| A7495TTP-5.8 | 5.8 | 0.2283 | | 248 | 297 | 257 | 36 | 6 |
| A7495TTP-6 | 6 | 0.2362 | | 248 | 297 | 257 | 36 | 6 |
| A7495TTP-6.1 | 6.1 | 0.2402 | | 272 | 324 | 282 | 36 | 8 |
| A7495TTP-1/4IN | 6.35 | 0.2500 | 1/4" | 272 | 324 | 282 | 36 | 8 |
| A7495TTP-6.5 | 6.5 | 0.2559 | | 272 | 324 | 282 | 36 | 8 |
| A7495TTP-6.8 | 6.8 | 0.2677 | | 287 | 339 | 298 | 36 | 8 |
| A7495TTP-7 | 7 | 0.2756 | | 287 | 339 | 298 | 36 | 8 |
| A7495TTP-9/32IN | 7.144 | 0.2813 | 9/32" | 313 | 366 | 325 | 36 | 8 |
| A7495TTP-7.5 | 7.5 | 0.2953 | | 313 | 366 | 325 | 36 | 8 |
| A7495TTP-5/16IN | 7.938 | 0.3125 | 5/16" | 330 | 382 | 342 | 36 | 8 |
| A7495TTP-8 | 8 | 0.3150 | | 330 | 382 | 342 | 36 | 8 |
| A7495TTP-8.5 | 8.5 | 0.3346 | | 356 | 415 | 369 | 40 | 10 |
| A7495TTP-11/32IN | 8.731 | 0.3437 | 11/32" | 371 | 430 | 385 | 40 | 10 |
| A7495TTP-9 | 9 | 0.3543 | | 371 | 430 | 385 | 40 | 10 |
| A7495TTP-3/8IN | 9.525 | 0.3750 | 3/8" | 418 | 477 | 412 | 40 | 10 |
| A7495TTP-9.8 | 9.8 | 0.3858 | | 418 | 477 | 433 | 40 | 10 |
| A7495TTP-10 | 10 | 0.3937 | | 418 | 477 | 433 | 40 | 10 |
| A7495TTP-10.2 | 10.2 | 0.4016 | | 460 | 528 | 477 | 45 | 12 |
| A7495TTP-11 | 11 | 0.4331 | | 460 | 528 | 477 | 45 | 12 |

**WALTER SELECT**

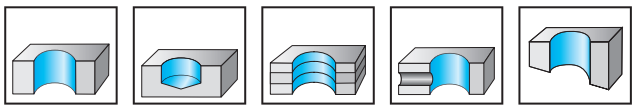
●● Primary application ● Other application

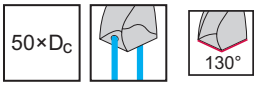
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide drills with coolant-through

## A7595TTP

## X-treme D50

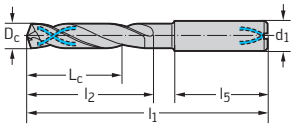





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TTP | ●● | ● | ●● | ●● | | | |



### Tool




DIN 6535 HA

| Designation | e7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A7595TTP-3 | 3 | 0.1181 | | 166 | 204 | 171 | 28 | 4 |
| A7595TTP-1/8IN | 3.175 | 0.1250 | 1/8" | 166 | 204 | 171 | 28 | 4 |
| A7595TTP-3.5 | 3.5 | 0.1378 | | 186 | 224 | 192 | 28 | 4 |
| A7595TTP-9/64IN | 3.572 | 0.1406 | 9/64" | 186 | 224 | 192 | 28 | 4 |
| A7595TTP-5/32IN | 3.969 | 0.1563 | 5/32" | 203 | 239 | 209 | 28 | 4 |
| A7595TTP-4 | 4 | 0.1575 | | 203 | 239 | 209 | 28 | 4 |
| A7595TTP-4.5 | 4.5 | 0.1772 | | 233 | 273 | 240 | 28 | 5 |
| A7595TTP-3/16IN | 4.763 | 0.1875 | 3/16" | 259 | 299 | 267 | 28 | 5 |
| A7595TTP-4.8 | 4.8 | 0.189 | | 259 | 299 | 267 | 28 | 5 |
| A7595TTP-5 | 5 | 0.1969 | | 259 | 299 | 267 | 28 | 5 |
| A7595TTP-5.5 | 5.5 | 0.2165 | | 285 | 334 | 294 | 36 | 6 |
| A7595TTP-7/32IN | 5.556 | 0.2187 | 7/32" | 308 | 357 | 317 | 36 | 6 |
| A7595TTP-6 | 6 | 0.2362 | | 308 | 357 | 317 | 36 | 6 |
| A7595TTP-6.1 | 6.1 | 0.2402 | | 337 | 389 | 347 | 36 | 8 |
| A7595TTP-1/4IN | 6.35 | 0.2500 | 1/4" | 337 | 389 | 347 | 36 | 8 |
| A7595TTP-6.5 | 6.5 | 0.2559 | | 337 | 389 | 347 | 36 | 8 |
| A7595TTP-6.8 | 6.8 | 0.2677 | | 357 | 409 | 368 | 36 | 8 |
| A7595TTP-7 | 7 | 0.2756 | | 357 | 409 | 368 | 36 | 8 |
| A7595TTP-5/16IN | 7.938 | 0.3125 | 5/16" | 410 | 462 | 422 | 36 | 8 |
| A7595TTP-8 | 8 | 0.3150 | | 410 | 462 | 422 | 36 | 8 |
| A7595TTP-8.3 | 8.3 | 0.3268 | | 441 | 500 | 454 | 40 | 10 |
| A7595TTP-8.5 | 8.5 | 0.3346 | | 441 | 500 | 454 | 40 | 10 |
| A7595TTP-11/32IN | 8.731 | 0.3437 | 11/32" | 466 | 525 | 480 | 40 | 10 |
| A7595TTP-9 | 9 | 0.3543 | | 466 | 525 | 480 | 40 | 10 |

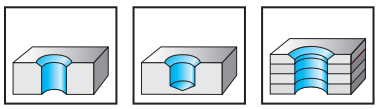
**WALTER SELECT**

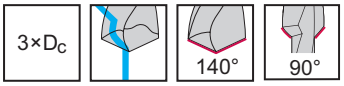
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide twist drills
## DC260 Advance
## X-treme Evo

– Step length in accordance with DIN 8378
– For threaded core hole drilling

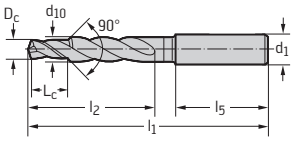





B1

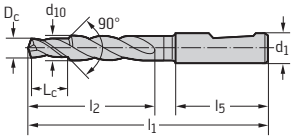
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | | ●● | ● | ● | ● | ● |

## Tool




DIN 6535 HA

| Designation | For threads | $D_c$ mm | $D_c$ in | $d_{10}$ mm | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|---|
| DC260-03-03.300A0- | M 4 | 3.3 | 0.1299 | 5 | 11 | 66 | 28 | 36 | 6 | ☹ |
| DC260-03-04.200A0- | M 5 | 4.2 | 0.1654 | 6 | 14 | 66 | 28 | 36 | 6 | ☹ |
| DC260-03-05.000A0- | M 6 | 5 | 0.1969 | 8 | 17 | 79 | 41 | 36 | 8 | ☹ |
| DC260-03-06.800A0- | M 8 | 6.8 | 0.2677 | 10 | 21 | 89 | 47 | 40 | 10 | ☹ |
| DC260-03-08.500A0- | M 10 | 8.5 | 0.3346 | 12 | 26 | 102 | 55 | 45 | 12 | ☹ |
| DC260-03-10.200A0- | M 12 | 10.2 | 0.4016 | 14 | 30 | 107 | 60 | 45 | 14 | ☹ |
| DC260-03-12.000A0- | M 14 | 12 | 0.4724 | 16 | 35 | 115 | 65 | 48 | 16 | ☹ |
| DC260-03-14.000A0- | M 16 | 14 | 0.5512 | 18 | 39 | 123 | 73 | 48 | 18 | ☹ |




DIN 6535 HE

| Designation | For threads | $D_c$ mm | $D_c$ in | $d_{10}$ mm | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|---|
| DC260-03-03.300F0- | M 4 | 3.3 | 0.1299 | 5 | 11 | 66 | 28 | 36 | 6 | ☹ |
| DC260-03-04.200F0- | M 5 | 4.2 | 0.1654 | 6 | 14 | 66 | 28 | 36 | 6 | ☹ |
| DC260-03-05.000F0- | M 6 | 5 | 0.1969 | 8 | 17 | 79 | 41 | 36 | 8 | ☹ |
| DC260-03-06.800F0- | M 8 | 6.8 | 0.2677 | 10 | 21 | 89 | 47 | 40 | 10 | ☹ |
| DC260-03-07.000F0- | M 8 X 1 | 7 | 0.2756 | 10 | 21 | 89 | 47 | 40 | 10 | ☹ |
| DC260-03-08.500F0- | M 10 | 8.5 | 0.3346 | 12 | 26 | 102 | 55 | 45 | 12 | ☹ |
| DC260-03-09.000F0- | M 10 X 1 | 9 | 0.3543 | 12 | 26 | 102 | 55 | 45 | 12 | ☹ |
| DC260-03-10.200F0- | M 12 | 10.2 | 0.4016 | 14 | 30 | 107 | 60 | 45 | 14 | ☹ |
| DC260-03-10.500F0- | M 12 X 1.5 | 10.5 | 0.4134 | 14 | 30 | 107 | 60 | 45 | 14 | ☹ |
| DC260-03-12.000F0- | M 14 | 12 | 0.4724 | 16 | 35 | 115 | 65 | 48 | 16 | ☹ |
| DC260-03-12.500F0- | M 14 X 1.5 | 12.5 | 0.4921 | 16 | 35 | 115 | 65 | 48 | 16 | ☹ |
| DC260-03-14.000F0- | M 16 | 14 | 0.5512 | 18 | 39 | 123 | 73 | 48 | 18 | ☹ |
| DC260-03-14.500F0- | M 16 X 1.5 | 14.5 | 0.5709 | 18 | 39 | 123 | 73 | 48 | 18 | ☹ |

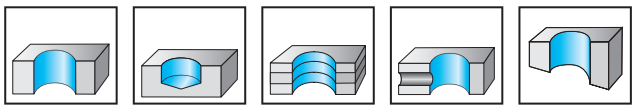
Ordering example for the grade WJ30ET: DC260-03-03.300A0-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for ➔ Good = ☺ ➔ Average = ☹ ➔ Poor = ☠ machining conditions

# Solid carbide twist drills
## DC160 Advance
## X-treme Evo

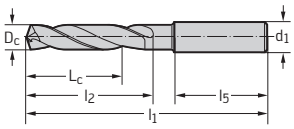


3×$D_c$ | DIN 6537 K | 140°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | | ●● | ● | ● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-03.000A0- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.100A0- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.175A0- | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.200A0- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.250A0- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.300A0- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.400A0- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.500A0- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.572A0- | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.600A0- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.650A0- | 3.65 | 0.1437 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.700A0- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC160-03-03.800A0- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-03.900A0- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-03.969A0- | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.000A0- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.100A0- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.200A0- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.300A0- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.366A0- | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.400A0- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.500A0- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.600A0- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.650A0- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.700A0- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC160-03-04.763A0- | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-04.800A0- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-04.900A0- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.000A0- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.100A0- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.159A0- | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.200A0- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.300A0- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.400A0- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC160-03-05.500A0- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ☺ |

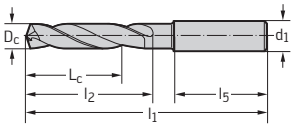
Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



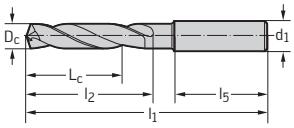

DIN 6535 HA

B1

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-05.550A0- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.556A0- | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.600A0- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.700A0- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.800A0- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.900A0- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-05.953A0- | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-06.000A0- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | |
| DC160-03-06.100A0- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.200A0- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.300A0- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.350A0- | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.400A0- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.500A0- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.600A0- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.700A0- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.747A0- | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.800A0- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.900A0- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.000A0- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.100A0- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.144A0- | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.200A0- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.300A0- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.400A0- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.500A0- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.541A0- | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.550A0- | 7.55 | 0.2972 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.600A0- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.700A0- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.800A0- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.900A0- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.938A0- | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.000A0- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.100A0- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.200A0- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.300A0- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.334A0- | 8.334 | 0.3281 | 21/64" | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.400A0- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.500A0- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.600A0- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.700A0- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.731A0- | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.800A0- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.900A0- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.000A0- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.100A0- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.128A0- | 9.128 | 0.3594 | 23/64" | 35 | 89 | 47 | 40 | 10 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

## Tool

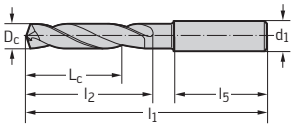



DIN 6535 HA

| Designation | m7 | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-09.200A0- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.300A0- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.400A0- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.500A0- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.525A0- | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.550A0- | 9.55 | 0.3760 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.600A0- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.700A0- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.800A0- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.900A0- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-09.922A0- | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-10.000A0- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC160-03-10.100A0- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.200A0- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.300A0- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.319A0- | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.400A0- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.500A0- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.600A0- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.700A0- | 10.7 | 0.4213 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.716A0- | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.800A0- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-10.900A0- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.000A0- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.100A0- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.113A0- | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.200A0- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.300A0- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.400A0- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.500A0- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.509A0- | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.550A0- | 11.55 | 0.4547 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.700A0- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.800A0- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.900A0- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.906A0- | 11.906 | 0.4687 | 15/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.000A0- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.100A0- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.200A0- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.250A0- | 12.25 | 0.4823 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.300A0- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.303A0- | 12.303 | 0.4844 | 31/64" | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.400A0- | 12.4 | 0.4882 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.500A0- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.600A0- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.700A0- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.750A0- | 12.75 | 0.5020 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.800A0- | 12.8 | 0.5039 | | 43 | 107 | 60 | 45 | 14 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

## Tool



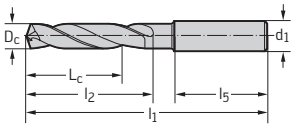

DIN 6535 HA

B1

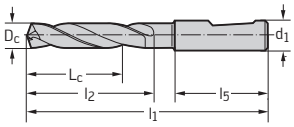
| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-12.900A0- | 12.9 | 0.5079 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.000A0- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.100A0- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.200A0- | 13.2 | 0.5197 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.300A0- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.400A0- | 13.4 | 0.5276 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.494A0- | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.500A0- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.600A0- | 13.6 | 0.5354 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.700A0- | 13.7 | 0.5394 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.800A0- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-13.900A0- | 13.9 | 0.5472 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-14.000A0- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | |
| DC160-03-14.100A0- | 14.1 | 0.5551 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.200A0- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.288A0- | 14.288 | 0.5625 | 9/16" | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.300A0- | 14.3 | 0.5630 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.400A0- | 14.4 | 0.5669 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.500A0- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.600A0- | 14.6 | 0.5748 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.700A0- | 14.7 | 0.5787 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-14.800A0- | 14.8 | 0.5827 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.000A0- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.100A0- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.200A0- | 15.2 | 0.5984 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.300A0- | 15.3 | 0.6024 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.500A0- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.600A0- | 15.6 | 0.6142 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.700A0- | 15.7 | 0.6181 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.800A0- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.875A0- | 15.875 | 0.6250 | 5/8" | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.900A0- | 15.9 | 0.6260 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-16.000A0- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-16.100A0- | 16.1 | 0.6339 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.200A0- | 16.2 | 0.6378 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.300A0- | 16.3 | 0.6417 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.500A0- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.600A0- | 16.6 | 0.6535 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.700A0- | 16.7 | 0.6575 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.750A0- | 16.75 | 0.6594 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.800A0- | 16.8 | 0.6614 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.000A0- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.200A0- | 17.2 | 0.6772 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.300A0- | 17.3 | 0.6811 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.500A0- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.600A0- | 17.6 | 0.6929 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.700A0- | 17.7 | 0.6969 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.800A0- | 17.8 | 0.7008 | | 51 | 123 | 73 | 48 | 18 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

## Tool




DIN 6535 HA

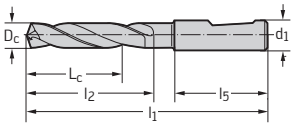



DIN 6535 HE

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-18.000A0- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC160-03-18.200A0- | 18.2 | 0.7165 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.500A0- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.700A0- | 18.7 | 0.7362 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-18.800A0- | 18.8 | 0.7402 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.000A0- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.050A0- | 19.05 | 0.7500 | 3/4" | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.500A0- | 19.5 | 0.7677 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.700A0- | 19.7 | 0.7756 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-19.800A0- | 19.8 | 0.7795 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-20.000A0- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC160-03-03.000F0- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.100F0- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.200F0- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.250F0- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.300F0- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.400F0- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.500F0- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.600F0- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.650F0- | 3.65 | 0.1437 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.700F0- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC160-03-03.800F0- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-03.900F0- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.000F0- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.100F0- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.200F0- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.300F0- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.400F0- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.500F0- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.600F0- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.650F0- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.700F0- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC160-03-04.800F0- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-04.900F0- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.000F0- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.100F0- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.200F0- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.300F0- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.400F0- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.500F0- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.550F0- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.600F0- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.700F0- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.800F0- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-05.900F0- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-06.000F0- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC160-03-06.100F0- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC160-03-06.200F0- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

## Tool



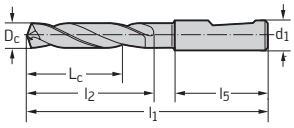

DIN 6535 HE

B1

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-06.300F0- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.400F0- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.500F0- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.600F0- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.700F0- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.800F0- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-06.900F0- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.000F0- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |
| DC160-03-07.100F0- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.200F0- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.300F0- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.400F0- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.500F0- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.550F0- | 7.55 | 0.2972 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.600F0- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.700F0- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.800F0- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-07.900F0- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.000F0- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC160-03-08.100F0- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.200F0- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.300F0- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.400F0- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.500F0- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.600F0- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.700F0- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.800F0- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-08.900F0- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.000F0- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.100F0- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.200F0- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.300F0- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.400F0- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.500F0- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.550F0- | 9.55 | 0.3760 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.600F0- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.700F0- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.800F0- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-09.900F0- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-10.000F0- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | |
| DC160-03-10.100F0- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.200F0- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.300F0- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.400F0- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.500F0- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.600F0- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.700F0- | 10.7 | 0.4213 | | 40 | 102 | 55 | 45 | 12 | |
| DC160-03-10.800F0- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

## Tool

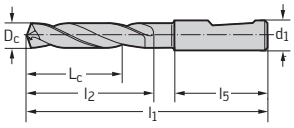



DIN 6535 HE

| Designation | m7 | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-10.900F0- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.000F0- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.100F0- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.200F0- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.300F0- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.400F0- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.500F0- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.550F0- | 11.55 | 0.4547 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.600F0- | 11.6 | 0.4567 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.700F0- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.800F0- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-11.900F0- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.000F0- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC160-03-12.100F0- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.200F0- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.250F0- | 12.25 | 0.4823 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.300F0- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.400F0- | 12.4 | 0.4882 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.500F0- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.600F0- | 12.6 | 0.4961 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.700F0- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.750F0- | 12.75 | 0.5020 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.800F0- | 12.8 | 0.5039 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-12.900F0- | 12.9 | 0.5079 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.000F0- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.100F0- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.200F0- | 13.2 | 0.5197 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.300F0- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.400F0- | 13.4 | 0.5276 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.500F0- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.600F0- | 13.6 | 0.5354 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.700F0- | 13.7 | 0.5394 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.800F0- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-13.900F0- | 13.9 | 0.5472 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-14.000F0- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC160-03-14.100F0- | 14.1 | 0.5551 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.200F0- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.300F0- | 14.3 | 0.5630 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.400F0- | 14.4 | 0.5669 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.500F0- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.600F0- | 14.6 | 0.5748 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.700F0- | 14.7 | 0.5787 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.750F0- | 14.75 | 0.5807 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-14.800F0- | 14.8 | 0.5827 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.000F0- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.100F0- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.200F0- | 15.2 | 0.5984 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC160-03-15.300F0- | 15.3 | 0.6024 | | 45 | 115 | 65 | 48 | 16 | ● |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

## Tool




DIN 6535 HE

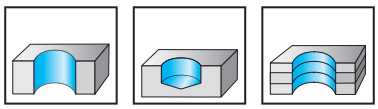
| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-03-15.500F0- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.600F0- | 15.6 | 0.6142 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.700F0- | 15.7 | 0.6181 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.800F0- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-15.900F0- | 15.9 | 0.6260 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-16.000F0- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | |
| DC160-03-16.100F0- | 16.1 | 0.6339 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.200F0- | 16.2 | 0.6378 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.300F0- | 16.3 | 0.6417 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.400F0- | 16.4 | 0.6457 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.500F0- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.600F0- | 16.6 | 0.6535 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.700F0- | 16.7 | 0.6575 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.750F0- | 16.75 | 0.6594 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-16.800F0- | 16.8 | 0.6614 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.000F0- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.200F0- | 17.2 | 0.6772 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.300F0- | 17.3 | 0.6811 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.500F0- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.600F0- | 17.6 | 0.6929 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.700F0- | 17.7 | 0.6969 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-17.800F0- | 17.8 | 0.7008 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-18.000F0- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | |
| DC160-03-18.200F0- | 18.2 | 0.7165 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-18.500F0- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-18.700F0- | 18.7 | 0.7362 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-18.800F0- | 18.8 | 0.7402 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-19.000F0- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-19.500F0- | 19.5 | 0.7677 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-19.700F0- | 19.7 | 0.7756 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-19.800F0- | 19.8 | 0.7795 | | 55 | 131 | 79 | 50 | 20 | |
| DC160-03-20.000F0- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | |

Ordering example for the grade WJ30ET: DC160-03-03.000A0-WJ30ET

# Solid carbide twist drills
# DC150 Perform



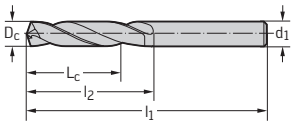
– Up to 1.9 mm dimensions in accordance with DIN 1897




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30RE | ●● | ● | ●● | ● | ● | ● | ● |

B1

## Tool




Cylindrical shank

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|
| DC150-03-01.500U0- | 1.5 | 0.0591 | | 6 | 32 | 9 | 1.5 | 😐 |
| DC150-03-01.588U0- | 1.588 | 0.0625 | 1/16" | 7 | 34 | 10 | 1.588 | 😐 |
| DC150-03-01.600U0- | 1.6 | 0.0630 | | 7 | 34 | 10 | 1.6 | 😐 |
| DC150-03-01.700U0- | 1.7 | 0.0669 | | 7 | 34 | 10 | 1.7 | 😐 |
| DC150-03-01.800U0- | 1.8 | 0.0709 | | 8 | 36 | 11 | 1.8 | 😐 |
| DC150-03-01.820U0- | 1.82 | 0.0717 | | 8 | 36 | 11 | 1.82 | 😐 |
| DC150-03-01.900U0- | 1.9 | 0.0748 | | 8 | 36 | 11 | 1.9 | 😐 |
| DC150-03-01.984U0- | 1.984 | 0.0781 | 5/64" | 8 | 38 | 12 | 1.984 | 😐 |
| DC150-03-02.000U0- | 2 | 0.0787 | | 8 | 38 | 12 | 2 | 😐 |
| DC150-03-02.050U0- | 2.05 | 0.0807 | | 8 | 38 | 12 | 2.05 | 😐 |
| DC150-03-02.100U0- | 2.1 | 0.0827 | | 8 | 38 | 12 | 2.1 | 😐 |
| DC150-03-02.200U0- | 2.2 | 0.0866 | | 9 | 40 | 13 | 2.2 | 😐 |
| DC150-03-02.300U0- | 2.3 | 0.0906 | | 9 | 40 | 13 | 2.3 | 😐 |
| DC150-03-02.381U0- | 2.381 | 0.0937 | 3/32" | 10 | 43 | 14 | 2.381 | 😐 |
| DC150-03-02.400U0- | 2.4 | 0.0945 | | 10 | 43 | 14 | 2.4 | 😐 |
| DC150-03-02.500U0- | 2.5 | 0.0984 | | 10 | 43 | 14 | 2.5 | 😐 |
| DC150-03-02.600U0- | 2.6 | 0.1024 | | 10 | 43 | 14 | 2.6 | 😐 |
| DC150-03-02.700U0- | 2.7 | 0.1063 | | 11 | 46 | 16 | 2.7 | 😐 |
| DC150-03-02.778U0- | 2.778 | 0.1094 | 7/64" | 11 | 46 | 16 | 2.778 | 😐 |
| DC150-03-02.800U0- | 2.8 | 0.1102 | | 11 | 46 | 16 | 2.8 | 😐 |
| DC150-03-02.900U0- | 2.9 | 0.1142 | | 11 | 46 | 16 | 2.9 | 😐 |

Ordering example for the grade WJ30RE: DC150-03-01.500U0-WJ30RE

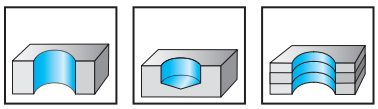
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide twist drills
## DC150 Perform

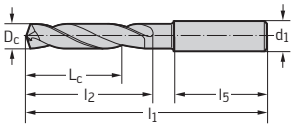


B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30RE | ●● | ● | ●● | ● | ● | ● | ● |

## Tool




DIN 6535 HA

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-03.000A0- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.100A0- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.175A0- | 3.175 | 0.1250 | 1/8" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.200A0- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.250A0- | 3.25 | 0.1280 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.300A0- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.400A0- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.500A0- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.572A0- | 3.572 | 0.1406 | 9/64" | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.600A0- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.700A0- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ☺ |
| DC150-03-03.800A0- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-03.900A0- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-03.969A0- | 3.969 | 0.1563 | 5/32" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.000A0- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.100A0- | 4.1 | 0.1614 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.200A0- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.300A0- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.366A0- | 4.366 | 0.1719 | 11/64" | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.400A0- | 4.4 | 0.1732 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.500A0- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.600A0- | 4.6 | 0.1811 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.650A0- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.700A0- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ☺ |
| DC150-03-04.763A0- | 4.763 | 0.1875 | 3/16" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-04.800A0- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-04.900A0- | 4.9 | 0.1929 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.000A0- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.100A0- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.159A0- | 5.159 | 0.2031 | 13/64" | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.200A0- | 5.2 | 0.2047 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.300A0- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.400A0- | 5.4 | 0.2126 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.500A0- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ☺ |
| DC150-03-05.550A0- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | ☺ |

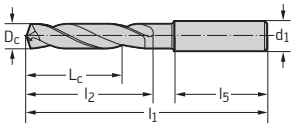
Ordering example for the grade WJ30RE: DC150-03-03.000A0-WJ30RE

**WALTER SELECT**

●● Primary application ● Other application

Best tool for ➔ Good = ☺ ➔ Average = 😐 ➔ Poor = ☹ machining conditions

## Tool

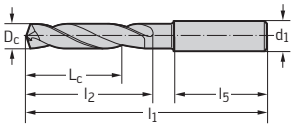



DIN 6535 HA

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-05.556A0- | 5.556 | 0.2187 | 7/32" | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.600A0- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.700A0- | 5.7 | 0.2244 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.800A0- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.900A0- | 5.9 | 0.2323 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-05.953A0- | 5.953 | 0.2344 | 15/64" | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-06.000A0- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | |
| DC150-03-06.100A0- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.200A0- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.300A0- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.350A0- | 6.35 | 0.2500 | 1/4" | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.400A0- | 6.4 | 0.2520 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.500A0- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.600A0- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.700A0- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.747A0- | 6.747 | 0.2656 | 17/64" | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.800A0- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-06.900A0- | 6.9 | 0.2717 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-07.000A0- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | |
| DC150-03-07.100A0- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.144A0- | 7.144 | 0.2813 | 9/32" | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.200A0- | 7.2 | 0.2835 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.300A0- | 7.3 | 0.2874 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.400A0- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.500A0- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.541A0- | 7.541 | 0.2969 | 19/64" | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.600A0- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.700A0- | 7.7 | 0.3031 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.800A0- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.900A0- | 7.9 | 0.3110 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.938A0- | 7.938 | 0.3125 | 5/16" | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-08.000A0- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-08.100A0- | 8.1 | 0.3189 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.200A0- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.300A0- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.334A0- | 8.334 | 0.3281 | 21/64" | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.400A0- | 8.4 | 0.3307 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.500A0- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.600A0- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.700A0- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.731A0- | 8.731 | 0.3437 | 11/32" | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.800A0- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.900A0- | 8.9 | 0.3504 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.000A0- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.100A0- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.200A0- | 9.2 | 0.3622 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.300A0- | 9.3 | 0.3661 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.400A0- | 9.4 | 0.3701 | | 35 | 89 | 47 | 40 | 10 | |

Ordering example for the grade WJ30RE: DC150-03-03.000A0-WJ30RE

## Tool



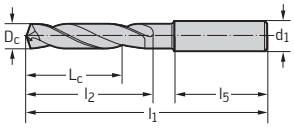

DIN 6535 HA

B1

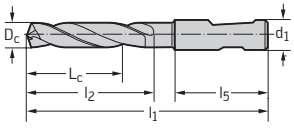
| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-09.500A0- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.525A0- | 9.525 | 0.3750 | 3/8" | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.600A0- | 9.6 | 0.3780 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.700A0- | 9.7 | 0.3819 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.800A0- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.900A0- | 9.9 | 0.3898 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-09.922A0- | 9.922 | 0.3906 | 25/64" | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-10.000A0- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | ● |
| DC150-03-10.100A0- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.200A0- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.300A0- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.319A0- | 10.319 | 0.4063 | 13/32" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.400A0- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.500A0- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.600A0- | 10.6 | 0.4173 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.716A0- | 10.716 | 0.4219 | 27/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-10.800A0- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.000A0- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.100A0- | 11.1 | 0.4370 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.113A0- | 11.113 | 0.4375 | 7/16" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.200A0- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.300A0- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.400A0- | 11.4 | 0.4488 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.500A0- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.509A0- | 11.509 | 0.4531 | 29/64" | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.700A0- | 11.7 | 0.4606 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.800A0- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-11.900A0- | 11.9 | 0.4685 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-12.000A0- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | ● |
| DC150-03-12.100A0- | 12.1 | 0.4764 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.200A0- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.250A0- | 12.25 | 0.4823 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.300A0- | 12.3 | 0.4843 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.303A0- | 12.303 | 0.4844 | 31/64" | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.500A0- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.700A0- | 12.7 | 0.5000 | 1/2" | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-12.800A0- | 12.8 | 0.5039 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.000A0- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.100A0- | 13.1 | 0.5157 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.300A0- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.494A0- | 13.494 | 0.5313 | 17/32" | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-13.500A0- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-14.000A0- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | ● |
| DC150-03-14.200A0- | 14.2 | 0.5591 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-14.288A0- | 14.288 | 0.5625 | 9/16" | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-14.500A0- | 14.5 | 0.5709 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-14.700A0- | 14.7 | 0.5787 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-14.800A0- | 14.8 | 0.5827 | | 45 | 115 | 65 | 48 | 16 | ● |

Ordering example for the grade WJ30RE: DC150-03-03.000A0-WJ30RE

## Tool




DIN 6535 HA

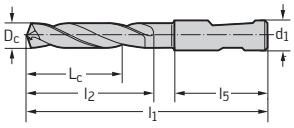



DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-15.000A0- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-15.100A0- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-15.500A0- | 15.5 | 0.6102 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-15.800A0- | 15.8 | 0.6220 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-15.875A0- | 15.875 | 0.6250 | 5/8" | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-16.000A0- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | ● |
| DC150-03-16.500A0- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-16.750A0- | 16.75 | 0.6594 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-17.000A0- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-17.500A0- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-17.800A0- | 17.8 | 0.7008 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-18.000A0- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-19.000A0- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC150-03-20.000A0- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC150-03-03.000D0- | 3 | 0.1181 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.100D0- | 3.1 | 0.1220 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.200D0- | 3.2 | 0.1260 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.300D0- | 3.3 | 0.1299 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.400D0- | 3.4 | 0.1339 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.500D0- | 3.5 | 0.1378 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.600D0- | 3.6 | 0.1417 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.700D0- | 3.7 | 0.1457 | | 14 | 62 | 20 | 36 | 6 | ● |
| DC150-03-03.800D0- | 3.8 | 0.1496 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-03.900D0- | 3.9 | 0.1535 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.000D0- | 4 | 0.1575 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.200D0- | 4.2 | 0.1654 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.300D0- | 4.3 | 0.1693 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.500D0- | 4.5 | 0.1772 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.650D0- | 4.65 | 0.1831 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.700D0- | 4.7 | 0.1850 | | 17 | 66 | 24 | 36 | 6 | ● |
| DC150-03-04.800D0- | 4.8 | 0.1890 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.000D0- | 5 | 0.1969 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.100D0- | 5.1 | 0.2008 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.300D0- | 5.3 | 0.2087 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.500D0- | 5.5 | 0.2165 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.550D0- | 5.55 | 0.2185 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.600D0- | 5.6 | 0.2205 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-05.800D0- | 5.8 | 0.2283 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-06.000D0- | 6 | 0.2362 | | 20 | 66 | 28 | 36 | 6 | ● |
| DC150-03-06.100D0- | 6.1 | 0.2402 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-06.200D0- | 6.2 | 0.2441 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-06.300D0- | 6.3 | 0.2480 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-06.500D0- | 6.5 | 0.2559 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-06.600D0- | 6.6 | 0.2598 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-06.700D0- | 6.7 | 0.2638 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-06.800D0- | 6.8 | 0.2677 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-07.000D0- | 7 | 0.2756 | | 24 | 79 | 34 | 36 | 8 | ● |
| DC150-03-07.100D0- | 7.1 | 0.2795 | | 29 | 79 | 41 | 36 | 8 | ● |

Ordering example for the grade WJ30RE: DC150-03-03.000A0-WJ30RE

## Tool

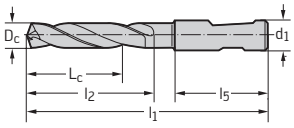



DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-07.400D0- | 7.4 | 0.2913 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.500D0- | 7.5 | 0.2953 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.600D0- | 7.6 | 0.2992 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-07.800D0- | 7.8 | 0.3071 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-08.000D0- | 8 | 0.3150 | | 29 | 79 | 41 | 36 | 8 | |
| DC150-03-08.200D0- | 8.2 | 0.3228 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.300D0- | 8.3 | 0.3268 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.500D0- | 8.5 | 0.3346 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.600D0- | 8.6 | 0.3386 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.700D0- | 8.7 | 0.3425 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-08.800D0- | 8.8 | 0.3465 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.000D0- | 9 | 0.3543 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.100D0- | 9.1 | 0.3583 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.500D0- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.700D0- | 9.5 | 0.3740 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-09.800D0- | 9.8 | 0.3858 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-10.000D0- | 10 | 0.3937 | | 35 | 89 | 47 | 40 | 10 | |
| DC150-03-10.100D0- | 10.1 | 0.3976 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-10.200D0- | 10.2 | 0.4016 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-10.300D0- | 10.3 | 0.4055 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-10.400D0- | 10.4 | 0.4094 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-10.500D0- | 10.5 | 0.4134 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-10.800D0- | 10.8 | 0.4252 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-10.900D0- | 10.9 | 0.4291 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.000D0- | 11 | 0.4331 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.100D0- | 11.1 | 0.43700 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.200D0- | 11.2 | 0.4409 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.300D0- | 11.3 | 0.4449 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.500D0- | 11.5 | 0.4528 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.600D0- | 11.6 | 0.4567 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-11.800D0- | 11.8 | 0.4646 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-12.000D0- | 12 | 0.4724 | | 40 | 102 | 55 | 45 | 12 | |
| DC150-03-12.200D0- | 12.2 | 0.4803 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-12.500D0- | 12.5 | 0.4921 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.000D0- | 13 | 0.5118 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.200D0- | 13.2 | 0.5197 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.300D0- | 13.3 | 0.5236 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.400D0- | 13.4 | 0.5276 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.500D0- | 13.5 | 0.5315 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.600D0- | 13.6 | 0.5354 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-13.800D0- | 13.8 | 0.5433 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-14.000D0- | 14 | 0.5512 | | 43 | 107 | 60 | 45 | 14 | |
| DC150-03-15.000D0- | 15 | 0.5906 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-15.100D0- | 15.1 | 0.5945 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-16.000D0- | 16 | 0.6299 | | 45 | 115 | 65 | 48 | 16 | |
| DC150-03-16.500D0- | 16.5 | 0.6496 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-17.000D0- | 17 | 0.6693 | | 51 | 123 | 73 | 48 | 18 | |
| DC150-03-17.500D0- | 17.5 | 0.6890 | | 51 | 123 | 73 | 48 | 18 | |

Ordering example for the grade WJ30RE: DC150-03-03.000A0-WJ30RE

## Tool




DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | m7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30RE |
|---|---|---|---|---|---|---|---|---|---|
| DC150-03-18.000D0- | 18 | 0.7087 | | 51 | 123 | 73 | 48 | 18 | ● |
| DC150-03-18.500D0- | 18.5 | 0.7283 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC150-03-19.000D0- | 19 | 0.7480 | | 55 | 131 | 79 | 50 | 20 | ● |
| DC150-03-20.000D0- | 20 | 0.7874 | | 55 | 131 | 79 | 50 | 20 | ● |

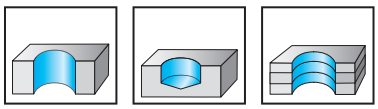
Ordering example for the grade WJ30RE: DC150-03-03.000A0-WJ30RE

B1

# Solid carbide twist drills

## A1163

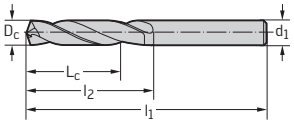
– Type N




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



## Tool




Cylindrical shank

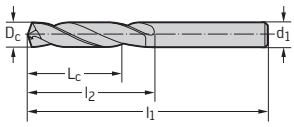
| Designation | h7 mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1163-1 | 1 | 0.0394 | 4 | 26 | 6 | 1 |
| A1163-1.1 | 1.1 | 0.0433 | 5 | 28 | 7 | 1.1 |
| A1163-1.2 | 1.2 | 0.0472 | 6 | 30 | 8 | 1.2 |
| A1163-1.3 | 1.3 | 0.0512 | 6 | 30 | 8 | 1.3 |
| A1163-1.4 | 1.4 | 0.0551 | 6 | 32 | 9 | 1.4 |
| A1163-1.5 | 1.5 | 0.0591 | 6 | 32 | 9 | 1.5 |
| A1163-1.6 | 1.6 | 0.0630 | 7 | 34 | 10 | 1.6 |
| A1163-1.7 | 1.7 | 0.0669 | 7 | 34 | 10 | 1.7 |
| A1163-1.8 | 1.8 | 0.0709 | 8 | 36 | 11 | 1.8 |
| A1163-1.9 | 1.9 | 0.0748 | 8 | 36 | 11 | 1.9 |
| A1163-2 | 2 | 0.0787 | 8 | 38 | 12 | 2 |
| A1163-2.1 | 2.1 | 0.0827 | 8 | 38 | 12 | 2.1 |
| A1163-2.2 | 2.2 | 0.0866 | 9 | 40 | 13 | 2.2 |
| A1163-2.3 | 2.3 | 0.0906 | 9 | 40 | 13 | 2.3 |
| A1163-2.4 | 2.4 | 0.0945 | 10 | 43 | 14 | 2.4 |
| A1163-2.5 | 2.5 | 0.0984 | 10 | 43 | 14 | 2.5 |
| A1163-2.6 | 2.6 | 0.1024 | 10 | 43 | 14 | 2.6 |
| A1163-2.7 | 2.7 | 0.1063 | 11 | 46 | 16 | 2.7 |
| A1163-2.8 | 2.8 | 0.1102 | 11 | 46 | 16 | 2.8 |
| A1163-2.9 | 2.9 | 0.1142 | 11 | 46 | 16 | 2.9 |
| A1163-3 | 3 | 0.1181 | 11 | 46 | 16 | 3 |
| A1163-3.1 | 3.1 | 0.1220 | 12 | 49 | 18 | 3.1 |
| A1163-3.2 | 3.2 | 0.1260 | 12 | 49 | 18 | 3.2 |
| A1163-3.3 | 3.3 | 0.1299 | 12 | 49 | 18 | 3.3 |
| A1163-3.4 | 3.4 | 0.1339 | 14 | 52 | 20 | 3.4 |
| A1163-3.5 | 3.5 | 0.1378 | 14 | 52 | 20 | 3.5 |
| A1163-3.6 | 3.6 | 0.1417 | 14 | 52 | 20 | 3.6 |
| A1163-3.7 | 3.7 | 0.1457 | 14 | 52 | 20 | 3.7 |
| A1163-3.8 | 3.8 | 0.1496 | 15 | 55 | 22 | 3.8 |
| A1163-3.9 | 3.9 | 0.1535 | 15 | 55 | 22 | 3.9 |
| A1163-4 | 4 | 0.1575 | 15 | 55 | 22 | 4 |
| A1163-4.1 | 4.1 | 0.1614 | 15 | 55 | 22 | 4.1 |
| A1163-4.2 | 4.2 | 0.1654 | 15 | 55 | 22 | 4.2 |
| A1163-4.3 | 4.3 | 0.1693 | 16 | 58 | 24 | 4.3 |
| A1163-4.4 | 4.4 | 0.1732 | 16 | 58 | 24 | 4.4 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

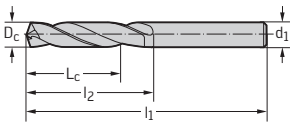
## Tool




Cylindrical shank

| Designation | h7<br>mm | $D_c$<br>in | $L_c$<br>mm | $l_1$<br>mm | $l_2$<br>mm | h6 |
|---|---|---|---|---|---|---|
| A1163-4.5 | 4.5 | 0.1772 | 16 | 58 | 24 | 4.5 |
| A1163-4.6 | 4.6 | 0.1811 | 16 | 58 | 24 | 4.6 |
| A1163-4.7 | 4.7 | 0.1850 | 16 | 58 | 24 | 4.7 |
| A1163-4.8 | 4.8 | 0.1890 | 18 | 62 | 26 | 4.8 |
| A1163-4.9 | 4.9 | 0.1929 | 18 | 62 | 26 | 4.9 |
| A1163-5 | 5 | 0.1969 | 18 | 62 | 26 | 5 |
| A1163-5.1 | 5.1 | 0.2008 | 18 | 62 | 26 | 5.1 |
| A1163-5.2 | 5.2 | 0.2047 | 18 | 62 | 26 | 5.2 |
| A1163-5.3 | 5.3 | 0.2087 | 18 | 62 | 26 | 5.3 |
| A1163-5.4 | 5.4 | 0.2126 | 19 | 66 | 28 | 5.4 |
| A1163-5.5 | 5.5 | 0.2165 | 19 | 66 | 28 | 5.5 |
| A1163-5.6 | 5.6 | 0.2205 | 19 | 66 | 28 | 5.6 |
| A1163-5.7 | 5.7 | 0.2244 | 19 | 66 | 28 | 5.7 |
| A1163-5.8 | 5.8 | 0.2283 | 19 | 66 | 28 | 5.8 |
| A1163-5.9 | 5.9 | 0.2323 | 19 | 66 | 28 | 5.9 |
| A1163-6 | 6 | 0.2362 | 19 | 66 | 28 | 6 |
| A1163-6.1 | 6.1 | 0.2402 | 20 | 70 | 31 | 6.1 |
| A1163-6.2 | 6.2 | 0.2441 | 20 | 70 | 31 | 6.2 |
| A1163-6.3 | 6.3 | 0.2480 | 20 | 70 | 31 | 6.3 |
| A1163-6.4 | 6.4 | 0.2520 | 20 | 70 | 31 | 6.4 |
| A1163-6.5 | 6.5 | 0.2559 | 20 | 70 | 31 | 6.5 |
| A1163-6.6 | 6.6 | 0.2598 | 20 | 70 | 31 | 6.6 |
| A1163-6.7 | 6.7 | 0.2638 | 20 | 70 | 31 | 6.7 |
| A1163-6.8 | 6.8 | 0.2677 | 22 | 74 | 34 | 6.8 |
| A1163-6.9 | 6.9 | 0.2717 | 22 | 74 | 34 | 6.9 |
| A1163-7 | 7 | 0.2756 | 22 | 74 | 34 | 7 |
| A1163-7.1 | 7.1 | 0.2795 | 22 | 74 | 34 | 7.1 |
| A1163-7.2 | 7.2 | 0.2835 | 22 | 74 | 34 | 7.2 |
| A1163-7.3 | 7.3 | 0.2874 | 22 | 74 | 34 | 7.3 |
| A1163-7.4 | 7.4 | 0.2913 | 22 | 74 | 34 | 7.4 |
| A1163-7.5 | 7.5 | 0.2953 | 22 | 74 | 34 | 7.5 |
| A1163-7.6 | 7.6 | 0.2992 | 25 | 79 | 37 | 7.6 |
| A1163-7.7 | 7.7 | 0.3031 | 25 | 79 | 37 | 7.7 |
| A1163-7.8 | 7.8 | 0.3071 | 25 | 79 | 37 | 7.8 |
| A1163-7.9 | 7.9 | 0.3110 | 25 | 79 | 37 | 7.9 |
| A1163-8 | 8 | 0.3150 | 25 | 79 | 37 | 8 |
| A1163-8.1 | 8.1 | 0.3189 | 24 | 79 | 37 | 8.1 |
| A1163-8.2 | 8.2 | 0.3228 | 24 | 79 | 37 | 8.2 |
| A1163-8.3 | 8.3 | 0.3268 | 24 | 79 | 37 | 8.3 |
| A1163-8.4 | 8.4 | 0.3307 | 24 | 79 | 37 | 8.4 |
| A1163-8.5 | 8.5 | 0.3346 | 24 | 79 | 37 | 8.5 |
| A1163-8.6 | 8.6 | 0.3386 | 25 | 84 | 40 | 8.6 |
| A1163-8.7 | 8.7 | 0.3425 | 25 | 84 | 40 | 8.7 |
| A1163-8.8 | 8.8 | 0.3465 | 25 | 84 | 40 | 8.8 |
| A1163-9 | 9 | 0.3543 | 25 | 84 | 40 | 9 |
| A1163-9.3 | 9.3 | 0.3661 | 25 | 84 | 40 | 9.3 |
| A1163-9.5 | 9.5 | 0.3740 | 25 | 84 | 40 | 9.5 |
| A1163-9.7 | 9.7 | 0.3819 | 28 | 89 | 43 | 9.7 |

## Tool




Cylindrical shank

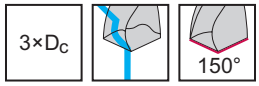
| Designation | h7 mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1163-9.8 | 9.8 | 0.3858 | 28 | 89 | 43 | 9.8 |
| A1163-10 | 10 | 0.3937 | 28 | 89 | 43 | 10 |
| A1163-10.2 | 10.2 | 0.4016 | 27 | 89 | 43 | 10.2 |
| A1163-10.5 | 10.5 | 0.4134 | 27 | 89 | 43 | 10.5 |
| A1163-11 | 11 | 0.4331 | 29 | 95 | 47 | 11 |
| A1163-11.5 | 11.5 | 0.4528 | 29 | 95 | 47 | 11.5 |
| A1163-12 | 12 | 0.4724 | 33 | 102 | 51 | 12 |

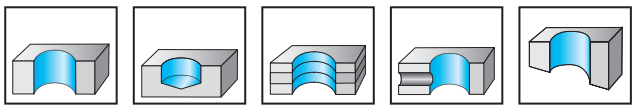
B1

# Solid carbide countersinkers

## A1166 / A1166TIN


– Overall length DIN 6539, grooves extended compared to DIN 6539

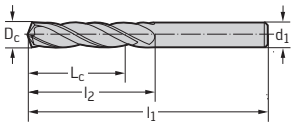


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ● | | | ● | ● | ● | |
| TIN | ● | | | ● | ● | ● | |

B1

### Tool




Cylindrical shank

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|---|
| A1166-3 | 3 | 0.1181 | | 17 | 46 | 22 | 3 |
| A1166-3.1 | 3.1 | 0.1220 | | 18 | 49 | 24 | 3.1 |
| A1166-1/8IN | 3.175 | 0.1250 | 1/8" | 18 | 49 | 24 | 3.175 |
| A1166-3.2 | 3.2 | 0.1260 | | 18 | 49 | 24 | 3.2 |
| A1166-3.3 | 3.3 | 0.1299 | | 18 | 49 | 24 | 3.3 |
| A1166-3.4 | 3.4 | 0.1339 | | 21 | 52 | 27 | 3.4 |
| A1166-3.5 | 3.5 | 0.1378 | | 21 | 52 | 27 | 3.5 |
| A1166-9/64IN | 3.572 | 0.1406 | 9/64" | 21 | 52 | 27 | 3.572 |
| A1166-3.6 | 3.6 | 0.1417 | | 21 | 52 | 27 | 3.6 |
| A1166-3.7 | 3.7 | 0.1457 | | 21 | 52 | 27 | 3.7 |
| A1166-3.8 | 3.8 | 0.1496 | | 23 | 55 | 30 | 3.8 |
| A1166-3.9 | 3.9 | 0.1535 | | 23 | 55 | 30 | 3.9 |
| A1166-4 | 4 | 0.1575 | | 23 | 55 | 30 | 4 |
| A1166-4.1 | 4.1 | 0.1614 | | 23 | 55 | 30 | 4.1 |
| A1166-4.2 | 4.2 | 0.1654 | | 23 | 55 | 30 | 4.2 |
| A1166-4.3 | 4.3 | 0.1693 | | 24 | 58 | 32 | 4.3 |
| A1166-4.4 | 4.4 | 0.1732 | | 24 | 58 | 32 | 4.4 |
| A1166-4.5 | 4.5 | 0.1772 | | 24 | 58 | 32 | 4.5 |
| A1166-4.6 | 4.6 | 0.1811 | | 24 | 58 | 32 | 4.6 |
| A1166-4.7 | 4.7 | 0.1850 | | 24 | 58 | 32 | 4.7 |
| A1166-3/16IN | 4.763 | 0.1875 | 3/16" | 27 | 62 | 35 | 4.763 |
| A1166-4.8 | 4.8 | 0.1890 | | 27 | 62 | 35 | 4.8 |
| A1166-4.9 | 4.9 | 0.1929 | | 27 | 62 | 35 | 4.9 |
| A1166-5 | 5 | 0.1969 | | 27 | 62 | 35 | 5 |
| A1166-5.1 | 5.1 | 0.2008 | | 27 | 62 | 35 | 5.1 |
| A1166-13/64IN | 5.159 | 0.2031 | 13/64" | 27 | 62 | 35 | 5.159 |
| A1166-5.2 | 5.2 | 0.2047 | | 27 | 62 | 35 | 5.2 |
| A1166-5.3 | 5.3 | 0.2087 | | 27 | 62 | 35 | 5.3 |
| A1166-5.4 | 5.4 | 0.2126 | | 30 | 66 | 39 | 5.4 |
| A1166-5.5 | 5.5 | 0.2165 | | 30 | 66 | 39 | 5.5 |
| A1166-5.6 | 5.6 | 0.2205 | | 30 | 66 | 39 | 5.6 |
| A1166-5.7 | 5.7 | 0.2244 | | 30 | 66 | 39 | 5.7 |
| A1166-5.8 | 5.8 | 0.2283 | | 30 | 66 | 39 | 5.8 |
| A1166-6 | 6 | 0.2362 | | 30 | 66 | 39 | 6 |
| A1166-6.1 | 6.1 | 0.2402 | | 31 | 70 | 42 | 6.1 |

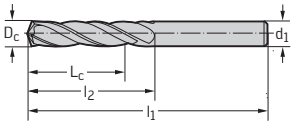
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

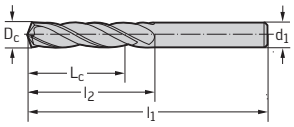
B1

## Tool



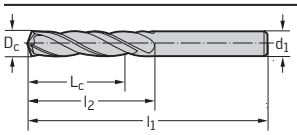

Cylindrical shank

| Designation | h7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|---|
| A1166-6.2 | 6.2 | 0.2441 | | 31 | 70 | 42 | 6.2 |
| A1166-6.3 | 6.3 | 0.2480 | | 31 | 70 | 42 | 6.3 |
| A1166-1/4IN | 6.35 | 0.2500 | 1/4" | 31 | 70 | 42 | 6.35 |
| A1166-6.4 | 6.4 | 0.2520 | | 31 | 70 | 42 | 6.4 |
| A1166-6.5 | 6.5 | 0.2559 | | 31 | 70 | 42 | 6.5 |
| A1166-6.6 | 6.6 | 0.2598 | | 31 | 70 | 42 | 6.6 |
| A1166-6.7 | 6.7 | 0.2638 | | 31 | 70 | 42 | 6.7 |
| A1166-6.8 | 6.8 | 0.2677 | | 33 | 74 | 45 | 6.8 |
| A1166-6.9 | 6.9 | 0.2717 | | 33 | 74 | 45 | 6.9 |
| A1166-7 | 7 | 0.2756 | | 33 | 74 | 45 | 7 |
| A1166-7.1 | 7.1 | 0.2795 | | 33 | 74 | 45 | 7.1 |
| A1166-7.2 | 7.2 | 0.2835 | | 33 | 74 | 45 | 7.2 |
| A1166-7.3 | 7.3 | 0.2874 | | 33 | 74 | 45 | 7.3 |
| A1166-7.4 | 7.4 | 0.2913 | | 33 | 74 | 45 | 7.4 |
| A1166-7.5 | 7.5 | 0.2953 | | 33 | 74 | 45 | 7.5 |
| A1166-7.8 | 7.8 | 0.3071 | | 35 | 79 | 48 | 7.8 |
| A1166-8 | 8 | 0.3150 | | 35 | 79 | 48 | 8 |
| A1166-8.1 | 8.1 | 0.3189 | | 35 | 79 | 48 | 8.1 |
| A1166-8.2 | 8.2 | 0.3228 | | 35 | 79 | 48 | 8.2 |
| A1166-8.3 | 8.3 | 0.3268 | | 35 | 79 | 48 | 8.3 |
| A1166-8.5 | 8.5 | 0.3346 | | 35 | 79 | 48 | 8.5 |
| A1166-8.6 | 8.6 | 0.3386 | | 37 | 84 | 52 | 8.6 |
| A1166-8.8 | 8.8 | 0.3465 | | 37 | 84 | 52 | 8.8 |
| A1166-9 | 9 | 0.3543 | | 37 | 84 | 52 | 9 |
| A1166-9.5 | 9.5 | 0.3740 | | 37 | 84 | 52 | 9.5 |
| A1166-9.6 | 9.6 | 0.3780 | | 39 | 89 | 55 | 9.6 |
| A1166-9.8 | 9.8 | 0.3858 | | 39 | 89 | 55 | 9.8 |
| A1166-10 | 10 | 0.3937 | | 39 | 89 | 55 | 10 |
| A1166-10.2 | 10.2 | 0.4016 | | 39 | 89 | 55 | 10.2 |
| A1166-10.3 | 10.3 | 0.4055 | | 39 | 89 | 55 | 10.3 |
| A1166-11 | 11 | 0.4331 | | 42 | 95 | 60 | 11 |
| A1166-11.8 | 11.8 | 0.4646 | | 42 | 95 | 60 | 11.8 |
| A1166-12 | 12 | 0.4724 | | 51 | 102 | 65 | 12 |
| A1166-12.5 | 12.5 | 0.4921 | | 51 | 102 | 65 | 12.5 |
| A1166-12.9 | 12.9 | 0.5079 | | 51 | 102 | 65 | 12.9 |
| A1166-13 | 13 | 0.5118 | | 51 | 102 | 65 | 13 |
| A1166-14 | 14 | 0.5512 | | 52 | 107 | 66 | 14 |
| A1166-15 | 15 | 0.5906 | | 55 | 111 | 70 | 15 |
| A1166-18 | 18 | 0.7087 | | 58 | 123 | 76 | 18 |




Cylindrical shank

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A1166TIN-3 | 3 | 0.1181 | | 17 | 46 | 22 | 3 |
| A1166TIN-3.3 | 3.3 | 0.1299 | | 18 | 49 | 24 | 3.3 |
| A1166TIN-4 | 4 | 0.1575 | | 23 | 55 | 30 | 4 |
| A1166TIN-4.2 | 4.2 | 0.1654 | | 23 | 55 | 30 | 4.2 |
| A1166TIN-4.5 | 4.5 | 0.1772 | | 24 | 58 | 32 | 4.5 |
| A1166TIN-5 | 5 | 0.1969 | | 27 | 62 | 35 | 5 |
| A1166TIN-5.5 | 5.5 | 0.2165 | | 30 | 66 | 39 | 5.5 |
| A1166TIN-6 | 6 | 0.2362 | | 30 | 66 | 39 | 6 |
| A1166TIN-6.8 | 6.8 | 0.2677 | | 33 | 74 | 45 | 6.8 |

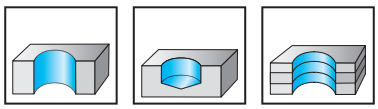


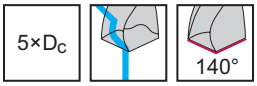

Cylindrical shank

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A1166TIN-7 | 7 | 0.2756 | | 33 | 74 | 45 | 7 |
| A1166TIN-7.8 | 7.8 | 0.3071 | | 35 | 79 | 48 | 7.8 |
| A1166TIN-8 | 8 | 0.3150 | | 35 | 79 | 48 | 8 |
| A1166TIN-10 | 10 | 0.3937 | | 39 | 89 | 55 | 10 |
| A1166TIN-10.5 | 10.5 | 0.4134 | | 39 | 89 | 55 | 10.5 |
| A1166TIN-14 | 14 | 0.5512 | | 52 | 107 | 66 | 14 |

# Solid carbide micro twist drills
# DB133 Supreme



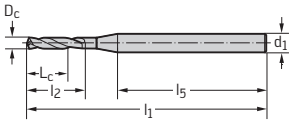





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EL | ●● | | ●● | ●● | ● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EL |
|---|---|---|---|---|---|---|---|---|---|
| DB133-05-00.500A0- | 0.5 | 0.0197 | | 3.2 | 47 | 4 | 36 | 3 | ☺ |
| DB133-05-00.550A0- | 0.55 | 0.0217 | | 4.1 | 47 | 5 | 35 | 3 | ☺ |
| DB133-05-00.600A0- | 0.6 | 0.0236 | | 4.1 | 47 | 5 | 35 | 3 | ☺ |
| DB133-05-00.650A0- | 0.65 | 0.0256 | | 5 | 47 | 6 | 34 | 3 | ☺ |
| DB133-05-00.700A0- | 0.7 | 0.0276 | | 4.9 | 48 | 6 | 35 | 3 | ☺ |
| DB133-05-00.750A0- | 0.75 | 0.0295 | | 5.8 | 48 | 7 | 34 | 3 | ☺ |
| DB133-05-00.794A0- | 0.794 | 0.0313 | 1/32" | 5.8 | 48 | 7 | 34 | 3 | ☺ |
| DB133-05-00.800A0- | 0.8 | 0.0315 | | 5.8 | 48 | 7 | 34 | 3 | ☺ |
| DB133-05-00.850A0- | 0.85 | 0.0335 | | 6.6 | 50 | 8 | 35 | 3 | ☺ |
| DB133-05-00.880A0- | 0.88 | 0.0346 | | 6.6 | 50 | 8 | 35 | 3 | ☺ |
| DB133-05-00.900A0- | 0.9 | 0.0354 | | 6.6 | 50 | 8 | 35 | 3 | ☺ |
| DB133-05-00.950A0- | 0.95 | 0.0374 | | 7.5 | 50 | 9 | 34 | 3 | ☺ |
| DB133-05-01.000A0- | 1 | 0.0394 | | 7.5 | 50 | 9 | 34 | 3 | ☺ |
| DB133-05-01.050A0- | 1.05 | 0.0413 | | 7 | 51 | 9 | 36 | 3 | ☺ |
| DB133-05-01.080A0- | 1.08 | 0.0425 | | 7 | 51 | 9 | 36 | 3 | ☺ |
| DB133-05-01.100A0- | 1.1 | 0.0433 | | 7 | 51 | 9 | 36 | 3 | ☺ |
| DB133-05-01.150A0- | 1.15 | 0.0453 | | 8 | 51 | 10 | 35 | 3 | ☺ |
| DB133-05-01.191A0- | 1.191 | 0.0469 | 3/64" | 8 | 51 | 10 | 35 | 3 | ☺ |
| DB133-05-01.200A0- | 1.2 | 0.0472 | | 8 | 51 | 10 | 35 | 3 | ☺ |
| DB133-05-01.250A0- | 1.25 | 0.0492 | | 9 | 51 | 11 | 34 | 3 | ☺ |
| DB133-05-01.300A0- | 1.3 | 0.0512 | | 9 | 53 | 11 | 36 | 3 | ☺ |
| DB133-05-01.350A0- | 1.35 | 0.0531 | | 9 | 53 | 12 | 35 | 3 | ☺ |
| DB133-05-01.400A0- | 1.4 | 0.0551 | | 9 | 53 | 12 | 35 | 3 | ☺ |
| DB133-05-01.450A0- | 1.45 | 0.0571 | | 10 | 53 | 13 | 34 | 3 | ☺ |
| DB133-05-01.500A0- | 1.5 | 0.0591 | | 10 | 53 | 13 | 34 | 3 | ☺ |
| DB133-05-01.550A0- | 1.55 | 0.0610 | | 11 | 54 | 14 | 35 | 3 | ☺ |
| DB133-05-01.588A0- | 1.588 | 0.0625 | 1/16" | 11 | 54 | 14 | 35 | 3 | ☺ |
| DB133-05-01.600A0- | 1.6 | 0.0630 | | 11 | 54 | 14 | 35 | 3 | ☺ |
| DB133-05-01.650A0- | 1.65 | 0.0650 | | 11 | 54 | 14 | 35 | 3 | ☺ |
| DB133-05-01.700A0- | 1.7 | 0.0669 | | 11 | 54 | 14 | 35 | 3 | ☺ |
| DB133-05-01.750A0- | 1.75 | 0.0689 | | 12 | 54 | 15 | 34 | 3 | ☺ |
| DB133-05-01.800A0- | 1.8 | 0.0709 | | 12 | 54 | 15 | 34 | 3 | ☺ |
| DB133-05-01.820A0- | 1.82 | 0.0717 | | 13 | 57 | 16 | 36 | 3 | ☺ |
| DB133-05-01.850A0- | 1.85 | 0.0728 | | 13 | 57 | 16 | 36 | 3 | ☺ |
| DB133-05-01.900A0- | 1.9 | 0.0748 | | 13 | 57 | 16 | 36 | 3 | ☺ |

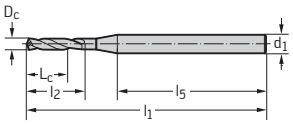
Ordering example for the grade WJ30EL: DB133-05-00.500A0-WJ30EL

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



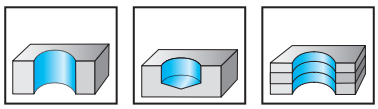

DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EL |
|---|---|---|---|---|---|---|---|---|---|
| DB133-05-01.950A0- | 1.95 | 0.0768 | | 14 | 57 | 17 | 35 | 3 | |
| DB133-05-01.984A0- | 1.984 | 0.0781 | 5/64" | 14 | 57 | 17 | 35 | 3 | |
| DB133-05-02.000A0- | 2 | 0.0787 | | 14 | 57 | 17 | 35 | 3 | |
| DB133-05-02.050A0- | 2.05 | 0.0807 | | 14 | 57 | 18 | 35 | 3 | |
| DB133-05-02.100A0- | 2.1 | 0.0827 | | 14 | 57 | 18 | 35 | 3 | |
| DB133-05-02.150A0- | 2.15 | 0.0846 | | 15 | 57 | 19 | 34 | 3 | |
| DB133-05-02.200A0- | 2.2 | 0.0866 | | 15 | 57 | 19 | 34 | 3 | |
| DB133-05-02.250A0- | 2.25 | 0.0886 | | 16 | 59 | 20 | 35 | 3 | |
| DB133-05-02.300A0- | 2.3 | 0.0906 | | 16 | 59 | 20 | 35 | 3 | |
| DB133-05-02.350A0- | 2.35 | 0.0925 | | 16 | 59 | 20 | 35 | 3 | |
| DB133-05-02.381A0- | 2.381 | 0.0937 | 3/32" | 16 | 59 | 20 | 35 | 3 | |
| DB133-05-02.400A0- | 2.4 | 0.0945 | | 16 | 59 | 20 | 35 | 3 | |
| DB133-05-02.450A0- | 2.45 | 0.0965 | | 17 | 59 | 21 | 34 | 3 | |
| DB133-05-02.500A0- | 2.5 | 0.0984 | | 17 | 59 | 21 | 34 | 3 | |
| DB133-05-02.550A0- | 2.55 | 0.1004 | | 18 | 62 | 22 | 36 | 3 | |
| DB133-05-02.600A0- | 2.6 | 0.1024 | | 18 | 62 | 22 | 36 | 3 | |
| DB133-05-02.650A0- | 2.65 | 0.1043 | | 18 | 62 | 23 | 36 | 3 | |
| DB133-05-02.700A0- | 2.7 | 0.1063 | | 18 | 62 | 23 | 36 | 3 | |
| DB133-05-02.750A0- | 2.75 | 0.1083 | | 19 | 62 | 24 | 35 | 3 | |
| DB133-05-02.778A0- | 2.778 | 0.1094 | 7/64" | 19 | 62 | 24 | 35 | 3 | |
| DB133-05-02.800A0- | 2.8 | 0.1102 | | 19 | 62 | 24 | 35 | 3 | |
| DB133-05-02.850A0- | 2.85 | 0.1122 | | 20 | 62 | 25 | 34 | 3 | |
| DB133-05-02.900A0- | 2.9 | 0.1142 | | 20 | 62 | 25 | 34 | 3 | |
| DB133-05-02.950A0- | 2.95 | 0.1161 | | 20 | 62 | 25 | 34 | 3 | |

Ordering example for the grade WJ30EL: DB133-05-00.500A0-WJ30EL

# Solid carbide micro twist drills
# DB130 Supreme



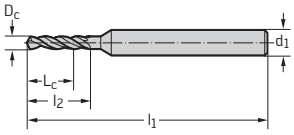


5×$D_c$ | DIN 1899 |  |  118°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30UU | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

## Tool




Cylindrical shank

| Designation | 0-0.004 | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 | WJ30UU |
|---|---|---|---|---|---|---|---|
| DB130-05-00.100U0- | 0.1 | 0.0039 | 0.3 | 25 | 0.5 | 1 | ☺ |
| DB130-05-00.110U0- | 0.11 | 0.0043 | 0.3 | 25 | 0.5 | 1 | ☺ |
| DB130-05-00.120U0- | 0.12 | 0.0047 | 0.3 | 25 | 0.5 | 1 | ☺ |
| DB130-05-00.130U0- | 0.13 | 0.0051 | 0.5 | 25 | 0.8 | 1 | ☺ |
| DB130-05-00.140U0- | 0.14 | 0.0055 | 0.5 | 25 | 0.8 | 1 | ☺ |
| DB130-05-00.150U0- | 0.15 | 0.0059 | 0.5 | 25 | 0.8 | 1 | ☺ |
| DB130-05-00.160U0- | 0.16 | 0.0063 | 0.8 | 25 | 1.1 | 1 | ☺ |
| DB130-05-00.170U0- | 0.17 | 0.0067 | 0.8 | 25 | 1.1 | 1 | ☺ |
| DB130-05-00.180U0- | 0.18 | 0.0071 | 0.8 | 25 | 1.1 | 1 | ☺ |
| DB130-05-00.190U0- | 0.19 | 0.0075 | 0.8 | 25 | 1.1 | 1 | ☺ |
| DB130-05-00.200U0- | 0.2 | 0.0079 | 1.1 | 25 | 1.5 | 1 | ☺ |
| DB130-05-00.210U0- | 0.21 | 0.0083 | 1.1 | 25 | 1.5 | 1 | ☺ |
| DB130-05-00.220U0- | 0.22 | 0.0087 | 1.1 | 25 | 1.5 | 1 | ☺ |
| DB130-05-00.230U0- | 0.23 | 0.0091 | 1.1 | 25 | 1.5 | 1 | ☺ |
| DB130-05-00.240U0- | 0.24 | 0.0094 | 1.1 | 25 | 1.5 | 1 | ☺ |
| DB130-05-00.250U0- | 0.25 | 0.0098 | 1.4 | 25 | 1.9 | 1 | ☺ |
| DB130-05-00.260U0- | 0.26 | 0.0102 | 1.4 | 25 | 1.9 | 1 | ☺ |
| DB130-05-00.270U0- | 0.27 | 0.0106 | 1.4 | 25 | 1.9 | 1 | ☺ |
| DB130-05-00.280U0- | 0.28 | 0.0110 | 1.4 | 25 | 1.9 | 1 | ☺ |
| DB130-05-00.290U0- | 0.29 | 0.0114 | 1.4 | 25 | 1.9 | 1 | ☺ |
| DB130-05-00.300U0- | 0.3 | 0.0118 | 1.4 | 25 | 1.9 | 1 | ☺ |
| DB130-05-00.310U0- | 0.31 | 0.0122 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.320U0- | 0.32 | 0.0126 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.330U0- | 0.33 | 0.0130 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.340U0- | 0.34 | 0.0134 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.350U0- | 0.35 | 0.0138 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.360U0- | 0.36 | 0.0142 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.370U0- | 0.37 | 0.0146 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.380U0- | 0.38 | 0.0150 | 1.8 | 25 | 2.4 | 1 | ☺ |
| DB130-05-00.390U0- | 0.39 | 0.0154 | 2.2 | 25 | 3 | 1 | ☺ |
| DB130-05-00.400U0- | 0.4 | 0.0157 | 2.2 | 25 | 3 | 1 | ☺ |
| DB130-05-00.410U0- | 0.41 | 0.0161 | 2.2 | 25 | 3 | 1 | ☺ |
| DB130-05-00.420U0- | 0.42 | 0.0165 | 2.2 | 25 | 3 | 1 | ☺ |
| DB130-05-00.430U0- | 0.43 | 0.0169 | 2.2 | 25 | 3 | 1 | ☺ |
| DB130-05-00.440U0- | 0.44 | 0.0173 | 2.2 | 25 | 3 | 1 | ☺ |

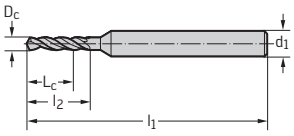
Ordering example for the grade WJ30UU: DB130-05-00.100U0-WJ30UU

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



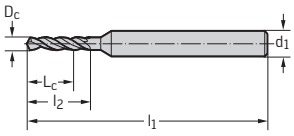

Cylindrical shank

B1

| Designation | 0-0.004 | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 | WJ30UU |
|---|---|---|---|---|---|---|---|
| DB130-05-00.450U0- | 0.45 | 0.0177 | 2.2 | 25 | 3 | 1 | ● |
| DB130-05-00.460U0- | 0.46 | 0.0181 | 2.2 | 25 | 3 | 1 | ● |
| DB130-05-00.470U0- | 0.47 | 0.0185 | 2.2 | 25 | 3 | 1 | ● |
| DB130-05-00.480U0- | 0.48 | 0.0189 | 2.2 | 25 | 3 | 1 | ● |
| DB130-05-00.490U0- | 0.49 | 0.0193 | 2.6 | 25 | 3.4 | 1 | ● |
| DB130-05-00.500U0- | 0.5 | 0.0197 | 2.6 | 25 | 3.4 | 1 | ● |
| DB130-05-00.510U0- | 0.51 | 0.0201 | 2.6 | 25 | 3.4 | 1 | ● |
| DB130-05-00.520U0- | 0.52 | 0.0205 | 2.6 | 25 | 3.4 | 1 | ● |
| DB130-05-00.530U0- | 0.53 | 0.0209 | 2.6 | 25 | 3.4 | 1 | ● |
| DB130-05-00.540U0- | 0.54 | 0.0213 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.550U0- | 0.55 | 0.0217 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.560U0- | 0.56 | 0.0220 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.570U0- | 0.57 | 0.0224 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.580U0- | 0.58 | 0.0228 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.590U0- | 0.59 | 0.0232 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.600U0- | 0.6 | 0.0236 | 3 | 25 | 3.9 | 1 | ● |
| DB130-05-00.610U0- | 0.61 | 0.0240 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.620U0- | 0.62 | 0.0244 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.630U0- | 0.63 | 0.0248 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.640U0- | 0.64 | 0.0252 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.650U0- | 0.65 | 0.0256 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.660U0- | 0.66 | 0.0260 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.670U0- | 0.67 | 0.0264 | 3.1 | 25 | 4.2 | 1 | ● |
| DB130-05-00.680U0- | 0.68 | 0.0268 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.690U0- | 0.69 | 0.0272 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.700U0- | 0.7 | 0.0276 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.710U0- | 0.71 | 0.0280 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.720U0- | 0.72 | 0.0283 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.730U0- | 0.73 | 0.0287 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.740U0- | 0.74 | 0.0291 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.750U0- | 0.75 | 0.0295 | 3.6 | 25 | 4.8 | 1 | ● |
| DB130-05-00.760U0- | 0.76 | 0.0299 | 4.1 | 25 | 5.3 | 1 | ● |
| DB130-05-00.770U0- | 0.77 | 0.0303 | 4.1 | 25 | 5.3 | 1 | ● |
| DB130-05-00.780U0- | 0.78 | 0.0307 | 4.1 | 25 | 5.3 | 1 | ● |
| DB130-05-00.790U0- | 0.79 | 0.0311 | 4.1 | 25 | 5.3 | 1 | ● |
| DB130-05-00.800U0- | 0.8 | 0.0315 | 4 | 25 | 5.3 | 1.5 | ● |
| DB130-05-00.810U0- | 0.81 | 0.0319 | 4 | 25 | 5.3 | 1.5 | ● |
| DB130-05-00.820U0- | 0.82 | 0.0323 | 4 | 25 | 5.3 | 1.5 | ● |
| DB130-05-00.830U0- | 0.83 | 0.0327 | 4 | 25 | 5.3 | 1.5 | ● |
| DB130-05-00.840U0- | 0.84 | 0.0331 | 4 | 25 | 5.3 | 1.5 | ● |
| DB130-05-00.850U0- | 0.85 | 0.0335 | 4 | 25 | 5.3 | 1.5 | ● |
| DB130-05-00.860U0- | 0.86 | 0.0339 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.870U0- | 0.87 | 0.0343 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.880U0- | 0.88 | 0.0346 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.890U0- | 0.89 | 0.0350 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.900U0- | 0.9 | 0.0354 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.910U0- | 0.91 | 0.0358 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.920U0- | 0.92 | 0.0362 | 4.5 | 25 | 6 | 1.5 | ● |

Ordering example for the grade WJ30UU: DB130-05-00.100U0-WJ30UU

## Tool

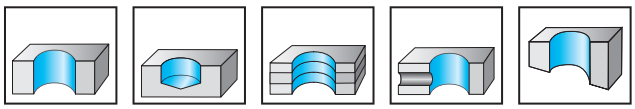



Cylindrical shank

| Designation | 0-0.004 | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 | WJ30UU |
|---|---|---|---|---|---|---|---|
| DB130-05-00.930U0- | 0.93 | 0.0366 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.940U0- | 0.94 | 0.0370 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.950U0- | 0.95 | 0.0374 | 4.5 | 25 | 6 | 1.5 | ● |
| DB130-05-00.960U0- | 0.96 | 0.0378 | 5 | 25 | 6.8 | 1.5 | ● |
| DB130-05-00.970U0- | 0.97 | 0.0382 | 5 | 25 | 6.8 | 1.5 | ● |
| DB130-05-00.980U0- | 0.98 | 0.0386 | 5 | 25 | 6.8 | 1.5 | ● |
| DB130-05-00.990U0- | 0.99 | 0.0390 | 5 | 25 | 6.8 | 1.5 | ● |
| DB130-05-01.000U0- | 1 | 0.0394 | 5 | 25 | 6.8 | 1.5 | ● |
| DB130-05-01.050U0- | 1.05 | 0.0413 | 5 | 25 | 6.8 | 1.5 | ● |
| DB130-05-01.100U0- | 1.1 | 0.0433 | 5 | 25 | 7.6 | 1.5 | ● |
| DB130-05-01.150U0- | 1.15 | 0.0453 | 5 | 25 | 7.6 | 1.5 | ● |
| DB130-05-01.200U0- | 1.2 | 0.0472 | 6 | 25 | 8.5 | 1.5 | ● |
| DB130-05-01.250U0- | 1.25 | 0.0492 | 6 | 25 | 8.5 | 1.5 | ● |
| DB130-05-01.300U0- | 1.3 | 0.0512 | 6 | 25 | 8.5 | 1.5 | ● |
| DB130-05-01.350U0- | 1.35 | 0.0531 | 7 | 25 | 9.5 | 1.5 | ● |
| DB130-05-01.400U0- | 1.4 | 0.0551 | 7 | 25 | 9.5 | 1.5 | ● |
| DB130-05-01.450U0- | 1.45 | 0.0571 | 7 | 25 | 9.5 | 1.5 | ● |

Ordering example for the grade WJ30UU: DB130-05-00.100U0-WJ30UU

# Solid carbide twist drills
## DC160 Advance
## X-treme Evo

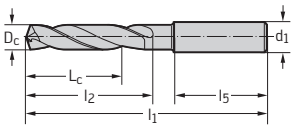


5×$D_c$ | DIN 6537 L | 140°

B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ET | ●● | | ●● | ● | ● | ● | ● |

## Tool




DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-03.000A0- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.100A0- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.175A0- | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.200A0- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.250A0- | 3.25 | 0.1280 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.300A0- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.400A0- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.500A0- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.572A0- | 3.572 | 0.1406 | 9/64" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.600A0- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.650A0- | 3.65 | 0.1437 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.700A0- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC160-05-03.800A0- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-03.900A0- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-03.969A0- | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.000A0- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.100A0- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.200A0- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.300A0- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.366A0- | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.400A0- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.500A0- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.600A0- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.650A0- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.700A0- | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC160-05-04.763A0- | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-04.800A0- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-04.900A0- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.000A0- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.100A0- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.159A0- | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.200A0- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.300A0- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.400A0- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC160-05-05.500A0- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | ☺ |

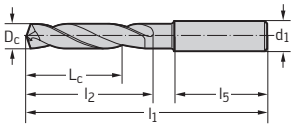
Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

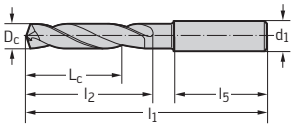



DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-05.550A0- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.556A0- | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.600A0- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.700A0- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.800A0- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.900A0- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.953A0- | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.000A0- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.100A0- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.200A0- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.300A0- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.350A0- | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.400A0- | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.500A0- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.600A0- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.700A0- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.747A0- | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.800A0- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.900A0- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.000A0- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.100A0- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.144A0- | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.200A0- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.300A0- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.400A0- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.500A0- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.541A0- | 7.541 | 0.2969 | 19/64" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.550A0- | 7.55 | 0.2972 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.600A0- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.700A0- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.800A0- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.900A0- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.938A0- | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.000A0- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.100A0- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.200A0- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.300A0- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.334A0- | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.400A0- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.500A0- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.600A0- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.700A0- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.731A0- | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.800A0- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.900A0- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.000A0- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.100A0- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.128A0- | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

## Tool



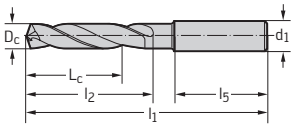

DIN 6535 HA

B1

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-09.300A0- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.400A0- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.500A0- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.525A0- | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.550A0- | 9.55 | 0.3760 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.600A0- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.700A0- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.800A0- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.900A0- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.922A0- | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.000A0- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.100A0- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.200A0- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.300A0- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.319A0- | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.400A0- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.500A0- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.600A0- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.700A0- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.716A0- | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.800A0- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.900A0- | 10.9 | 0.4291 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.000A0- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.100A0- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.113A0- | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.200A0- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.400A0- | 11.4 | 0.4488 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.500A0- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.509A0- | 11.509 | 0.4531 | 29/64" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.550A0- | 11.55 | 0.4547 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.600A0- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.700A0- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.800A0- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.906A0- | 11.906 | 0.4687 | 15/32" | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-12.000A0- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-12.100A0- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.200A0- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.250A0- | 12.25 | 0.4823 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.300A0- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.400A0- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.500A0- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.600A0- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.700A0- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.750A0- | 12.75 | 0.5020 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.800A0- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-12.900A0- | 12.9 | 0.5079 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.000A0- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.100A0- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

## Tool

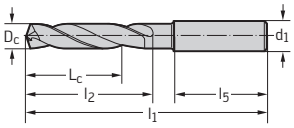



DIN 6535 HA

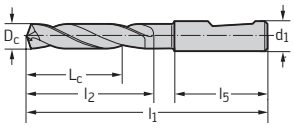
| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-13.200A0- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.300A0- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.400A0- | 13.4 | 0.5276 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.494A0- | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.500A0- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.600A0- | 13.6 | 0.5354 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.700A0- | 13.7 | 0.5394 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.800A0- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-13.900A0- | 13.9 | 0.5472 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-14.000A0- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | |
| DC160-05-14.100A0- | 14.1 | 0.5551 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.200A0- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.288A0- | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.500A0- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.600A0- | 14.6 | 0.5748 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.700A0- | 14.7 | 0.5787 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.750A0- | 14.75 | 0.5807 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-14.800A0- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.000A0- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.100A0- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.200A0- | 15.2 | 0.5984 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.300A0- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.500A0- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.700A0- | 15.7 | 0.6181 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.800A0- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.875A0- | 15.875 | 0.6250 | 5/8" | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.900A0- | 15.9 | 0.6260 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.000A0- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.100A0- | 16.1 | 0.6339 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.300A0- | 16.3 | 0.6417 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.500A0- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.600A0- | 16.6 | 0.6535 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.700A0- | 16.7 | 0.6575 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.750A0- | 16.75 | 0.6594 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.800A0- | 16.8 | 0.6614 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.000A0- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.500A0- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.700A0- | 17.7 | 0.6969 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.800A0- | 17.8 | 0.7008 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.000A0- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.200A0- | 18.2 | 0.7165 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.700A0- | 18.7 | 0.7362 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.800A0- | 18.8 | 0.7402 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.000A0- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.050A0- | 19.05 | 0.7500 | 3/4" | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.000A0- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.500A0- | 20.5 | 0.8071 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.000A0- | 21 | 0.8268 | | 86 | 166 | 108 | 56 | 25 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

## Tool




DIN 6535 HA

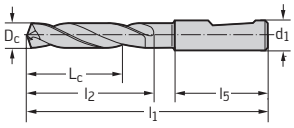



DIN 6535 HE

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-21.500A0- | 21.5 | 0.8465 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.000A0- | 22 | 0.8661 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.500A0- | 22.5 | 0.8858 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.000A0- | 23 | 0.9055 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.500A0- | 23.5 | 0.9252 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.000A0- | 24 | 0.9449 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.500A0- | 24.5 | 0.9646 | | 97 | 180 | 122 | 56 | 25 | |
| DC160-05-25.000A0- | 25 | 0.9843 | | 97 | 180 | 122 | 56 | 25 | |
| DC160-05-03.000F0- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.100F0- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.200F0- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.250F0- | 3.25 | 0.1280 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.300F0- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.400F0- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.500F0- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.600F0- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.650F0- | 3.65 | 0.1437 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.700F0- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | |
| DC160-05-03.800F0- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-03.900F0- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.000F0- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.100F0- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.200F0- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.300F0- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.400F0- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.500F0- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.600F0- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.650F0- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.700F0- | 4.7 | 0.1850 | | 29 | 74 | 36 | 36 | 6 | |
| DC160-05-04.800F0- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-04.900F0- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.000F0- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.100F0- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.200F0- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.300F0- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.400F0- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.500F0- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.550F0- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.600F0- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.700F0- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.800F0- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-05.900F0- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.000F0- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | |
| DC160-05-06.100F0- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.200F0- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.300F0- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.400F0- | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.500F0- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

## Tool

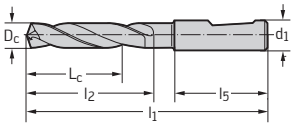



DIN 6535 HE

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-06.600F0- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.700F0- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.800F0- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-06.900F0- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.000F0- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.100F0- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.200F0- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.300F0- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.400F0- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.500F0- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.550F0- | 7.55 | 0.2972 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.600F0- | 7.6 | 0.2992 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.700F0- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.800F0- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-07.900F0- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.000F0- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | |
| DC160-05-08.100F0- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.200F0- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.300F0- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.400F0- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.500F0- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.600F0- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.700F0- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.800F0- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-08.900F0- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.000F0- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.100F0- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.200F0- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.300F0- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.400F0- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.500F0- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.550F0- | 9.55 | 0.3760 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.600F0- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.700F0- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.800F0- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-09.900F0- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.000F0- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC160-05-10.100F0- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.200F0- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.300F0- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.400F0- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.500F0- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.600F0- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.700F0- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.800F0- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-10.900F0- | 10.9 | 0.4291 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.000F0- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC160-05-11.100F0- | 11.1 | 0.4370 | | 56 | 118 | 71 | 45 | 12 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

## Tool



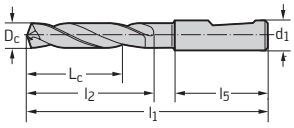

DIN 6535 HE

B1

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-11.200F0- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.300F0- | 11.3 | 0.4449 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.400F0- | 11.4 | 0.4488 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.500F0- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.550F0- | 11.55 | 0.4547 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.600F0- | 11.6 | 0.4567 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.700F0- | 11.7 | 0.4606 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.800F0- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-11.900F0- | 11.9 | 0.4685 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-12.000F0- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | ● |
| DC160-05-12.100F0- | 12.1 | 0.4764 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.200F0- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.250F0- | 12.25 | 0.4823 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.300F0- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.400F0- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.500F0- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.600F0- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.700F0- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.750F0- | 12.75 | 0.5020 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.800F0- | 12.8 | 0.5039 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-12.900F0- | 12.9 | 0.5079 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.000F0- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.100F0- | 13.1 | 0.5157 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.200F0- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.300F0- | 13.3 | 0.5236 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.400F0- | 13.4 | 0.5276 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.500F0- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.600F0- | 13.6 | 0.5354 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.700F0- | 13.7 | 0.5394 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.800F0- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-13.900F0- | 13.9 | 0.5472 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-14.000F0- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | ● |
| DC160-05-14.100F0- | 14.1 | 0.5551 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.200F0- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.300F0- | 14.3 | 0.5630 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.400F0- | 14.4 | 0.5669 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.500F0- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.600F0- | 14.6 | 0.5748 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.700F0- | 14.7 | 0.5787 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.750F0- | 14.75 | 0.5807 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-14.800F0- | 14.8 | 0.5827 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.000F0- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.100F0- | 15.1 | 0.5945 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.200F0- | 15.2 | 0.5984 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.300F0- | 15.3 | 0.6024 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.500F0- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.600F0- | 15.6 | 0.6142 | | 63 | 133 | 83 | 48 | 16 | ● |
| DC160-05-15.700F0- | 15.7 | 0.6181 | | 63 | 133 | 83 | 48 | 16 | ● |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

## Tool



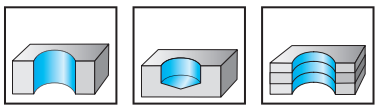

DIN 6535 HE

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ET |
|---|---|---|---|---|---|---|---|---|---|
| DC160-05-15.800F0- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-15.900F0- | 15.9 | 0.6260 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.000F0- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC160-05-16.100F0- | 16.1 | 0.6339 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.200F0- | 16.2 | 0.6378 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.300F0- | 16.3 | 0.6417 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.400F0- | 16.4 | 0.6457 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.500F0- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.600F0- | 16.6 | 0.6535 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.700F0- | 16.7 | 0.6575 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.750F0- | 16.75 | 0.6594 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-16.800F0- | 16.8 | 0.6614 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.000F0- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.200F0- | 17.2 | 0.6772 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.300F0- | 17.3 | 0.6811 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.500F0- | 17.5 | 0.689 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.600F0- | 17.6 | 0.6929 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.700F0- | 17.7 | 0.6969 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-17.800F0- | 17.8 | 0.7008 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.000F0- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC160-05-18.200F0- | 18.2 | 0.7165 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.500F0- | 18.5 | 0.7283 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.700F0- | 18.7 | 0.7362 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-18.800F0- | 18.8 | 0.7402 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.000F0- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.500F0- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.700F0- | 19.7 | 0.7756 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-19.800F0- | 19.8 | 0.7795 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.000F0- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | |
| DC160-05-20.500F0- | 20.5 | 0.8071 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.000F0- | 21 | 0.8268 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-21.500F0- | 21.5 | 0.8465 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.000F0- | 22 | 0.8661 | | 86 | 166 | 108 | 56 | 25 | |
| DC160-05-22.500F0- | 22.5 | 0.8858 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.000F0- | 23 | 0.9055 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-23.500F0- | 23.5 | 0.9252 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.000F0- | 24 | 0.9449 | | 91 | 173 | 115 | 56 | 25 | |
| DC160-05-24.500F0- | 24.5 | 0.9646 | | 97 | 180 | 122 | 56 | 25 | |
| DC160-05-25.000F0- | 25 | 0.9843 | | 97 | 180 | 122 | 56 | 25 | |

Ordering example for the grade WJ30ET: DC160-05-03.000A0-WJ30ET

B1

# Solid carbide twist drills
## DC150 Perform

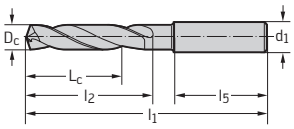


5×$D_c$ | DIN 6537 L |  | 


B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30TA | ●● | ● | ●● | ● | ● | ● | ● |

## Tool




DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-03.000A0- | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.100A0- | 3.1 | 0.1220 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.175A0- | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.200A0- | 3.2 | 0.1260 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.250A0- | 3.25 | 0.1280 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.300A0- | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.400A0- | 3.4 | 0.1339 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.500A0- | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.600A0- | 3.6 | 0.1417 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.650A0- | 3.65 | 0.1437 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.700A0- | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 | ☺ |
| DC150-05-03.800A0- | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-03.900A0- | 3.9 | 0.1535 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-03.969A0- | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.000A0- | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.100A0- | 4.1 | 0.1614 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.200A0- | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.300A0- | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.366A0- | 4.366 | 0.1719 | 11/64" | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.400A0- | 4.4 | 0.1732 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.500A0- | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.600A0- | 4.6 | 0.1811 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.650A0- | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.700A0- | 4.7 | 0.185 | | 29 | 74 | 36 | 36 | 6 | ☺ |
| DC150-05-04.763A0- | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-04.800A0- | 4.8 | 0.1890 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-04.900A0- | 4.9 | 0.1929 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.000A0- | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.100A0- | 5.1 | 0.2008 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.159A0- | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.200A0- | 5.2 | 0.2047 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.300A0- | 5.3 | 0.2087 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.400A0- | 5.4 | 0.2126 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.500A0- | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 | ☺ |
| DC150-05-05.550A0- | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 | ☺ |

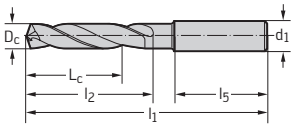
Ordering example for the grade WJ30TA: DC150-05-03.000A0-WJ30TA

**WALTER SELECT**

●● Primary application ● Other application

Best tool for ➔ Good = ☺ ➔ Average = 😐 ➔ Poor = ☹ machining conditions

## Tool

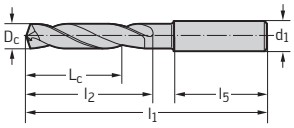



DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-05.556A0- | 5.556 | 0.2187 | 7/32" | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-05.600A0- | 5.6 | 0.2205 | | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-05.700A0- | 5.7 | 0.2244 | | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-05.800A0- | 5.8 | 0.2283 | | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-05.900A0- | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-05.953A0- | 5.953 | 0.2344 | 15/64" | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-06.000A0- | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 | ● |
| DC150-05-06.100A0- | 6.1 | 0.2402 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.200A0- | 6.2 | 0.2441 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.300A0- | 6.3 | 0.2480 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.350A0- | 6.35 | 0.2500 | 1/4" | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.400A0- | 6.4 | 0.2520 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.500A0- | 6.5 | 0.2559 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.600A0- | 6.6 | 0.2598 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.700A0- | 6.7 | 0.2638 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.747A0- | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.800A0- | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-06.900A0- | 6.9 | 0.2717 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.000A0- | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.100A0- | 7.1 | 0.2795 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.144A0- | 7.144 | 0.2813 | 9/32" | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.200A0- | 7.2 | 0.2835 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.300A0- | 7.3 | 0.2874 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.400A0- | 7.4 | 0.2913 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.500A0- | 7.5 | 0.2953 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.700A0- | 7.7 | 0.3031 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.800A0- | 7.8 | 0.3071 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.900A0- | 7.9 | 0.3110 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-07.938A0- | 7.938 | 0.3125 | 5/16" | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-08.000A0- | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 | ● |
| DC150-05-08.100A0- | 8.1 | 0.3189 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.200A0- | 8.2 | 0.3228 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.300A0- | 8.3 | 0.3268 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.334A0- | 8.334 | 0.3281 | 21/64" | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.400A0- | 8.4 | 0.3307 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.500A0- | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.600A0- | 8.6 | 0.3386 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.700A0- | 8.7 | 0.3425 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.731A0- | 8.731 | 0.3437 | 11/32" | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.800A0- | 8.8 | 0.3465 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-08.900A0- | 8.9 | 0.3504 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.000A0- | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.100A0- | 9.1 | 0.3583 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.128A0- | 9.128 | 0.3594 | 23/64" | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.200A0- | 9.2 | 0.3622 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.300A0- | 9.3 | 0.3661 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.400A0- | 9.4 | 0.3701 | | 49 | 103 | 61 | 40 | 10 | ● |
| DC150-05-09.500A0- | 9.5 | 0.3740 | | 49 | 103 | 61 | 40 | 10 | ● |

Ordering example for the grade WJ30TA: DC150-05-03.000A0-WJ30TA

## Tool



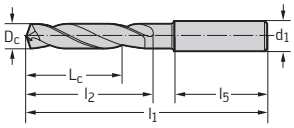

DIN 6535 HA

B1

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-09.525A0- | 9.525 | 0.3750 | 3/8" | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.600A0- | 9.6 | 0.3780 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.700A0- | 9.7 | 0.3819 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.800A0- | 9.8 | 0.3858 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.900A0- | 9.9 | 0.3898 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-09.922A0- | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-10.000A0- | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 | |
| DC150-05-10.100A0- | 10.1 | 0.3976 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.200A0- | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.300A0- | 10.3 | 0.4055 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.319A0- | 10.319 | 0.4063 | 13/32" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.400A0- | 10.4 | 0.4094 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.500A0- | 10.5 | 0.4134 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.600A0- | 10.6 | 0.4173 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.700A0- | 10.7 | 0.4213 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.716A0- | 10.716 | 0.4219 | 27/64" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-10.800A0- | 10.8 | 0.4252 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.000A0- | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.113A0- | 11.113 | 0.4375 | 7/16" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.200A0- | 11.2 | 0.4409 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.500A0- | 11.5 | 0.4528 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.800A0- | 11.8 | 0.4646 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-11.906A0- | 11.906 | 0.4687 | 15/32" | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-12.000A0- | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 | |
| DC150-05-12.200A0- | 12.2 | 0.4803 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.300A0- | 12.3 | 0.4843 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.400A0- | 12.4 | 0.4882 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.500A0- | 12.5 | 0.4921 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.600A0- | 12.6 | 0.4961 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-12.700A0- | 12.7 | 0.5000 | 1/2" | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.000A0- | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.200A0- | 13.2 | 0.5197 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.494A0- | 13.494 | 0.5313 | 17/32" | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.500A0- | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-13.800A0- | 13.8 | 0.5433 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-14.000A0- | 14 | 0.5512 | | 60 | 124 | 77 | 45 | 14 | |
| DC150-05-14.200A0- | 14.2 | 0.5591 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.288A0- | 14.288 | 0.5625 | 9/16" | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-14.500A0- | 14.5 | 0.5709 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.000A0- | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.500A0- | 15.5 | 0.6102 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-15.800A0- | 15.8 | 0.6220 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-16.000A0- | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 | |
| DC150-05-16.500A0- | 16.5 | 0.6496 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.000A0- | 17 | 0.6693 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-17.500A0- | 17.5 | 0.6890 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-18.000A0- | 18 | 0.7087 | | 71 | 143 | 93 | 48 | 18 | |
| DC150-05-19.000A0- | 19 | 0.7480 | | 77 | 153 | 101 | 50 | 20 | |

Ordering example for the grade WJ30TA: DC150-05-03.000A0-WJ30TA

## Tool




DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30TA |
|---|---|---|---|---|---|---|---|---|---|
| DC150-05-19.500A0- | 19.5 | 0.7677 | | 77 | 153 | 101 | 50 | 20 | ● |
| DC150-05-20.000A0- | 20 | 0.7874 | | 77 | 153 | 101 | 50 | 20 | ● |

Ordering example for the grade WJ30TA: DC150-05-03.000A0-WJ30TA

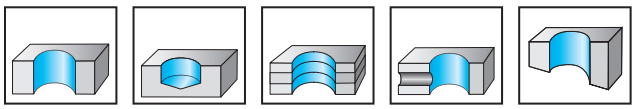
B1

# Solid carbide countersinkers

## A3367

## BSX

– SX ground tip

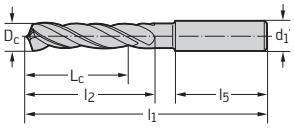


5×$D_c$ | DIN 6537 L | 130°

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

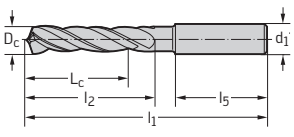
B1

### Tool




DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 |
|---|---|---|---|---|---|---|---|---|
| A3367-3 | 3 | 0.1181 | | 23 | 66 | 28 | 36 | 6 |
| A3367-3.15 | 3.15 | 0.1240 | | 23 | 66 | 28 | 36 | 6 |
| A3367-1/8IN | 3.175 | 0.1250 | 1/8" | 23 | 66 | 28 | 36 | 6 |
| A3367-3.3 | 3.3 | 0.1299 | | 23 | 66 | 28 | 36 | 6 |
| A3367-3.5 | 3.5 | 0.1378 | | 23 | 66 | 28 | 36 | 6 |
| A3367-3.7 | 3.7 | 0.1457 | | 23 | 66 | 28 | 36 | 6 |
| A3367-3.8 | 3.8 | 0.1496 | | 29 | 74 | 36 | 36 | 6 |
| A3367-5/32IN | 3.969 | 0.1563 | 5/32" | 29 | 74 | 36 | 36 | 6 |
| A3367-4 | 4 | 0.1575 | | 29 | 74 | 36 | 36 | 6 |
| A3367-4.2 | 4.2 | 0.1654 | | 29 | 74 | 36 | 36 | 6 |
| A3367-4.3 | 4.3 | 0.1693 | | 29 | 74 | 36 | 36 | 6 |
| A3367-4.45 | 4.45 | 0.1752 | | 29 | 74 | 36 | 36 | 6 |
| A3367-4.5 | 4.5 | 0.1772 | | 29 | 74 | 36 | 36 | 6 |
| A3367-4.65 | 4.65 | 0.1831 | | 29 | 74 | 36 | 36 | 6 |
| A3367-3/16IN | 4.763 | 0.1875 | 3/16" | 35 | 82 | 44 | 36 | 6 |
| A3367-5 | 5 | 0.1969 | | 35 | 82 | 44 | 36 | 6 |
| A3367-13/64IN | 5.159 | 0.2031 | 13/64" | 35 | 82 | 44 | 36 | 6 |
| A3367-5.5 | 5.5 | 0.2165 | | 35 | 82 | 44 | 36 | 6 |
| A3367-5.55 | 5.55 | 0.2185 | | 35 | 82 | 44 | 36 | 6 |
| A3367-5.75 | 5.75 | 0.2264 | | 35 | 82 | 44 | 36 | 6 |
| A3367-5.9 | 5.9 | 0.2323 | | 35 | 82 | 44 | 36 | 6 |
| A3367-6 | 6 | 0.2362 | | 35 | 82 | 44 | 36 | 6 |
| A3367-6.55 | 6.55 | 0.2579 | | 43 | 91 | 53 | 36 | 8 |
| A3367-17/64IN | 6.747 | 0.2656 | 17/64" | 43 | 91 | 53 | 36 | 8 |
| A3367-6.8 | 6.8 | 0.2677 | | 43 | 91 | 53 | 36 | 8 |
| A3367-7 | 7 | 0.2756 | | 43 | 91 | 53 | 36 | 8 |
| A3367-7.25 | 7.25 | 0.2854 | | 43 | 91 | 53 | 36 | 8 |
| A3367-8 | 8 | 0.3150 | | 43 | 91 | 53 | 36 | 8 |
| A3367-8.5 | 8.5 | 0.3346 | | 49 | 103 | 61 | 40 | 10 |
| A3367-9 | 9 | 0.3543 | | 49 | 103 | 61 | 40 | 10 |
| A3367-25/64IN | 9.922 | 0.3906 | 25/64" | 49 | 103 | 61 | 40 | 10 |
| A3367-10 | 10 | 0.3937 | | 49 | 103 | 61 | 40 | 10 |
| A3367-10.2 | 10.2 | 0.4016 | | 56 | 118 | 71 | 45 | 12 |
| A3367-11 | 11 | 0.4331 | | 56 | 118 | 71 | 45 | 12 |
| A3367-12 | 12 | 0.4724 | | 56 | 118 | 71 | 45 | 12 |
| A3367-13 | 13 | 0.5118 | | 60 | 124 | 77 | 45 | 14 |
| A3367-13.5 | 13.5 | 0.5315 | | 60 | 124 | 77 | 45 | 14 |
| A3367-15 | 15 | 0.5906 | | 63 | 133 | 83 | 48 | 16 |
| A3367-16 | 16 | 0.6299 | | 63 | 133 | 83 | 48 | 16 |




DIN 6535 HA

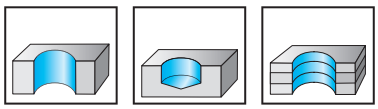
**WALTER SELECT**

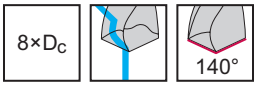
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide micro twist drills
# DB133 Supreme



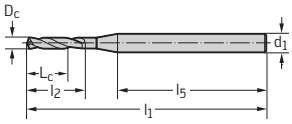





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30ER | ●● | | ●● | ●● | ● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | m7 mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| DB133-08-00.500A0- | 0.5 | 0.0197 | | 5.2 | 48 | 6 | 35 | 3 | ☺ |
| DB133-08-00.600A0- | 0.6 | 0.0236 | | 6.1 | 48 | 7 | 34 | 3 | ☺ |
| DB133-08-00.700A0- | 0.7 | 0.0276 | | 6.9 | 50 | 8 | 35 | 3 | ☺ |
| DB133-08-00.750A0- | 0.75 | 0.0295 | | 7.8 | 50 | 9 | 34 | 3 | ☺ |
| DB133-08-00.794A0- | 0.794 | 0.0313 | 1/32" | 7.8 | 50 | 9 | 34 | 3 | ☺ |
| DB133-08-00.800A0- | 0.8 | 0.0315 | | 7.8 | 50 | 9 | 34 | 3 | ☺ |
| DB133-08-00.880A0- | 0.88 | 0.0346 | | 8.6 | 53 | 10 | 36 | 3 | ☺ |
| DB133-08-00.900A0- | 0.9 | 0.0354 | | 8.6 | 53 | 10 | 36 | 3 | ☺ |
| DB133-08-00.950A0- | 0.95 | 0.0374 | | 10.5 | 53 | 12 | 34 | 3 | ☺ |
| DB133-08-01.000A0- | 1 | 0.0394 | | 10.5 | 53 | 12 | 34 | 3 | ☺ |
| DB133-08-01.050A0- | 1.05 | 0.0413 | | 11 | 54 | 13 | 35 | 3 | ☺ |
| DB133-08-01.100A0- | 1.1 | 0.0433 | | 11 | 54 | 13 | 35 | 3 | ☺ |
| DB133-08-01.191A0- | 1.191 | 0.0469 | 3/64" | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.200A0- | 1.2 | 0.0472 | | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.250A0- | 1.25 | 0.0492 | | 12 | 54 | 14 | 34 | 3 | ☺ |
| DB133-08-01.300A0- | 1.3 | 0.0512 | | 13 | 57 | 15 | 36 | 3 | ☺ |
| DB133-08-01.350A0- | 1.35 | 0.0531 | | 13 | 57 | 16 | 35 | 3 | ☺ |
| DB133-08-01.400A0- | 1.4 | 0.0551 | | 13 | 57 | 16 | 35 | 3 | ☺ |
| DB133-08-01.450A0- | 1.45 | 0.0571 | | 14 | 57 | 17 | 34 | 3 | ☺ |
| DB133-08-01.500A0- | 1.5 | 0.0591 | | 14 | 57 | 17 | 34 | 3 | ☺ |
| DB133-08-01.550A0- | 1.55 | 0.0610 | | 15 | 60 | 18 | 37 | 3 | ☺ |
| DB133-08-01.588A0- | 1.588 | 0.0625 | 1/16" | 15 | 60 | 18 | 37 | 3 | ☺ |
| DB133-08-01.600A0- | 1.6 | 0.0630 | | 15 | 60 | 18 | 37 | 3 | ☺ |
| DB133-08-01.650A0- | 1.65 | 0.0650 | | 17 | 60 | 20 | 35 | 3 | ☺ |
| DB133-08-01.700A0- | 1.7 | 0.0669 | | 17 | 60 | 20 | 35 | 3 | ☺ |
| DB133-08-01.750A0- | 1.75 | 0.0689 | | 18 | 60 | 21 | 34 | 3 | ☺ |
| DB133-08-01.800A0- | 1.8 | 0.0709 | | 18 | 60 | 21 | 34 | 3 | ☺ |
| DB133-08-01.820A0- | 1.82 | 0.0717 | | 19 | 63 | 22 | 36 | 3 | ☺ |
| DB133-08-01.850A0- | 1.85 | 0.0728 | | 19 | 63 | 22 | 36 | 3 | ☺ |
| DB133-08-01.900A0- | 1.9 | 0.0748 | | 19 | 63 | 22 | 36 | 3 | ☺ |
| DB133-08-01.950A0- | 1.95 | 0.0768 | | 20 | 63 | 23 | 35 | 3 | ☺ |
| DB133-08-01.984A0- | 1.984 | 0.0781 | 5/64" | 20 | 63 | 23 | 35 | 3 | ☺ |
| DB133-08-02.000A0- | 2 | 0.0787 | | 20 | 63 | 23 | 35 | 3 | ☺ |
| DB133-08-02.050A0- | 2.05 | 0.0807 | | 20 | 63 | 24 | 35 | 3 | ☺ |
| DB133-08-02.100A0- | 2.1 | 0.0827 | | 20 | 63 | 24 | 35 | 3 | ☺ |

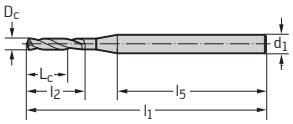
Ordering example for the grade WJ30ER: DB133-08-00.500A0-WJ30ER

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

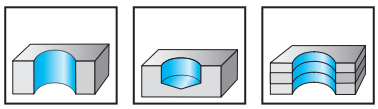
| Designation | m7 mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30ER |
|---|---|---|---|---|---|---|---|---|---|
| DB133-08-02.150A0- | 2.15 | 0.0846 | | 21 | 63 | 25 | 34 | 3 | |
| DB133-08-02.200A0- | 2.2 | 0.0866 | | 21 | 63 | 25 | 34 | 3 | |
| DB133-08-02.250A0- | 2.25 | 0.0886 | | 22 | 67 | 26 | 37 | 3 | |
| DB133-08-02.300A0- | 2.3 | 0.0906 | | 22 | 67 | 26 | 37 | 3 | |
| DB133-08-02.350A0- | 2.35 | 0.0925 | | 24 | 67 | 28 | 35 | 3 | |
| DB133-08-02.381A0- | 2.381 | 0.0937 | 3/32" | 24 | 67 | 28 | 35 | 3 | |
| DB133-08-02.400A0- | 2.4 | 0.0945 | | 24 | 67 | 28 | 35 | 3 | |
| DB133-08-02.450A0- | 2.45 | 0.0965 | | 25 | 67 | 29 | 34 | 3 | |
| DB133-08-02.500A0- | 2.5 | 0.0984 | | 25 | 67 | 29 | 34 | 3 | |
| DB133-08-02.550A0- | 2.55 | 0.1004 | | 26 | 71 | 30 | 37 | 3 | |
| DB133-08-02.600A0- | 2.6 | 0.1024 | | 26 | 71 | 30 | 37 | 3 | |
| DB133-08-02.650A0- | 2.65 | 0.1043 | | 26 | 71 | 31 | 37 | 3 | |
| DB133-08-02.700A0- | 2.7 | 0.1063 | | 26 | 71 | 31 | 37 | 3 | |
| DB133-08-02.750A0- | 2.75 | 0.1083 | | 27 | 71 | 32 | 36 | 3 | |
| DB133-08-02.778A0- | 2.778 | 0.1094 | 7/64" | 27 | 71 | 32 | 36 | 3 | |
| DB133-08-02.800A0- | 2.8 | 0.1102 | | 27 | 71 | 32 | 36 | 3 | |
| DB133-08-02.850A0- | 2.85 | 0.1122 | | 28 | 71 | 33 | 35 | 3 | |
| DB133-08-02.900A0- | 2.9 | 0.1142 | | 28 | 71 | 33 | 35 | 3 | |
| DB133-08-02.950A0- | 2.95 | 0.1161 | | 29 | 71 | 34 | 34 | 3 | |

Ordering example for the grade WJ30ER: DB133-08-00.500A0-WJ30ER

# Solid carbide twist drills

## A1276TFL

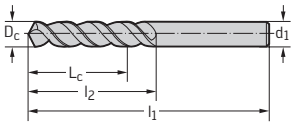
## Alpha® 22




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

B1

### Tool




Cylindrical shank

| Designation | h7 mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1276TFL-3 | 3 | 0.1181 | 28 | 61 | 33 | 3 |
| A1276TFL-3.1 | 3.1 | 0.1220 | 30 | 65 | 36 | 3.1 |
| A1276TFL-3.2 | 3.2 | 0.1260 | 30 | 65 | 36 | 3.2 |
| A1276TFL-3.3 | 3.3 | 0.1299 | 30 | 65 | 36 | 3.3 |
| A1276TFL-3.4 | 3.4 | 0.1339 | 33 | 70 | 39 | 3.4 |
| A1276TFL-3.5 | 3.5 | 0.1378 | 33 | 70 | 39 | 3.5 |
| A1276TFL-3.7 | 3.7 | 0.1457 | 33 | 70 | 39 | 3.7 |
| A1276TFL-3.8 | 3.8 | 0.1496 | 36 | 75 | 43 | 3.8 |
| A1276TFL-4 | 4 | 0.1575 | 36 | 75 | 43 | 4 |
| A1276TFL-4.2 | 4.2 | 0.1654 | 36 | 75 | 43 | 4.2 |
| A1276TFL-4.3 | 4.3 | 0.1693 | 39 | 80 | 47 | 4.3 |
| A1276TFL-4.5 | 4.5 | 0.1772 | 39 | 80 | 47 | 4.5 |
| A1276TFL-4.7 | 4.7 | 0.1850 | 39 | 80 | 47 | 4.7 |
| A1276TFL-4.8 | 4.8 | 0.1890 | 44 | 86 | 52 | 4.8 |
| A1276TFL-5 | 5 | 0.1969 | 44 | 86 | 52 | 5 |
| A1276TFL-5.1 | 5.1 | 0.2008 | 44 | 86 | 52 | 5.1 |
| A1276TFL-5.2 | 5.2 | 0.2047 | 44 | 86 | 52 | 5.2 |
| A1276TFL-5.5 | 5.5 | 0.2165 | 48 | 93 | 57 | 5.5 |
| A1276TFL-5.8 | 5.8 | 0.2283 | 48 | 93 | 57 | 5.8 |
| A1276TFL-6 | 6 | 0.2362 | 48 | 93 | 57 | 6 |
| A1276TFL-6.1 | 6.1 | 0.2402 | 52 | 101 | 63 | 6.1 |
| A1276TFL-6.5 | 6.5 | 0.2559 | 52 | 101 | 63 | 6.5 |
| A1276TFL-6.6 | 6.6 | 0.2598 | 52 | 101 | 63 | 6.6 |
| A1276TFL-6.8 | 6.8 | 0.2677 | 57 | 109 | 69 | 6.8 |
| A1276TFL-7 | 7 | 0.2756 | 57 | 109 | 69 | 7 |
| A1276TFL-8 | 8 | 0.3150 | 62 | 117 | 75 | 8 |
| A1276TFL-8.5 | 8.5 | 0.3346 | 62 | 117 | 75 | 8.5 |
| A1276TFL-9 | 9 | 0.3543 | 66 | 125 | 81 | 9 |
| A1276TFL-10 | 10 | 0.3937 | 71 | 133 | 87 | 10 |
| A1276TFL-10.2 | 10.2 | 0.4016 | 71 | 133 | 87 | 10.2 |

**WALTER SELECT**

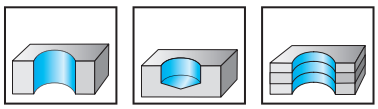
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide twist drills

## A1263

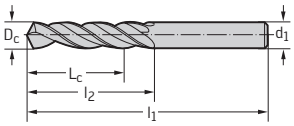
– Type N




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

B1

### Tool




Cylindrical shank

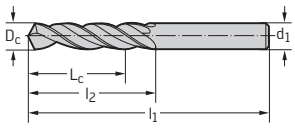
| Designation | h7 mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1263-0.6 | 0.6 | 0.0236 | 6.1 | 24 | 7 | 0.6 |
| A1263-0.7 | 0.7 | 0.0276 | 7.8 | 28 | 9 | 0.7 |
| A1263-0.8 | 0.8 | 0.0315 | 8.7 | 30 | 10 | 0.8 |
| A1263-0.9 | 0.9 | 0.0354 | 9.5 | 32 | 11 | 0.9 |
| A1263-1 | 1 | 0.0394 | 10 | 34 | 12 | 1 |
| A1263-1.1 | 1.1 | 0.0433 | 12 | 36 | 14 | 1.1 |
| A1263-1.2 | 1.2 | 0.0472 | 14 | 38 | 16 | 1.2 |
| A1263-1.3 | 1.3 | 0.0512 | 14 | 38 | 16 | 1.3 |
| A1263-1.4 | 1.4 | 0.0551 | 15 | 40 | 18 | 1.4 |
| A1263-1.5 | 1.5 | 0.0591 | 15 | 40 | 18 | 1.5 |
| A1263-1.6 | 1.6 | 0.0630 | 17 | 43 | 20 | 1.6 |
| A1263-1.7 | 1.7 | 0.0669 | 17 | 43 | 20 | 1.7 |
| A1263-1.8 | 1.8 | 0.0709 | 19 | 46 | 22 | 1.8 |
| A1263-1.9 | 1.9 | 0.0748 | 19 | 46 | 22 | 1.9 |
| A1263-2 | 2 | 0.0787 | 20 | 49 | 24 | 2 |
| A1263-2.1 | 2.1 | 0.0827 | 20 | 49 | 24 | 2.1 |
| A1263-2.2 | 2.2 | 0.0866 | 23 | 53 | 27 | 2.2 |
| A1263-2.3 | 2.3 | 0.0906 | 23 | 53 | 27 | 2.3 |
| A1263-2.4 | 2.4 | 0.0945 | 26 | 57 | 30 | 2.4 |
| A1263-2.5 | 2.5 | 0.0984 | 26 | 57 | 30 | 2.5 |
| A1263-2.6 | 2.6 | 0.1024 | 26 | 57 | 30 | 2.6 |
| A1263-2.7 | 2.7 | 0.1063 | 28 | 61 | 33 | 2.7 |
| A1263-2.8 | 2.8 | 0.1102 | 28 | 61 | 33 | 2.8 |
| A1263-2.9 | 2.9 | 0.1142 | 28 | 61 | 33 | 2.9 |
| A1263-3 | 3 | 0.1181 | 28 | 61 | 33 | 3 |
| A1263-3.1 | 3.1 | 0.1220 | 30 | 65 | 36 | 3.1 |
| A1263-3.2 | 3.2 | 0.1260 | 30 | 65 | 36 | 3.2 |
| A1263-3.3 | 3.3 | 0.1299 | 30 | 65 | 36 | 3.3 |
| A1263-3.4 | 3.4 | 0.1339 | 33 | 70 | 39 | 3.4 |
| A1263-3.5 | 3.5 | 0.1378 | 33 | 70 | 39 | 3.5 |
| A1263-3.6 | 3.6 | 0.1417 | 33 | 70 | 39 | 3.6 |
| A1263-3.7 | 3.7 | 0.1457 | 33 | 70 | 39 | 3.7 |
| A1263-3.8 | 3.8 | 0.1496 | 36 | 75 | 43 | 3.8 |
| A1263-3.9 | 3.9 | 0.1535 | 36 | 75 | 43 | 3.9 |
| A1263-4 | 4 | 0.1575 | 36 | 75 | 43 | 4 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

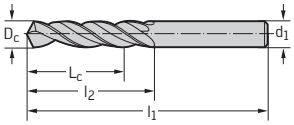
## Tool




Cylindrical shank

| Designation | h7 mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1263-4.1 | 4.1 | 0.1614 | 36 | 75 | 43 | 4.1 |
| A1263-4.2 | 4.2 | 0.1654 | 36 | 75 | 43 | 4.2 |
| A1263-4.3 | 4.3 | 0.1693 | 39 | 80 | 47 | 4.3 |
| A1263-4.4 | 4.4 | 0.1732 | 39 | 80 | 47 | 4.4 |
| A1263-4.5 | 4.5 | 0.1772 | 39 | 80 | 47 | 4.5 |
| A1263-4.6 | 4.6 | 0.1811 | 39 | 80 | 47 | 4.6 |
| A1263-4.7 | 4.7 | 0.1850 | 39 | 80 | 47 | 4.7 |
| A1263-4.8 | 4.8 | 0.1890 | 44 | 86 | 52 | 4.8 |
| A1263-4.9 | 4.9 | 0.1929 | 44 | 86 | 52 | 4.9 |
| A1263-5 | 5 | 0.1969 | 44 | 86 | 52 | 5 |
| A1263-5.1 | 5.1 | 0.2008 | 44 | 86 | 52 | 5.1 |
| A1263-5.2 | 5.2 | 0.2047 | 44 | 86 | 52 | 5.2 |
| A1263-5.3 | 5.3 | 0.2087 | 44 | 86 | 52 | 5.3 |
| A1263-5.4 | 5.4 | 0.2126 | 48 | 93 | 57 | 5.4 |
| A1263-5.5 | 5.5 | 0.2165 | 48 | 93 | 57 | 5.5 |
| A1263-5.6 | 5.6 | 0.2205 | 48 | 93 | 57 | 5.6 |
| A1263-5.7 | 5.7 | 0.2244 | 48 | 93 | 57 | 5.7 |
| A1263-5.8 | 5.8 | 0.2283 | 48 | 93 | 57 | 5.8 |
| A1263-5.9 | 5.9 | 0.2323 | 48 | 93 | 57 | 5.9 |
| A1263-6 | 6 | 0.2362 | 48 | 93 | 57 | 6 |
| A1263-6.1 | 6.1 | 0.2402 | 52 | 101 | 63 | 6.1 |
| A1263-6.2 | 6.2 | 0.2441 | 52 | 101 | 63 | 6.2 |
| A1263-6.3 | 6.3 | 0.2480 | 52 | 101 | 63 | 6.3 |
| A1263-6.4 | 6.4 | 0.2520 | 52 | 101 | 63 | 6.4 |
| A1263-6.5 | 6.5 | 0.2559 | 52 | 101 | 63 | 6.5 |
| A1263-6.6 | 6.6 | 0.2598 | 52 | 101 | 63 | 6.6 |
| A1263-6.7 | 6.7 | 0.2638 | 52 | 101 | 63 | 6.7 |
| A1263-6.8 | 6.8 | 0.2677 | 57 | 109 | 69 | 6.8 |
| A1263-6.9 | 6.9 | 0.2717 | 57 | 109 | 69 | 6.9 |
| A1263-7 | 7 | 0.2756 | 57 | 109 | 69 | 7 |
| A1263-7.1 | 7.1 | 0.2795 | 57 | 109 | 69 | 7.1 |
| A1263-7.2 | 7.2 | 0.2835 | 57 | 109 | 69 | 7.2 |
| A1263-7.3 | 7.3 | 0.2874 | 57 | 109 | 69 | 7.3 |
| A1263-7.4 | 7.4 | 0.2913 | 57 | 109 | 69 | 7.4 |
| A1263-7.5 | 7.5 | 0.2953 | 57 | 109 | 69 | 7.5 |
| A1263-7.6 | 7.6 | 0.2992 | 62 | 117 | 75 | 7.6 |
| A1263-7.7 | 7.7 | 0.3031 | 62 | 117 | 75 | 7.7 |
| A1263-7.8 | 7.8 | 0.3071 | 62 | 117 | 75 | 7.8 |
| A1263-7.9 | 7.9 | 0.3110 | 62 | 117 | 75 | 7.9 |
| A1263-8 | 8 | 0.3150 | 62 | 117 | 75 | 8 |
| A1263-8.1 | 8.1 | 0.3189 | 62 | 117 | 75 | 8.1 |
| A1263-8.2 | 8.2 | 0.3228 | 62 | 117 | 75 | 8.2 |
| A1263-8.3 | 8.3 | 0.3268 | 62 | 117 | 75 | 8.3 |
| A1263-8.4 | 8.4 | 0.3307 | 62 | 117 | 75 | 8.4 |
| A1263-8.5 | 8.5 | 0.3346 | 62 | 117 | 75 | 8.5 |
| A1263-8.6 | 8.6 | 0.3386 | 66 | 125 | 81 | 8.6 |
| A1263-8.7 | 8.7 | 0.3425 | 66 | 125 | 81 | 8.7 |
| A1263-8.8 | 8.8 | 0.3465 | 66 | 125 | 81 | 8.8 |

## Tool

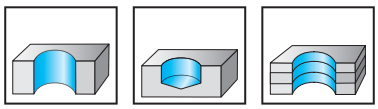


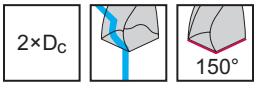

Cylindrical shank

| Designation | h7 mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1263-8.9 | 8.9 | 0.3504 | 66 | 125 | 81 | 8.9 |
| A1263-9 | 9 | 0.3543 | 66 | 125 | 81 | 9 |
| A1263-9.1 | 9.1 | 0.3583 | 66 | 125 | 81 | 9.1 |
| A1263-9.2 | 9.2 | 0.3622 | 66 | 125 | 81 | 9.2 |
| A1263-9.3 | 9.3 | 0.3661 | 66 | 125 | 81 | 9.3 |
| A1263-9.4 | 9.4 | 0.3701 | 66 | 125 | 81 | 9.4 |
| A1263-9.5 | 9.5 | 0.3740 | 66 | 125 | 81 | 9.5 |
| A1263-9.6 | 9.6 | 0.3780 | 71 | 133 | 87 | 9.6 |
| A1263-9.7 | 9.7 | 0.3819 | 71 | 133 | 87 | 9.7 |
| A1263-9.8 | 9.8 | 0.3858 | 71 | 133 | 87 | 9.8 |
| A1263-9.9 | 9.9 | 0.3898 | 71 | 133 | 87 | 9.9 |
| A1263-10 | 10 | 0.3937 | 71 | 133 | 87 | 10 |
| A1263-10.2 | 10.2 | 0.4016 | 71 | 133 | 87 | 10.2 |
| A1263-10.5 | 10.5 | 0.4134 | 71 | 133 | 87 | 10.5 |
| A1263-10.8 | 10.8 | 0.4252 | 76 | 142 | 94 | 10.8 |
| A1263-11 | 11 | 0.4331 | 76 | 142 | 94 | 11 |
| A1263-11.2 | 11.2 | 0.4409 | 76 | 142 | 94 | 11.2 |
| A1263-11.5 | 11.5 | 0.4528 | 76 | 142 | 94 | 11.5 |
| A1263-11.8 | 11.8 | 0.4646 | 76 | 142 | 94 | 11.8 |
| A1263-12 | 12 | 0.4724 | 87 | 151 | 101 | 12 |

# Solid carbide micro pilot drills
## DB131 Supreme



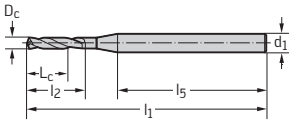





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WJ30EL | ●● | ●● | ●● | ●● | ● | ● | ● |

B1

## Tool




DIN 6535 HA

| Designation | p7 | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | $l_5$ mm | h6 | WJ30EL |
|---|---|---|---|---|---|---|---|---|---|
| DB131-02-00.500A0- | 0.5 | 0.0197 | | 2.2 | 47 | 3 | 37 | 3 | ☺ |
| DB131-02-00.600A0- | 0.6 | 0.0236 | | 2.1 | 47 | 3 | 37 | 3 | ☺ |
| DB131-02-00.700A0- | 0.7 | 0.0276 | | 2.9 | 48 | 4 | 39 | 3 | ☺ |
| DB131-02-00.750A0- | 0.75 | 0.0295 | | 2.8 | 48 | 4 | 37 | 3 | ☺ |
| DB131-02-00.794A0- | 0.794 | 0.0313 | 1/32" | 2.8 | 48 | 4 | 37 | 3 | ☺ |
| DB131-02-00.800A0- | 0.8 | 0.0315 | | 2.8 | 48 | 4 | 37 | 3 | ☺ |
| DB131-02-00.850A0- | 0.85 | 0.0335 | | 3.6 | 50 | 5 | 38 | 3 | ☺ |
| DB131-02-00.900A0- | 0.9 | 0.0354 | | 3.6 | 50 | 5 | 38 | 3 | ☺ |
| DB131-02-00.950A0- | 0.95 | 0.0374 | | 3.5 | 50 | 5 | 38 | 3 | ☺ |
| DB131-02-01.000A0- | 1 | 0.0394 | | 3.5 | 50 | 5 | 38 | 3 | ☺ |
| DB131-02-01.050A0- | 1.05 | 0.0413 | | 4 | 51 | 6 | 39 | 3 | ☺ |
| DB131-02-01.100A0- | 1.1 | 0.0433 | | 4 | 51 | 6 | 39 | 3 | ☺ |
| DB131-02-01.150A0- | 1.15 | 0.0453 | | 4 | 51 | 6 | 39 | 3 | ☺ |
| DB131-02-01.191A0- | 1.191 | 0.0469 | 3/64" | 4 | 51 | 6 | 39 | 3 | ☺ |
| DB131-02-01.200A0- | 1.2 | 0.0472 | | 4 | 51 | 6 | 39 | 3 | ☺ |
| DB131-02-01.250A0- | 1.25 | 0.0492 | | 4 | 51 | 6 | 39 | 3 | ☺ |
| DB131-02-01.300A0- | 1.3 | 0.0512 | | 5 | 53 | 7 | 40 | 3 | ☺ |
| DB131-02-01.350A0- | 1.35 | 0.0531 | | 4 | 53 | 7 | 40 | 3 | ☺ |
| DB131-02-01.400A0- | 1.4 | 0.0551 | | 4 | 53 | 7 | 40 | 3 | ☺ |
| DB131-02-01.450A0- | 1.45 | 0.0571 | | 5 | 53 | 8 | 39 | 3 | ☺ |
| DB131-02-01.500A0- | 1.5 | 0.0591 | | 5 | 53 | 8 | 39 | 3 | ☺ |
| DB131-02-01.550A0- | 1.55 | 0.0610 | | 5 | 54 | 8 | 41 | 3 | ☺ |
| DB131-02-01.588A0- | 1.588 | 0.0625 | 1/16" | 5 | 54 | 8 | 41 | 3 | ☺ |
| DB131-02-01.600A0- | 1.6 | 0.0630 | | 5 | 54 | 8 | 41 | 3 | ☺ |
| DB131-02-01.650A0- | 1.65 | 0.0650 | | 6 | 54 | 9 | 40 | 3 | ☺ |
| DB131-02-01.700A0- | 1.7 | 0.0669 | | 6 | 54 | 9 | 40 | 3 | ☺ |
| DB131-02-01.750A0- | 1.75 | 0.0689 | | 6 | 54 | 9 | 40 | 3 | ☺ |
| DB131-02-01.800A0- | 1.8 | 0.0709 | | 6 | 54 | 9 | 40 | 3 | ☺ |
| DB131-02-01.850A0- | 1.85 | 0.0728 | | 7 | 57 | 10 | 42 | 3 | ☺ |
| DB131-02-01.900A0- | 1.9 | 0.0748 | | 7 | 57 | 10 | 42 | 3 | ☺ |
| DB131-02-01.950A0- | 1.95 | 0.0768 | | 7 | 57 | 10 | 42 | 3 | ☺ |
| DB131-02-01.984A0- | 1.984 | 0.0781 | 5/64" | 7 | 57 | 10 | 42 | 3 | ☺ |

Ordering example for the grade WJ30EL: DB131-02-00.500A0-WJ30EL

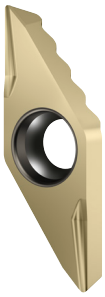
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

B1

# Drilling/chamfering tools

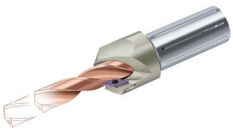
| | | |
|---|---|---|
| **Drilling depth** | | |
| |  |  |
| **Designation** | P6200<br>Tiger·tec® | D4580<br>Xtra·tec® |
| **Additional services** | | |
| **Standard** | | |
| **Coating / grade** | WSP45G | |
| **Shank** | | Cylindrical shank with collar |
| **Diameter range [mm]** | – | – |
| **P** Steel | | ●● |
| **M** Stainless steel | | ●● |
| **K** Cast iron | | ●● |
| **N** NF metals | | ●● |
| **S** Materials with difficult cutting properties | | ●● |
| **H** Hard materials | | |
| **O** Other | | |
| **Page in catalog** | **B 187** | **B 185** |
| **QR code** | | |
| www.walter-tools.com/woc/ | VCGX | D4580 |

**WALTER SELECT** ●● Primary application ● Other application

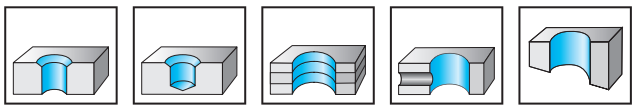
# Chamfering tool

## D4580 inch

## Xtra·tec®



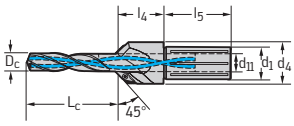
Z=2



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4580 | ●● | ●● | ●● | ●● | ●● | | |

B1

## Tool




Zylinderschaft mit Bund

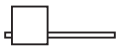
| Designation | $D_{cmin}$ inch | $D_{c\,max}$ inch | $d_{11}$ inch | $d_1$ inch | $d_4$ inch | $l_4$ inch | $l_5$ inch | lbs | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| D4580.45-06.00A13-VC09 | 0.157 | 0.236 | 0.236 | 0.500 | 0.827 | 1.000 | 1.614 | 0.001 | 2 | VC .. 09 .. |
| D4580.45-08.00A15-VC09 | 0.24 | 0.315 | 0.315 | 0.625 | 0.984 | 1.000 | 1.752 | 0.002 | 2 | |
| D4580.45-10.00A15-VC09 | 0.319 | 0.394 | 0.394 | 0.625 | 0.984 | 1.000 | 1.752 | 0.002 | 2 | |
| D4580.45-12.00A19-VC09 | 0.398 | 0.472 | 0.472 | 0.750 | 1.102 | 1.000 | 1.831 | 0.002 | 2 | |
| D4580.45-14.00A19-VC09 | 0.476 | 0.551 | 0.551 | 0.750 | 1.181 | 1.000 | 1.831 | 0.003 | 2 | |
| D4580.45-16.00A26-VC09 | 0.555 | 0.630 | 0.630 | 1.000 | 1.260 | 1.339 | 2.087 | 0.003 | 2 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_{cmin}$ | 0.16–0.56 |
|---|---|---|
|  | Cartridge | FK390 |
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>8 in lbs |
|  | Adjusting screw | FS2029 (SW 1.5) |

## Accessories

| | $D_{cmin}$ | 0.16–0.56 |
|---|---|---|
|  | Torx key | FS1490 (T7IP) |
|  | Keys | ISO2936-1.5 (SW 1.5) |

**WALTER SELECT**

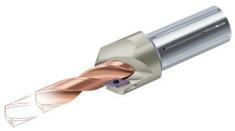
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

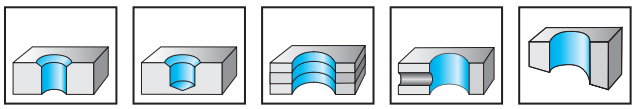
# Chamfering tool

## D4580 mm

## Xtra·tec®



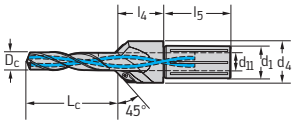
Z=2



B1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4580 | ●● | ●● | ●● | ●● | ●● | | |

## Tool




Zylinderschaft mit Bund

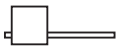
| Designation | $D_{cmin}$ mm | $D_{c\,max}$ mm | $d_{11}$ mm | $d_1$ mm | $d_4$ mm | $l_4$ mm | $l_5$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|---|
| D4580-45-06.00A12-VC09 | 4 | 6 | 6 | 12 | 21 | 25 | 41 | 0.03 | 2 | VC .. 09 .. |
| D4580-45-08.00A16-VC09 | 6.1 | 8 | 8 | 16 | 25 | 25 | 44.5 | 0.04 | 2 | |
| D4580-45-10.00A16-VC09 | 8.1 | 10 | 10 | 16 | 25 | 25 | 44.5 | 0.05 | 2 | |
| D4580-45-12.00A20-VC09 | 10.1 | 12 | 12 | 20 | 28 | 25 | 46.5 | 0.06 | 2 | |
| D4580-45-14.00A20-VC09 | 12.1 | 14 | 14 | 20 | 30 | 25 | 46.5 | 0.07 | 2 | |
| D4580-45-16.00A25-VC09 | 14.1 | 16 | 16 | 25 | 32 | 34 | 53 | 0.08 | 2 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_{cmin}$ | 4–14.1 |
|---|---|---|
|  | Cartridge | FK390 |
|  | Clamping screw for indexable insert<br>Tightening torque | FS2111 (T7IP)<br>0.9 Nm |
|  | Adjusting screw | FS2029 (SW 1.5) |

## Accessories

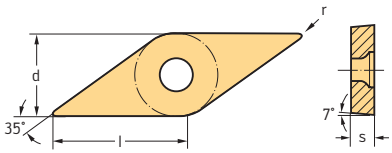
| | $D_{cmin}$ | 4–14.1 |
|---|---|---|
|  | Torx key | FS1490 (T7IP) |
|  | Keys | ISO2936-1.5 (SW 1.5) |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Positive rhombic 35°
# VCGX




## Indexable inserts

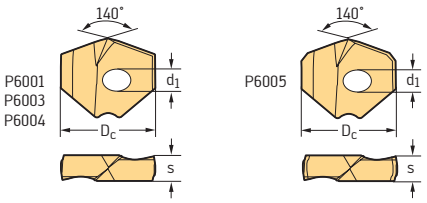
| | Designation | Number of cutting edges | l mm | r mm | s mm | d mm | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | VCGX0902ACFR | 2 | 9 | 0.2 | 2.5 | 5.556 | ☺ | ☺ | ☺ | ☺ | ☺ |

HC = beschichtetes Hartmetall

B1

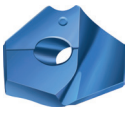
**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts



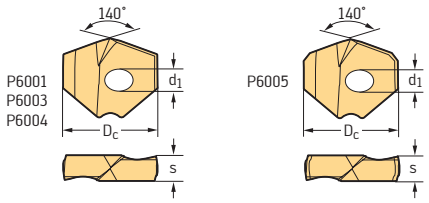
| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D12,00R | 1 | 12 | 0.472 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,10R | 1 | 12.1 | 0.476 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,20R | 1 | 12.2 | 0.480 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,30R | 1 | 12.3 | 0.484 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,40R | 1 | 12.4 | 0.488 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,50R | 1 | 12.5 | 0.492 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,60R | 1 | 12.6 | 0.496 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,70R | 1 | 12.7 | 0.500 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,80R | 1 | 12.8 | 0.504 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,90R | 1 | 12.9 | 0.508 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D12,95R | 1 | 12.95 | 0.510 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,00R | 1 | 13 | 0.512 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,11R | 1 | 13.11 | 0.516 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,20R | 1 | 13.2 | 0.520 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,25R | 1 | 13.25 | 0.522 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,30R | 1 | 13.3 | 0.524 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,40R | 1 | 13.4 | 0.528 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,50R | 1 | 13.5 | 0.532 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,60R | 1 | 13.6 | 0.535 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,70R | 1 | 13.7 | 0.539 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,80R | 1 | 13.8 | 0.543 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D13,89R | 1 | 13.89 | 0.547 | A | 3 | 0.118 | 3.6 | 0.142 | | | 😐 | | | | |
| | P6001-D14,00R | 1 | 14 | 0.551 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,10R | 1 | 14.1 | 0.555 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,20R | 1 | 14.2 | 0.559 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,30R | 1 | 14.3 | 0.563 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,40R | 1 | 14.4 | 0.567 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,50R | 1 | 14.5 | 0.571 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,60R | 1 | 14.6 | 0.575 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,68R | 1 | 14.68 | 0.578 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,80R | 1 | 14.8 | 0.583 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D14,90R | 1 | 14.9 | 0.587 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,00R | 1 | 15 | 0.591 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,09R | 1 | 15.09 | 0.594 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,20R | 1 | 15.2 | 0.598 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,30R | 1 | 15.3 | 0.602 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,40R | 1 | 15.4 | 0.606 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,47R | 1 | 15.47 | 0.609 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,50R | 1 | 15.5 | 0.610 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,60R | 1 | 15.6 | 0.614 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,70R | 1 | 15.7 | 0.618 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,80R | 1 | 15.8 | 0.622 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |
| | P6001-D15,87R | 1 | 15.87 | 0.625 | B | 3 | 0.118 | 4 | 0.158 | | | 😐 | | | | |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

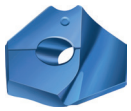
HC = Coated carbide

**WALTER SELECT** Optimum indexable insert for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

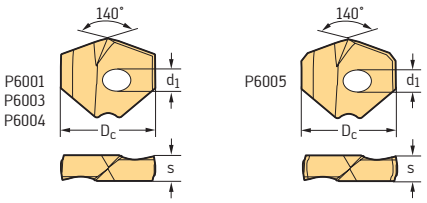


| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P6001-D16,00R | 1 | 16 | 0.630 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D16,13R | 1 | 16.13 | 0.635 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D16,26R | 1 | 16.26 | 0.640 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D16,43R | 1 | 16.43 | 0.647 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D16,50R | 1 | 16.5 | 0.650 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D16,66R | 1 | 16.66 | 0.656 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D16,70R | 1 | 16.7 | 0.658 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,00R | 1 | 17 | 0.669 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,07R | 1 | 17.07 | 0.672 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,20R | 1 | 17.2 | 0.677 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,45R | 1 | 17.45 | 0.687 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,50R | 1 | 17.5 | 0.689 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,70R | 1 | 17.7 | 0.697 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D17,86R | 1 | 17.86 | 0.703 | C | 4 | 0.158 | 4.5 | 0.177 | | | ● | | | | |
| P6001-D18,00R | 1 | 18 | 0.709 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D18,24R | 1 | 18.24 | 0.718 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D18,50R | 1 | 18.5 | 0.728 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D18,65R | 1 | 18.65 | 0.734 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D18,70R | 1 | 18.7 | 0.736 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D18,80R | 1 | 18.8 | 0.740 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,00R | 1 | 19 | 0.748 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,05R | 1 | 19.05 | 0.750 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,20R | 1 | 19.2 | 0.756 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,25R | 1 | 19.25 | 0.758 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,30R | 1 | 19.3 | 0.760 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,43R | 1 | 19.43 | 0.765 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,50R | 1 | 19.5 | 0.768 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,60R | 1 | 19.6 | 0.772 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,70R | 1 | 19.7 | 0.776 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D19,84R | 1 | 19.84 | 0.781 | D | 4 | 0.158 | 5 | 0.197 | | | ● | | | | |
| P6001-D20,00R | 1 | 20 | 0.787 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D20,20R | 1 | 20.2 | 0.795 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D20,24R | 1 | 20.24 | 0.797 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D20,50R | 1 | 20.5 | 0.807 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D20,62R | 1 | 20.62 | 0.812 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D20,70R | 1 | 20.7 | 0.815 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D21,00R | 1 | 21 | 0.827 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D21,41R | 1 | 21.41 | 0.843 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D21,50R | 1 | 21.5 | 0.847 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D21,70R | 1 | 21.7 | 0.854 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D21,83R | 1 | 21.83 | 0.859 | E | 5 | 0.197 | 5.5 | 0.217 | | | ● | | | | |
| P6001-D22,00R | 1 | 22 | 0.866 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| P6001-D22,22R | 1 | 22.22 | 0.875 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

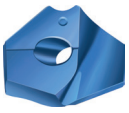
HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

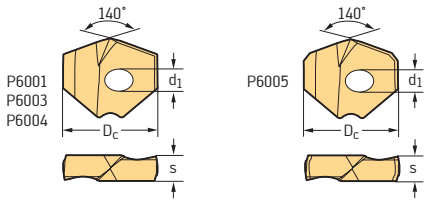
B1

| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D22,42R | 1 | 22.42 | 0.883 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D22,47R | 1 | 22.47 | 0.885 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D22,50R | 1 | 22.5 | 0.886 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D22,62R | 1 | 22.62 | 0.891 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D22,70R | 1 | 22.7 | 0.894 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D22,77R | 1 | 22.77 | 0.897 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D23,00R | 1 | 23 | 0.906 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D23,39R | 1 | 23.39 | 0.921 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D23,50R | 1 | 23.5 | 0.925 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D23,70R | 1 | 23.7 | 0.933 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D23,80R | 1 | 23.8 | 0.937 | F | 5 | 0.197 | 6 | 0.236 | | | ● | | | | |
| | P6001-D24,00R | 1 | 24 | 0.945 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D24,21R | 1 | 24.21 | 0.953 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D24,50R | 1 | 24.5 | 0.965 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D24,59R | 1 | 24.59 | 0.968 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D24,70R | 1 | 24.7 | 0.972 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,00R | 1 | 25 | 0.984 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,25R | 1 | 25.25 | 0.994 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,40R | 1 | 25.4 | 1.000 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,50R | 1 | 25.5 | 1.004 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,65R | 1 | 25.65 | 1.010 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,70R | 1 | 25.7 | 1.012 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D25,80R | 1 | 25.8 | 1.016 | G | 5 | 0.197 | 6.5 | 0.256 | | | ● | | | | |
| | P6001-D26,00R | 1 | 26 | 1.024 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D26,25R | 1 | 26.25 | 1.034 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D26,50R | 1 | 26.5 | 1.043 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D26,59R | 1 | 26.59 | 1.047 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D27,00R | 1 | 27 | 1.063 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D27,38R | 1 | 27.38 | 1.078 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D27,50R | 1 | 27.5 | 1.083 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D27,78R | 1 | 27.78 | 1.094 | H | 6 | 0.236 | 7.1 | 0.280 | | | ● | | | | |
| | P6001-D28,00R | 1 | 28 | 1.102 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D28,17R | 1 | 28.17 | 1.109 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D28,50R | 1 | 28.5 | 1.122 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D28,57R | 1 | 28.57 | 1.125 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D29,00R | 1 | 29 | 1.142 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D29,37R | 1 | 29.37 | 1.156 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D29,50R | 1 | 29.5 | 1.161 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D29,77R | 1 | 29.77 | 1.172 | J | 6 | 0.236 | 7.7 | 0.303 | | | ● | | | | |
| | P6001-D30,00R | 1 | 30 | 1.181 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |
| | P6001-D30,15R | 1 | 30.15 | 1.187 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |
| | P6001-D30,50R | 1 | 30.5 | 1.201 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |
| | P6001-D31,00R | 1 | 31 | 1.221 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |

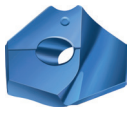
Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006



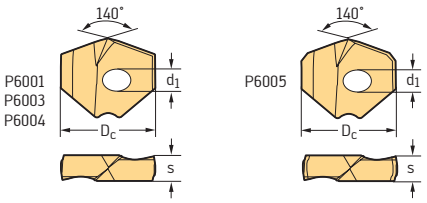

## Interchangeable inserts

| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D31,50R | 1 | 31.5 | 1.240 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |
| | P6001-D31,75R | 1 | 31.75 | 1.250 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |
| | P6001-D31,99R | 1 | 31.99 | 1.259 | K | 6 | 0.236 | 8 | 0.315 | | | ● | | | | |
| | P6001-D32,00R | 1 | 32 | 1.260 | M | 6 | 0.236 | 8.3 | 0.327 | | | ● | | | | |
| | P6001-D32,10R | 1 | 32.1 | 1.264 | M | 6 | 0.236 | 8.3 | 0.327 | | | ● | | | | |
| | P6001-D33,00R | 1 | 33 | 1.299 | M | 6 | 0.236 | 8.3 | 0.327 | | | ● | | | | |
| | P6001-D34,00R | 1 | 34 | 1.339 | N | 6 | 0.236 | 8.6 | 0.339 | | | ● | | | | |
| | P6001-D35,00R | 1 | 35 | 1.378 | N | 6 | 0.236 | 8.6 | 0.339 | | | ● | | | | |
| | P6001-D36,00R | 1 | 36 | 1.417 | P | 6 | 0.236 | 8.9 | 0.350 | | | ● | | | | |
| | P6001-D37,00R | 1 | 37 | 1.457 | P | 6 | 0.236 | 8.9 | 0.350 | | | ● | | | | |
| | P6001-D37,99R | 1 | 37.99 | 1.496 | P | 6 | 0.236 | 8.9 | 0.350 | | | ● | | | | |
|  | P6003-D12,00R | 1 | 12 | 0.472 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,10R | 1 | 12.1 | 0.476 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,20R | 1 | 12.2 | 0.480 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,30R | 1 | 12.3 | 0.484 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,40R | 1 | 12.4 | 0.488 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,50R | 1 | 12.5 | 0.492 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,60R | 1 | 12.6 | 0.496 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,70R | 1 | 12.7 | 0.500 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,80R | 1 | 12.8 | 0.504 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,90R | 1 | 12.9 | 0.508 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D12,95R | 1 | 12.95 | 0.510 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,00R | 1 | 13 | 0.512 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,11R | 1 | 13.11 | 0.516 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,20R | 1 | 13.2 | 0.520 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,25R | 1 | 13.25 | 0.522 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,30R | 1 | 13.3 | 0.524 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,40R | 1 | 13.4 | 0.528 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,50R | 1 | 13.5 | 0.532 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,60R | 1 | 13.6 | 0.535 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,70R | 1 | 13.7 | 0.539 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,80R | 1 | 13.8 | 0.543 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D13,89R | 1 | 13.89 | 0.547 | A | 3 | 0.118 | 3.6 | 0.142 | ● | | | ● | | | ● |
| | P6003-D14,00R | 1 | 14 | 0.551 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,10R | 1 | 14.1 | 0.555 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,20R | 1 | 14.2 | 0.559 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,30R | 1 | 14.3 | 0.563 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,40R | 1 | 14.4 | 0.567 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,50R | 1 | 14.5 | 0.571 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,60R | 1 | 14.6 | 0.575 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,68R | 1 | 14.68 | 0.578 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,80R | 1 | 14.8 | 0.583 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| | P6003-D14,90R | 1 | 14.9 | 0.587 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

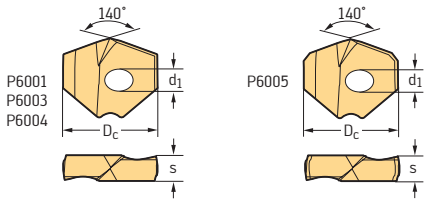


| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P6003-D15,00R | 1 | 15 | 0.591 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,09R | 1 | 15.09 | 0.594 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,20R | 1 | 15.2 | 0.598 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,30R | 1 | 15.3 | 0.602 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,40R | 1 | 15.4 | 0.606 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,47R | 1 | 15.47 | 0.609 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,50R | 1 | 15.5 | 0.610 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,60R | 1 | 15.6 | 0.614 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,70R | 1 | 15.7 | 0.618 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,80R | 1 | 15.8 | 0.622 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D15,87R | 1 | 15.87 | 0.625 | B | 3 | 0.118 | 4 | 0.158 | ● | | | ● | | | ● |
| P6003-D16,00R | 1 | 16 | 0.630 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D16,13R | 1 | 16.13 | 0.635 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D16,26R | 1 | 16.26 | 0.640 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D16,43R | 1 | 16.43 | 0.647 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D16,50R | 1 | 16.5 | 0.650 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D16,66R | 1 | 16.66 | 0.656 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D16,70R | 1 | 16.7 | 0.658 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,00R | 1 | 17 | 0.669 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,07R | 1 | 17.07 | 0.672 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,20R | 1 | 17.2 | 0.677 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,45R | 1 | 17.45 | 0.687 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,50R | 1 | 17.5 | 0.689 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,70R | 1 | 17.7 | 0.697 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D17,86R | 1 | 17.86 | 0.703 | C | 4 | 0.158 | 4.5 | 0.177 | ● | | | ● | | | ● |
| P6003-D18,00R | 1 | 18 | 0.709 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D18,24R | 1 | 18.24 | 0.718 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D18,50R | 1 | 18.5 | 0.728 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D18,65R | 1 | 18.65 | 0.734 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D18,70R | 1 | 18.7 | 0.736 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D18,80R | 1 | 18.8 | 0.740 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,00R | 1 | 19 | 0.748 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,05R | 1 | 19.05 | 0.750 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,20R | 1 | 19.2 | 0.756 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,25R | 1 | 19.25 | 0.758 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,30R | 1 | 19.3 | 0.760 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,43R | 1 | 19.43 | 0.765 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,50R | 1 | 19.5 | 0.768 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,60R | 1 | 19.6 | 0.772 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,70R | 1 | 19.7 | 0.776 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D19,84R | 1 | 19.84 | 0.781 | D | 4 | 0.158 | 5 | 0.197 | ● | | | ● | | | ● |
| P6003-D20,00R | 1 | 20 | 0.787 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D20,20R | 1 | 20.2 | 0.795 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006



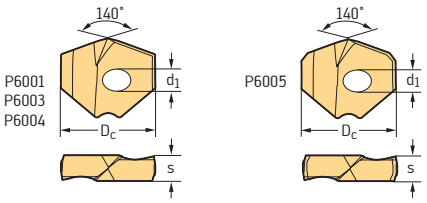

## Interchangeable inserts

| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P6003-D20,24R | 1 | 20.24 | 0.797 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D20,50R | 1 | 20.5 | 0.807 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D20,62R | 1 | 20.62 | 0.812 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D20,70R | 1 | 20.7 | 0.815 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D21,00R | 1 | 21 | 0.827 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D21,41R | 1 | 21.41 | 0.843 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D21,50R | 1 | 21.5 | 0.847 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D21,70R | 1 | 21.7 | 0.854 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D21,83R | 1 | 21.83 | 0.859 | E | 5 | 0.197 | 5.5 | 0.217 | ● | | | ● | | | ● |
| P6003-D22,00R | 1 | 22 | 0.866 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,22R | 1 | 22.22 | 0.875 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,42R | 1 | 22.42 | 0.883 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,47R | 1 | 22.47 | 0.885 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,50R | 1 | 22.5 | 0.886 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,62R | 1 | 22.62 | 0.891 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,70R | 1 | 22.7 | 0.894 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D22,77R | 1 | 22.77 | 0.897 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D23,00R | 1 | 23 | 0.906 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D23,39R | 1 | 23.39 | 0.921 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D23,50R | 1 | 23.5 | 0.925 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D23,70R | 1 | 23.7 | 0.933 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D23,80R | 1 | 23.8 | 0.937 | F | 5 | 0.197 | 6 | 0.236 | ● | | | ● | | | ● |
| P6003-D24,00R | 1 | 24 | 0.945 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D24,21R | 1 | 24.21 | 0.953 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D24,50R | 1 | 24.5 | 0.965 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D24,59R | 1 | 24.59 | 0.968 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D24,70R | 1 | 24.7 | 0.972 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,00R | 1 | 25 | 0.984 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,25R | 1 | 25.25 | 0.994 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,40R | 1 | 25.4 | 1.000 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,50R | 1 | 25.5 | 1.004 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,65R | 1 | 25.65 | 1.010 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,70R | 1 | 25.7 | 1.012 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D25,80R | 1 | 25.8 | 1.016 | G | 5 | 0.197 | 6.5 | 0.256 | ● | | | ● | | | ● |
| P6003-D26,00R | 1 | 26 | 1.024 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D26,25R | 1 | 26.25 | 1.034 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D26,50R | 1 | 26.5 | 1.043 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D26,59R | 1 | 26.59 | 1.047 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D27,00R | 1 | 27 | 1.063 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D27,38R | 1 | 27.38 | 1.078 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D27,50R | 1 | 27.5 | 1.083 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D27,78R | 1 | 27.78 | 1.094 | H | 6 | 0.236 | 7.1 | 0.280 | ● | | | ● | | | ● |
| P6003-D28,00R | 1 | 28 | 1.102 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

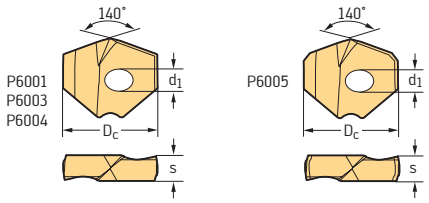
B1

| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6003-D28,17R | 1 | 28.17 | 1.109 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D28,50R | 1 | 28.5 | 1.122 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D28,57R | 1 | 28.57 | 1.125 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D29,00R | 1 | 29 | 1.142 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D29,37R | 1 | 29.37 | 1.156 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D29,50R | 1 | 29.5 | 1.161 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D29,77R | 1 | 29.77 | 1.172 | J | 6 | 0.236 | 7.7 | 0.303 | ● | | | ● | | | ● |
| | P6003-D30,00R | 1 | 30 | 1.181 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D30,15R | 1 | 30.15 | 1.187 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D30,50R | 1 | 30.5 | 1.201 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D31,00R | 1 | 31 | 1.221 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D31,50R | 1 | 31.5 | 1.240 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D31,75R | 1 | 31.75 | 1.250 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D31,99R | 1 | 31.99 | 1.259 | K | 6 | 0.236 | 8 | 0.315 | ● | | | ● | | | ● |
| | P6003-D32,00R | 1 | 32 | 1.260 | M | 6 | 0.236 | 8.3 | 0.327 | ● | | | ● | | | ● |
| | P6003-D32,10R | 1 | 32.1 | 1.264 | M | 6 | 0.236 | 8.3 | 0.327 | ● | | | ● | | | ● |
| | P6003-D33,00R | 1 | 33 | 1.299 | M | 6 | 0.236 | 8.3 | 0.327 | ● | | | ● | | | ● |
| | P6003-D34,00R | 1 | 34 | 1.339 | N | 6 | 0.236 | 8.6 | 0.339 | ● | | | ● | | | ● |
| | P6003-D35,00R | 1 | 35 | 1.378 | N | 6 | 0.236 | 8.6 | 0.339 | ● | | | ● | | | ● |
| | P6003-D36,00R | 1 | 36 | 1.417 | P | 6 | 0.236 | 8.9 | 0.350 | ● | | | ● | | | ● |
| | P6003-D37,00R | 1 | 37 | 1.457 | P | 6 | 0.236 | 8.9 | 0.350 | ● | | | ● | | | ● |
| | P6003-D37,99R | 1 | 37.99 | 1.496 | P | 6 | 0.236 | 8.9 | 0.350 | ● | | | ● | | | ● |
|  | P6004-D12,00R | 1 | 12 | 0.472 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | | ● | |
| | P6004-D12,50R | 1 | 12.5 | 0.492 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | | ● | |
| | P6004-D13,00R | 1 | 13 | 0.512 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | | ● | |
| | P6004-D13,50R | 1 | 13.5 | 0.532 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | | ● | |
| | P6004-D14,00R | 1 | 14 | 0.551 | B | 3 | 0.118 | 4 | 0.158 | | | | | | ● | |
| | P6004-D14,50R | 1 | 14.5 | 0.571 | B | 3 | 0.118 | 4 | 0.158 | | | | | | ● | |
| | P6004-D14,80R | 1 | 14.8 | 0.583 | B | 3 | 0.118 | 4 | 0.158 | | | | | | ● | |
| | P6004-D15,00R | 1 | 15 | 0.591 | B | 3 | 0.118 | 4 | 0.158 | | | | | | ● | |
| | P6004-D15,50R | 1 | 15.5 | 0.610 | B | 3 | 0.118 | 4 | 0.158 | | | | | | ● | |
| | P6004-D16,00R | 1 | 16 | 0.630 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | | ● | |
| | P6004-D16,50R | 1 | 16.5 | 0.650 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | | ● | |
| | P6004-D16,66R | 1 | 16.66 | 0.656 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | | ● | |
| | P6004-D17,00R | 1 | 17 | 0.669 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | | ● | |
| | P6004-D17,50R | 1 | 17.5 | 0.689 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | | ● | |
| | P6004-D17,70R | 1 | 17.7 | 0.697 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | | ● | |
| | P6004-D18,00R | 1 | 18 | 0.709 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |
| | P6004-D18,50R | 1 | 18.5 | 0.728 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |
| | P6004-D18,65R | 1 | 18.65 | 0.734 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |
| | P6004-D19,00R | 1 | 19 | 0.748 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |
| | P6004-D19,50R | 1 | 19.5 | 0.768 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |
| | P6004-D19,70R | 1 | 19.7 | 0.776 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |

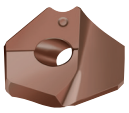
Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006



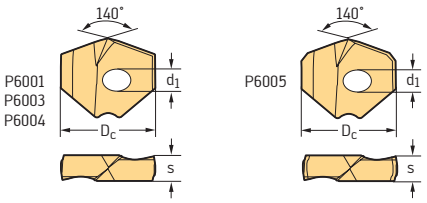

## Interchangeable inserts

| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6004-D19,84R | 1 | 19.84 | 0.781 | D | 4 | 0.158 | 5 | 0.197 | | | | | | ● | |
| | P6004-D20,00R | 1 | 20 | 0.787 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | | ● | |
| | P6004-D20,50R | 1 | 20.5 | 0.807 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | | ● | |
| | P6004-D21,00R | 1 | 21 | 0.827 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | | ● | |
| | P6004-D21,50R | 1 | 21.5 | 0.847 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | | ● | |
| | P6004-D21,70R | 1 | 21.7 | 0.854 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | | ● | |
| | P6004-D22,00R | 1 | 22 | 0.866 | F | 5 | 0.197 | 6 | 0.236 | | | | | | ● | |
| | P6004-D22,50R | 1 | 22.5 | 0.886 | F | 5 | 0.197 | 6 | 0.236 | | | | | | ● | |
| | P6004-D23,00R | 1 | 23 | 0.906 | F | 5 | 0.197 | 6 | 0.236 | | | | | | ● | |
| | P6004-D23,50R | 1 | 23.5 | 0.925 | F | 5 | 0.197 | 6 | 0.236 | | | | | | ● | |
| | P6004-D24,00R | 1 | 24 | 0.945 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | | ● | |
| | P6004-D24,50R | 1 | 24.5 | 0.965 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | | ● | |
| | P6004-D25,00R | 1 | 25 | 0.984 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | | ● | |
| | P6004-D25,50R | 1 | 25.5 | 1.004 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | | ● | |
| | P6004-D26,00R | 1 | 26 | 1.024 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | | ● | |
| | P6004-D26,50R | 1 | 26.5 | 1.043 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | | ● | |
| | P6004-D27,00R | 1 | 27 | 1.063 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | | ● | |
| | P6004-D27,50R | 1 | 27.5 | 1.083 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | | ● | |
| | P6004-D28,00R | 1 | 28 | 1.102 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | | ● | |
| | P6004-D28,50R | 1 | 28.5 | 1.122 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | | ● | |
| | P6004-D29,00R | 1 | 29 | 1.142 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | | ● | |
| | P6004-D29,50R | 1 | 29.5 | 1.161 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | | ● | |
| | P6004-D30,00R | 1 | 30 | 1.181 | K | 6 | 0.236 | 8 | 0.315 | | | | | | ● | |
| | P6004-D30,50R | 1 | 30.5 | 1.201 | K | 6 | 0.236 | 8 | 0.315 | | | | | | ● | |
| | P6004-D31,00R | 1 | 31 | 1.221 | K | 6 | 0.236 | 8 | 0.315 | | | | | | ● | |
| | P6004-D31,50R | 1 | 31.5 | 1.240 | K | 6 | 0.236 | 8 | 0.315 | | | | | | ● | |
|  | P6005-D12,00R | 1 | 12 | 0.472 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,10R | 1 | 12.1 | 0.476 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,20R | 1 | 12.2 | 0.480 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,30R | 1 | 12.3 | 0.484 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,40R | 1 | 12.4 | 0.488 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,50R | 1 | 12.5 | 0.492 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,60R | 1 | 12.6 | 0.496 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,70R | 1 | 12.7 | 0.500 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,80R | 1 | 12.8 | 0.504 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,90R | 1 | 12.9 | 0.508 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D12,95R | 1 | 12.95 | 0.510 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,00R | 1 | 13 | 0.512 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,10R | 1 | 13.1 | 0.516 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,20R | 1 | 13.2 | 0.520 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,25R | 1 | 13.25 | 0.522 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,30R | 1 | 13.3 | 0.524 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,40R | 1 | 13.4 | 0.528 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

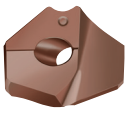
HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

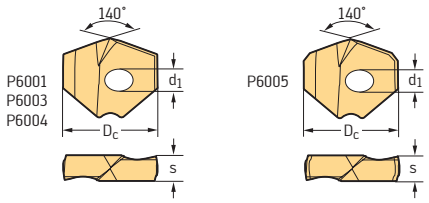


| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6005-D13,49R | 1 | 13.49 | 0.531 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,50R | 1 | 13.5 | 0.532 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,60R | 1 | 13.6 | 0.535 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,70R | 1 | 13.7 | 0.539 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,80R | 1 | 13.8 | 0.543 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D13,90R | 1 | 13.9 | 0.547 | A | 3 | 0.118 | 3.6 | 0.142 | | | | | ● | | |
| | P6005-D14,00R | 1 | 14 | 0.551 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,10R | 1 | 14.1 | 0.555 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,20R | 1 | 14.2 | 0.559 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,29R | 1 | 14.29 | 0.563 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,30R | 1 | 14.3 | 0.563 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,40R | 1 | 14.4 | 0.567 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,50R | 1 | 14.5 | 0.571 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,60R | 1 | 14.6 | 0.575 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,68R | 1 | 14.68 | 0.578 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,70R | 1 | 14.7 | 0.579 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,80R | 1 | 14.8 | 0.583 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D14,90R | 1 | 14.9 | 0.587 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,00R | 1 | 15 | 0.591 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,08R | 1 | 15.08 | 0.594 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,09R | 1 | 15.09 | 0.594 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,10R | 1 | 15.1 | 0.595 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,20R | 1 | 15.2 | 0.598 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,30R | 1 | 15.3 | 0.602 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,40R | 1 | 15.4 | 0.606 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,50R | 1 | 15.5 | 0.610 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,60R | 1 | 15.6 | 0.614 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,70R | 1 | 15.7 | 0.618 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,80R | 1 | 15.8 | 0.622 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,88R | 1 | 15.88 | 0.625 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D15,90R | 1 | 15.9 | 0.626 | B | 3 | 0.118 | 4 | 0.158 | | | | | ● | | |
| | P6005-D16,00R | 1 | 16 | 0.630 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,13R | 1 | 16.13 | 0.635 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,26R | 1 | 16.26 | 0.640 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,27R | 1 | 16.27 | 0.641 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,43R | 1 | 16.43 | 0.647 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,50R | 1 | 16.5 | 0.650 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,66R | 1 | 16.66 | 0.656 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,67R | 1 | 16.67 | 0.656 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,70R | 1 | 16.7 | 0.658 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D16,80R | 1 | 16.8 | 0.661 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D17,00R | 1 | 17 | 0.669 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| | P6005-D17,07R | 1 | 17.07 | 0.672 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |

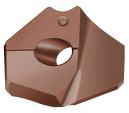
Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

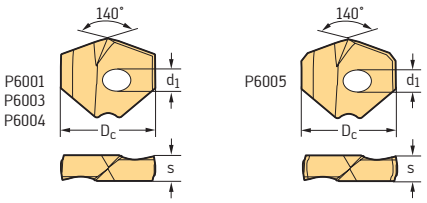


| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P6005-D17,20R | 1 | 17.2 | 0.677 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| P6005-D17,45R | 1 | 17.45 | 0.687 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| P6005-D17,50R | 1 | 17.5 | 0.689 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| P6005-D17,70R | 1 | 17.7 | 0.697 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| P6005-D17,80R | 1 | 17.8 | 0.701 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| P6005-D17,86R | 1 | 17.86 | 0.703 | C | 4 | 0.158 | 4.5 | 0.177 | | | | | ● | | |
| P6005-D18,00R | 1 | 18 | 0.709 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D18,24R | 1 | 18.24 | 0.718 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D18,26R | 1 | 18.26 | 0.719 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D18,50R | 1 | 18.5 | 0.728 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D18,65R | 1 | 18.65 | 0.734 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D18,70R | 1 | 18.7 | 0.736 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D18,80R | 1 | 18.8 | 0.740 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,00R | 1 | 19 | 0.748 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,05R | 1 | 19.05 | 0.750 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,20R | 1 | 19.2 | 0.756 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,25R | 1 | 19.25 | 0.758 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,30R | 1 | 19.3 | 0.760 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,35R | 1 | 19.35 | 0.762 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,43R | 1 | 19.43 | 0.765 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,50R | 1 | 19.5 | 0.768 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,60R | 1 | 19.6 | 0.772 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,70R | 1 | 19.7 | 0.776 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,80R | 1 | 19.8 | 0.780 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D19,84R | 1 | 19.84 | 0.781 | D | 4 | 0.158 | 5 | 0.197 | | | | | ● | | |
| P6005-D20,00R | 1 | 20 | 0.787 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D20,20R | 1 | 20.2 | 0.795 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D20,24R | 1 | 20.24 | 0.797 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D20,50R | 1 | 20.5 | 0.807 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D20,62R | 1 | 20.62 | 0.812 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D20,70R | 1 | 20.7 | 0.815 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D21,00R | 1 | 21 | 0.827 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D21,12R | 1 | 21.12 | 0.832 | E | 5 | 0.197 | | | | | | | ● | | |
| P6005-D21,41R | 1 | 21.41 | 0.843 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D21,43R | 1 | 21.43 | 0.844 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D21,50R | 1 | 21.5 | 0.847 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D21,70R | 1 | 21.7 | 0.854 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D21,83R | 1 | 21.83 | 0.859 | E | 5 | 0.197 | 5.5 | 0.217 | | | | | ● | | |
| P6005-D22,00R | 1 | 22 | 0.866 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| P6005-D22,22R | 1 | 22.22 | 0.875 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| P6005-D22,23R | 1 | 22.23 | 0.875 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| P6005-D22,42R | 1 | 22.42 | 0.883 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| P6005-D22,50R | 1 | 22.5 | 0.886 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

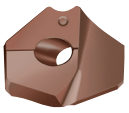
HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

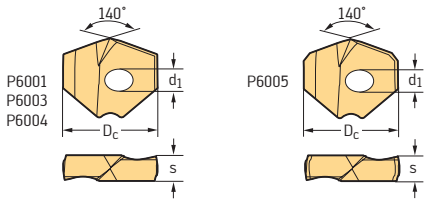
B1

| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6005-D22,70R | 1 | 22.7 | 0.894 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D22,77R | 1 | 22.77 | 0.897 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,00R | 1 | 23 | 0.906 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,02R | 1 | 23.02 | 0.906 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,39R | 1 | 23.39 | 0.921 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,50R | 1 | 23.5 | 0.925 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,70R | 1 | 23.7 | 0.933 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,80R | 1 | 23.8 | 0.937 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D23,81R | 1 | 23.81 | 0.937 | F | 5 | 0.197 | 6 | 0.236 | | | | | ● | | |
| | P6005-D24,00R | 1 | 24 | 0.945 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D24,21R | 1 | 24.21 | 0.953 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D24,50R | 1 | 24.5 | 0.965 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D24,59R | 1 | 24.59 | 0.968 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D24,61R | 1 | 24.61 | 0.969 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D24,70R | 1 | 24.7 | 0.972 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D25,00R | 1 | 25 | 0.984 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D25,25R | 1 | 25.25 | 0.994 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D25,40R | 1 | 25.4 | 1.000 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D25,50R | 1 | 25.5 | 1.004 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D25,70R | 1 | 25.7 | 1.012 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D25,80R | 1 | 25.8 | 1.016 | G | 5 | 0.197 | 6.5 | 0.256 | | | | | ● | | |
| | P6005-D26,00R | 1 | 26 | 1.024 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D26,25R | 1 | 26.25 | 1.034 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D26,50R | 1 | 26.5 | 1.043 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D26,59R | 1 | 26.59 | 1.047 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D27,00R | 1 | 27 | 1.063 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D27,50R | 1 | 27.5 | 1.083 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D27,78R | 1 | 27.78 | 1.094 | H | 6 | 0.236 | 7.1 | 0.280 | | | | | ● | | |
| | P6005-D28,00R | 1 | 28 | 1.102 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D28,17R | 1 | 28.17 | 1.109 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D28,50R | 1 | 28.5 | 1.122 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D28,57R | 1 | 28.57 | 1.125 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D29,00R | 1 | 29 | 1.142 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D29,50R | 1 | 29.5 | 1.161 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D29,77R | 1 | 29.77 | 1.172 | J | 6 | 0.236 | 7.7 | 0.303 | | | | | ● | | |
| | P6005-D30,00R | 1 | 30 | 1.181 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D30,15R | 1 | 30.15 | 1.187 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D30,50R | 1 | 30.5 | 1.201 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D31,00R | 1 | 31 | 1.221 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D31,50R | 1 | 31.5 | 1.240 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D31,75R | 1 | 31.75 | 1.250 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D31,99R | 1 | 31.99 | 1.259 | K | 6 | 0.236 | 8 | 0.315 | | | | | ● | | |
| | P6005-D32,00R | 1 | 32 | 1.260 | M | 6 | 0.236 | 8.3 | 0.327 | | | | | ● | | |

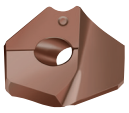
Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006



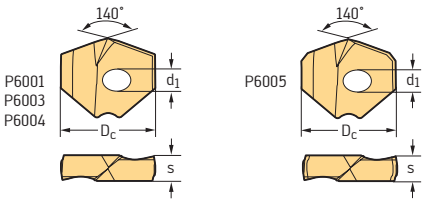

## Interchangeable inserts

| | Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P6005-D32,10R | 1 | 32.1 | 1.264 | M | 6 | 0.236 | 8.3 | 0.327 | | | | | ● | | |
| | P6005-D33,00R | 1 | 33 | 1.299 | M | 6 | 0.236 | 8.3 | 0.327 | | | | | ● | | |
| | P6005-D34,00R | 1 | 34 | 1.339 | N | 6 | 0.236 | 8.6 | 0.339 | | | | | ● | | |
| | P6005-D35,00R | 1 | 35 | 1.378 | N | 6 | 0.236 | 8.6 | 0.339 | | | | | ● | | |
| | P6005-D36,00R | 1 | 36 | 1.417 | P | 6 | 0.236 | 8.9 | 0.350 | | | | | ● | | |
| | P6005-D37,00R | 1 | 37 | 1.457 | P | 6 | 0.236 | 8.9 | 0.350 | | | | | ● | | |
| | P6005-D37,99R | 1 | 37.99 | 1.496 | P | 6 | 0.236 | 8.9 | 0.350 | | | | | ● | | |
|  | P6006-D12,00R | 1 | 12 | 0.472 | A | 3 | 0.118 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,10R | 1 | 12.1 | 0.476 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,20R | 1 | 12.2 | 0.480 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,30R | 1 | 12.3 | 0.484 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,40R | 1 | 12.4 | 0.488 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,50R | 1 | 12.5 | 0.492 | A | 3 | 0.118 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,60R | 1 | 12.6 | 0.496 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,70R | 1 | 12.7 | 0.500 | A | 3 | 0.118 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,80R | 1 | 12.8 | 0.504 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,90R | 1 | 12.9 | 0.508 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D12,95R | 1 | 12.95 | 0.510 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,00R | 1 | 13 | 0.512 | A | 3 | 0.118 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,11R | 1 | 13.11 | 0.516 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,20R | 1 | 13.2 | 0.520 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,25R | 1 | 13.25 | 0.522 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,30R | 1 | 13.3 | 0.524 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,35R | 1 | 13.35 | 0.526 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,40R | 1 | 13.4 | 0.528 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,45R | 1 | 13.45 | 0.530 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,50R | 1 | 13.5 | 0.532 | A | 3 | 0.118 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,60R | 1 | 13.6 | 0.535 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,70R | 1 | 13.7 | 0.539 | A | 3 | 0.118 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,80R | 1 | 13.8 | 0.543 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D13,89R | 1 | 13.89 | 0.547 | A | 3.4 | 0.134 | 3.6 | 0.142 | | ● | | | | | |
| | P6006-D14,00R | 1 | 14 | 0.551 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,10R | 1 | 14.1 | 0.555 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,20R | 1 | 14.2 | 0.559 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,30R | 1 | 14.3 | 0.563 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,40R | 1 | 14.4 | 0.567 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,50R | 1 | 14.5 | 0.571 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,60R | 1 | 14.6 | 0.575 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,68R | 1 | 14.68 | 0.578 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,80R | 1 | 14.8 | 0.583 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| | P6006-D14,90R | 1 | 14.9 | 0.587 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| | P6006-D15,00R | 1 | 15 | 0.591 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| | P6006-D15,09R | 1 | 15.09 | 0.594 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

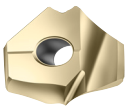
HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

B1

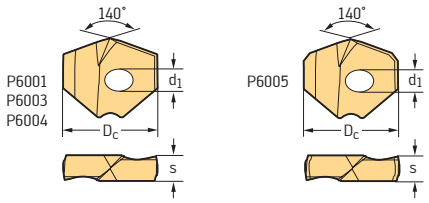


| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC | | | M HC | K HC | N HC | S HC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | WMP35 | WPP25 | WPP45C | WMP35 | WKK45C | WNN25 | WMP35 |
| P6006-D15,20R | 1 | 15.2 | 0.598 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,30R | 1 | 15.3 | 0.602 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,35R | 1 | 15.35 | 0.604 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,40R | 1 | 15.4 | 0.606 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,47R | 1 | 15.47 | 0.609 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,50R | 1 | 15.5 | 0.610 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,60R | 1 | 15.6 | 0.614 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,70R | 1 | 15.7 | 0.618 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,80R | 1 | 15.8 | 0.622 | B | 3.4 | 0.134 | 4 | 0.158 | | ● | | | | | |
| P6006-D15,87R | 1 | 15.87 | 0.625 | B | 3 | 0.118 | 4 | 0.158 | | ● | | | | | |
| P6006-D16,00R | 1 | 16 | 0.630 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,13R | 1 | 16.13 | 0.635 | C | 4.4 | 0.173 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,26R | 1 | 16.26 | 0.640 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,43R | 1 | 16.43 | 0.647 | C | 4.4 | 0.173 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,50R | 1 | 16.5 | 0.650 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,66R | 1 | 16.66 | 0.656 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,70R | 1 | 16.7 | 0.658 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D16,85R | 1 | 16.85 | 0.663 | C | 4.4 | 0.173 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,00R | 1 | 17 | 0.669 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,07R | 1 | 17.07 | 0.672 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,20R | 1 | 17.2 | 0.677 | C | 4.4 | 0.173 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,35R | 1 | 17.35 | 0.683 | C | 4.4 | 0.173 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,45R | 1 | 17.45 | 0.687 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,50R | 1 | 17.5 | 0.689 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,60R | 1 | 17.6 | 0.693 | C | 4.4 | 0.173 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,70R | 1 | 17.7 | 0.697 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D17,86R | 1 | 17.86 | 0.703 | C | 4 | 0.158 | 4.5 | 0.177 | | ● | | | | | |
| P6006-D18,00R | 1 | 18 | 0.709 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D18,24R | 1 | 18.24 | 0.718 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D18,50R | 1 | 18.5 | 0.728 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D18,65R | 1 | 18.65 | 0.734 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D18,70R | 1 | 18.7 | 0.736 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D18,80R | 1 | 18.8 | 0.740 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,00R | 1 | 19 | 0.748 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,05R | 1 | 19.05 | 0.750 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,10R | 1 | 19.1 | 0.752 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,20R | 1 | 19.2 | 0.756 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,25R | 1 | 19.25 | 0.758 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,30R | 1 | 19.3 | 0.760 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,35R | 1 | 19.35 | 0.762 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,43R | 1 | 19.43 | 0.765 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,50R | 1 | 19.5 | 0.768 | D | 4 | 0.158 | 5 | 0.197 | | ● | | | | | |
| P6006-D19,60R | 1 | 19.6 | 0.772 | D | 4.4 | 0.173 | 5 | 0.197 | | ● | | | | | |

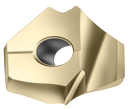
Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

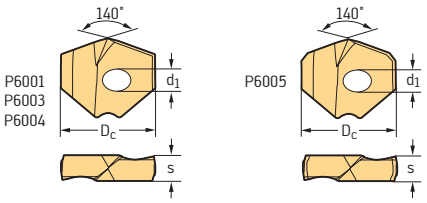


| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P6006-D19,70R | 1 | 19.7 | 0.776 | D | 4 | 0.158 | 5 | 0.197 | | ☺ | | | | | |
| P6006-D19,84R | 1 | 19.84 | 0.781 | D | 4 | 0.158 | 5 | 0.197 | | ☺ | | | | | |
| P6006-D20,00R | 1 | 20 | 0.787 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D20,20R | 1 | 20.2 | 0.795 | E | 5.4 | 0.213 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D20,24R | 1 | 20.24 | 0.797 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D20,50R | 1 | 20.5 | 0.807 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D20,62R | 1 | 20.62 | 0.812 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D20,70R | 1 | 20.7 | 0.815 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D20,85R | 1 | 20.85 | 0.821 | E | 5.4 | 0.213 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D21,00R | 1 | 21 | 0.827 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D21,41R | 1 | 21.41 | 0.843 | E | 5.4 | 0.213 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D21,50R | 1 | 21.5 | 0.847 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D21,70R | 1 | 21.7 | 0.854 | E | 5 | 0.197 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D21,83R | 1 | 21.83 | 0.859 | E | 5.4 | 0.213 | 5.5 | 0.217 | | ☺ | | | | | |
| P6006-D22,00R | 1 | 22 | 0.866 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,22R | 1 | 22.22 | 0.875 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,42R | 1 | 22.42 | 0.883 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,47R | 1 | 22.47 | 0.885 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,50R | 1 | 22.5 | 0.886 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,60R | 1 | 22.6 | 0.89 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,62R | 1 | 22.62 | 0.891 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,70R | 1 | 22.7 | 0.894 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D22,77R | 1 | 22.77 | 0.897 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D23,00R | 1 | 23 | 0.906 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D23,10R | 1 | 23.1 | 0.909 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D23,39R | 1 | 23.39 | 0.921 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D23,50R | 1 | 23.5 | 0.925 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D23,70R | 1 | 23.7 | 0.933 | F | 5.4 | 0.213 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D23,80R | 1 | 23.8 | 0.937 | F | 5 | 0.197 | 6 | 0.236 | | ☺ | | | | | |
| P6006-D24,00R | 1 | 24 | 0.945 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D24,21R | 1 | 24.21 | 0.953 | G | 5.4 | 0.213 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D24,50R | 1 | 24.5 | 0.965 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D24,59R | 1 | 24.59 | 0.968 | G | 5.4 | 0.213 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D24,70R | 1 | 24.7 | 0.972 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,00R | 1 | 25 | 0.984 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,25R | 1 | 25.25 | 0.994 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,40R | 1 | 25.4 | 1.000 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,50R | 1 | 25.5 | 1.004 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,60R | 1 | 25.6 | 1.008 | G | 5.4 | 0.213 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,65R | 1 | 25.65 | 1.010 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,70R | 1 | 25.7 | 1.012 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D25,80R | 1 | 25.8 | 1.016 | G | 5 | 0.197 | 6.5 | 0.256 | | ☺ | | | | | |
| P6006-D26,00R | 1 | 26 | 1.024 | H | 6 | 0.236 | 7.1 | 0.280 | | ☺ | | | | | |

Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

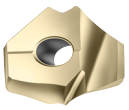
HC = Coated carbide

# Exchangeable tip
# P6001 / P6003 / P6004 / P6005 / P6006




## Interchangeable inserts

B1

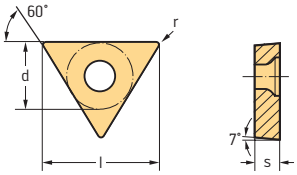


| Designation | Number of cutting edges | $D_c$ mm | $D_c$ in | Seat size | $d_1$ mm | $d_1$ in | s mm | s in | P HC | | | M HC | K HC | N HC | S HC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | WMP35 | WPP25 | WPP45C | WMP35 | WKK45C | WNN25 | WMP35 |
| P6006-D26,25R | 1 | 26.25 | 1.034 | H | 6 | 0.236 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D26,50R | 1 | 26.5 | 1.043 | H | 6 | 0.236 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D26,59R | 1 | 26.59 | 1.047 | H | 6.4 | 0.252 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D27,00R | 1 | 27 | 1.063 | H | 6 | 0.236 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D27,38R | 1 | 27.38 | 1.078 | H | 6.4 | 0.252 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D27,50R | 1 | 27.5 | 1.083 | H | 6 | 0.236 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D27,78R | 1 | 27.78 | 1.094 | H | 6.4 | 0.252 | 7.1 | 0.280 | | ☺ | | | | | |
| P6006-D28,00R | 1 | 28 | 1.102 | J | 6 | 0.236 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D28,17R | 1 | 28.17 | 1.109 | J | 6.4 | 0.252 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D28,35R | 1 | 28.35 | 1.116 | J | 6.4 | 0.252 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D28,50R | 1 | 28.5 | 1.122 | J | 6 | 0.236 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D28,57R | 1 | 28.57 | 1.125 | J | 6 | 0.236 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D29,00R | 1 | 29 | 1.142 | J | 6 | 0.236 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D29,10R | 1 | 29.1 | 1.146 | J | 6.4 | 0.252 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D29,37R | 1 | 29.37 | 1.156 | J | 6.4 | 0.252 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D29,50R | 1 | 29.5 | 1.161 | J | 6 | 0.236 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D29,77R | 1 | 29.77 | 1.172 | J | 6.4 | 0.252 | 7.7 | 0.303 | | ☺ | | | | | |
| P6006-D30,00R | 1 | 30 | 1.181 | K | 6 | 0.236 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D30,15R | 1 | 30.15 | 1.187 | K | 6.4 | 0.252 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D30,50R | 1 | 30.5 | 1.201 | K | 6 | 0.236 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D31,00R | 1 | 31 | 1.221 | K | 6 | 0.236 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D31,35R | 1 | 31.35 | 1.234 | K | 6.4 | 0.252 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D31,50R | 1 | 31.5 | 1.240 | K | 6 | 0.236 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D31,75R | 1 | 31.75 | 1.250 | K | 6 | 0.236 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D31,99R | 1 | 31.99 | 1.259 | K | 6 | 0.236 | 8 | 0.315 | | ☺ | | | | | |
| P6006-D32,00R | 1 | 32 | 1.260 | M | 6 | 0.236 | 8.3 | 0.327 | | ☺ | | | | | |
| P6006-D32,10R | 1 | 32.1 | 1.264 | M | 6.4 | 0.252 | 8.3 | 0.327 | | ☺ | | | | | |
| P6006-D33,00R | 1 | 33 | 1.299 | M | 6 | 0.236 | 8.3 | 0.327 | | ☺ | | | | | |
| P6006-D34,00R | 1 | 34 | 1.339 | N | 6 | 0.236 | 8.6 | 0.339 | | ☺ | | | | | |
| P6006-D34,10R | 1 | 34.1 | 1.343 | N | 6.4 | 0.252 | 8.6 | 0.339 | | ☺ | | | | | |
| P6006-D34,60R | 1 | 34.6 | 1.362 | N | 6.4 | 0.252 | 8.6 | 0.339 | | ☺ | | | | | |
| P6006-D35,00R | 1 | 35 | 1.378 | N | 6 | 0.236 | 8.6 | 0.339 | | ☺ | | | | | |
| P6006-D36,00R | 1 | 36 | 1.417 | P | 6 | 0.236 | 8.9 | 0.350 | | ☺ | | | | | |
| P6006-D37,00R | 1 | 37 | 1.457 | P | 6 | 0.236 | 8.9 | 0.350 | | ☺ | | | | | |
| P6006-D37,99R | 1 | 37.99 | 1.496 | P | 6 | 0.236 | 8.9 | 0.350 | | ☺ | | | | | |

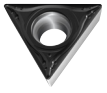
Ordering example: P60.. -D13.00R is available as
P6006 in grade WPP25 (ISO P, unalloyed steel): P6006-D13,00R WPP25
P6003 in grade WMP35 (ISO P, ISO M and ISO S): P6003-D13.00R WMP35 or as
P6001 in grade WPP45C (ISO P): P6001-D13.00R WPP45C
Ordering example for the grade WPP45C: P6001-D12,00R WPP45C

HC = Coated carbide

# Positive triangular 60°
# TCMT / TCMW
# Tiger·tec® Gold




## Indexable inserts

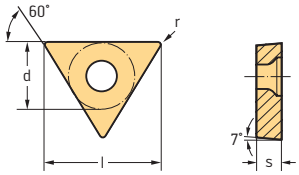
| | ANSI Designation | Designation | l mm | l in | r mm | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WPP30G | P HE WEP10C | M HC WMP20S | M HC WSM10S | M HC WSM20S | M HC WSM21 | M HC WSM30S | K HC WKK10S | K HC WKK20S | S HC WSM10S | S HC WSM20S | S HC WSM21 | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | TCMT2(1.5)1-FK6 | TCMT110204-FK6 | 11 | 0.433 | 0.4 | 0.016 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT2(1.5)2-FK6 | TCMT110208-FK6 | 11 | 0.433 | 0.8 | 0.032 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT3(2.5)1-FK6 | TCMT16T304-FK6 | 16.5 | 0.650 | 0.4 | 0.016 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT3(2.5)2-FK6 | TCMT16T308-FK6 | 16.5 | 0.650 | 0.8 | 0.032 | | | | | | | | | | | ☺ | 😐 | | | | |
|  | TCMT1.2(1.2)0.5-FM4 | TCMT06T102-FM4 | 6.87 | 0.271 | 0.2 | 0.008 | | | | | | | | | 😐 | | | | | | 😐 | |
| | TCMT1.2(1.2)01-FM4 | TCMT06T104-FM4 | 6.87 | 0.271 | 0.4 | 0.016 | | | | | | | | | 😐 | | | | | | 😐 | |
| | TCMT1.8(1.5)0.5-FM4 | TCMT090202-FM4 | 9.62 | 0.379 | 0.2 | 0.008 | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 | | |
| | TCMT1.8(1.5)1-FM4 | TCMT090204-FM4 | 9.62 | 0.379 | 0.4 | 0.016 | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 | | |
| | TCMT1.8(1.5)2-FM4 | TCMT090208-FM4 | 9.62 | 0.379 | 0.8 | 0.032 | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 | | |
| | TCMT2(1.5)0.5-FM4 | TCMT110202-FM4 | 11 | 0.433 | 0.2 | 0.008 | | | | | | | ☺ | 😐 | | ☹ | | | ☺ | 😐 | | ☹ |
| | TCMT2(1.5)1-FM4 | TCMT110204-FM4 | 11 | 0.433 | 0.4 | 0.016 | 😐 | | | | | 😐 | ☺ | 😐 | | ☹ | | | ☺ | 😐 | | ☹ |
| | TCMT2(1.5)2-FM4 | TCMT110208-FM4 | 11 | 0.433 | 0.8 | 0.032 | | | | | | | ☺ | 😐 | | ☹ | | | ☺ | 😐 | | ☹ |
| | TCMT3(2.5)0.5-FM4 | TCMT16T302-FM4 | 16.5 | 0.650 | 0.2 | 0.008 | | | | | | | | 😐 | | | | | | 😐 | | |
| | TCMT3(2.5)1-FM4 | TCMT16T304-FM4 | 16.5 | 0.650 | 0.4 | 0.016 | 😐 | | | | | 😐 | ☺ | 😐 | | ☹ | | | ☺ | 😐 | | ☹ |
| | TCMT3(2.5)2-FM4 | TCMT16T308-FM4 | 16.5 | 0.650 | 0.8 | 0.032 | 😐 | | | | | 😐 | ☺ | 😐 | | ☹ | | | ☺ | 😐 | | ☹ |
|  | TCMT1.2(1.2)0.5-FP4 | TCMT06T102-FP4 | 6.87 | 0.271 | 0.2 | 0.008 | | | 😐 | | | | | | | | | | | | | |
| | TCMT1.2(1.2)01-FP4 | TCMT06T104-FP4 | 6.87 | 0.271 | 0.4 | 0.016 | | | 😐 | | ☺ | | | | | | | | | | | |
| | TCMT1.8(1.5)0.5-FP4 | TCMT090202-FP4 | 9.62 | 0.379 | 0.2 | 0.008 | | | 😐 | | | | | | | | | | | | | |
| | TCMT1.8(1.5)1-FP4 | TCMT090204-FP4 | 9.62 | 0.379 | 0.4 | 0.016 | | ☺ | 😐 | | ☺ | | | | | | | | | | | |
| | TCMT1.8(1.5)2-FP4 | TCMT090208-FP4 | 9.62 | 0.379 | 0.8 | 0.032 | | | 😐 | | | | | | | | | | | | | |
| | TCMT2(1.5)0.5-FP4 | TCMT110202-FP4 | 11 | 0.433 | 0.2 | 0.008 | | ☺ | 😐 | | | | | | | | | | | | | |
| | TCMT2(1.5)1-FP4 | TCMT110204-FP4 | 11 | 0.433 | 0.4 | 0.016 | | ☺ | 😐 | | ☺ | | | | | | | | | | | |
| | TCMT2(1.5)2-FP4 | TCMT110208-FP4 | 11 | 0.433 | 0.8 | 0.032 | | ☺ | 😐 | | | | | | | | | | | | | |
| | TCMT3(2.5)0.5-FP4 | TCMT16T302-FP4 | 16.5 | 0.650 | 0.2 | 0.008 | | | 😐 | | | | | | | | | | | | | |
| | TCMT3(2.5)1-FP4 | TCMT16T304-FP4 | 16.5 | 0.650 | 0.4 | 0.016 | | ☺ | 😐 | | | | | | | | | | | | | |
| | TCMT3(2.5)2-FP4 | TCMT16T308-FP4 | 16.5 | 0.650 | 0.8 | 0.032 | | ☺ | 😐 | | ☺ | | | | | | | | | | | |
|  | TCMT2(1.5)1-FP6 | TCMT110204-FP6 | 11 | 0.433 | 0.4 | 0.016 | | | 😐 | | | | | | | | | | | | | |
| | TCMT2(1.5)2-FP6 | TCMT110208-FP6 | 11 | 0.433 | 0.8 | 0.032 | | | 😐 | | | | | | | | | | | | | |
| | TCMT3(2.5)1-FP6 | TCMT16T304-FP6 | 16.5 | 0.650 | 0.4 | 0.016 | | | 😐 | | | | | | | | | | | | | |
| | TCMT3(2.5)2-FP6 | TCMT16T308-FP6 | 16.5 | 0.650 | 0.8 | 0.032 | | | 😐 | | | | | | | | | | | | | |
|  | TCMT1.8(1.5)1-MK4 | TCMT090204-MK4 | 9.62 | 0.379 | 0.4 | 0.016 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT1.8(1.5)2-MK4 | TCMT090208-MK4 | 9.62 | 0.379 | 0.8 | 0.032 | | | | | | | | | | | | 😐 | | | | |
| | TCMT2(1.5)1-MK4 | TCMT110204-MK4 | 11 | 0.433 | 0.4 | 0.016 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT2(1.5)2-MK4 | TCMT110208-MK4 | 11 | 0.433 | 0.8 | 0.032 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT3(2.5)1-MK4 | TCMT16T304-MK4 | 16.5 | 0.650 | 0.4 | 0.016 | | | | | | | | | | | ☺ | 😐 | | | | |
| | TCMT3(2.5)2-MK4 | TCMT16T308-MK4 | 16.5 | 0.650 | 0.8 | 0.032 | | | | | | | | | | | ☺ | 😐 | | | | |
|  | TCMT1.8(1.5)1-MM4 | TCMT090204-MM4 | 9.62 | 0.379 | 0.4 | 0.016 | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 | | |
| | TCMT1.8(1.5)2-MM4 | TCMT090208-MM4 | 9.62 | 0.379 | 0.8 | 0.032 | | | | | | | | 😐 | | | | | | 😐 | | |
| | TCMT2(1.5)1-MM4 | TCMT110204-MM4 | 11 | 0.433 | 0.4 | 0.016 | | | | | | | | 😐 | | | | | | 😐 | | |
| | TCMT2(1.5)2-MM4 | TCMT110208-MM4 | 11 | 0.433 | 0.8 | 0.032 | | | | | | | | 😐 | | | | | | 😐 | | |
| | TCMT3(2.5)1-MM4 | TCMT16T304-MM4 | 16.5 | 0.650 | 0.4 | 0.016 | 😐 | | | | | 😐 | ☺ | 😐 | | | | | ☺ | 😐 | | |
| | TCMT3(2.5)2-MM4 | TCMT16T308-MM4 | 16.5 | 0.650 | 0.8 | 0.032 | 😐 | | | | | 😐 | ☺ | 😐 | | | | | ☺ | 😐 | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK10S: TCMT110204-FK6 WKK10S

HC = Coated carbide
HE = Coated cermet

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Positive triangular 60°
# TCMT / TCMW
# Tiger·tec® Gold




## Indexable inserts

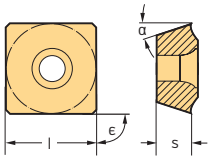
B1

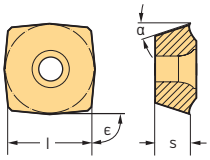
| | ANSI Designation | Designation | l mm | l in | r mm | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WPP30G | P HE WEP10C | M HC WMP20S | M HC WSM10S | M HC WSM20S | M HC WSM21 | M HC WSM30S | K HC WKK10S | K HC WKK20S | S HC WSM10S | S HC WSM20S | S HC WSM21 | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | TCMT1.8(1.5)1-MP4 | TCMT090204-MP4 | 9.62 | 0.379 | 0.4 | 0.016 | | | ● | | | | | | | | | | | | | |
| | TCMT1.8(1.5)2-MP4 | TCMT090208-MP4 | 9.62 | 0.379 | 0.8 | 0.032 | | | ● | | | | | | | | | | | | | |
| | TCMT2(1.5)1-MP4 | TCMT110204-MP4 | 11 | 0.433 | 0.4 | 0.016 | | ● | ● | | | | | | | | | | | | | |
| | TCMT2(1.5)2-MP4 | TCMT110208-MP4 | 11 | 0.433 | 0.8 | 0.032 | | ● | ● | | | | | | | | | | | | | |
| | TCMT3(2.5)1-MP4 | TCMT16T304-MP4 | 16.5 | 0.650 | 0.4 | 0.016 | | ● | ● | | | | | | | | | | | | | |
| | TCMT3(2.5)2-MP4 | TCMT16T308-MP4 | 16.5 | 0.650 | 0.8 | 0.032 | | ● | ● | | | | | | | | | | | | | |
| | TCMT432-MP4 | TCMT220408-MP4 | 22 | 0.866 | 0.8 | 0.032 | | | ● | | | | | | | | | | | | | |
|  | TCMT1.8(1.5)1-RK4 | TCMT090204-RK4 | 9.62 | 0.379 | 0.4 | 0.016 | | | | | | | | | | | ● | ● | | | | |
| | TCMT1.8(1.5)2-RK4 | TCMT090208-RK4 | 9.62 | 0.379 | 0.8 | 0.032 | | | | | | | | | | | ● | ● | | | | |
| | TCMT2(1.5)1-RK4 | TCMT110204-RK4 | 11 | 0.433 | 0.4 | 0.016 | | | | | | | | | | | ● | ● | | | | |
| | TCMT2(1.5)2-RK4 | TCMT110208-RK4 | 11 | 0.433 | 0.8 | 0.032 | | | | | | | | | | | ● | ● | | | | |
| | TCMT3(2.5)1-RK4 | TCMT16T304-RK4 | 16.5 | 0.650 | 0.4 | 0.016 | | | | | | | | | | | | ● | | | | |
| | TCMT3(2.5)2-RK4 | TCMT16T308-RK4 | 16.5 | 0.650 | 0.8 | 0.032 | | | | | | | | | | | ● | ● | | | | |
| | TCMT3(2.5)3-RK4 | TCMT16T312-RK4 | 16.5 | 0.650 | 1.2 | 0.047 | | | | | | | | | | | ● | ● | | | | |
|  | TCMT1.8(1.5)1-RM4 | TCMT090204-RM4 | 9.62 | 0.379 | 0.4 | 0.016 | | | | | | | | ● | | ● | | | | ● | | ● |
| | TCMT1.8(1.5)2-RM4 | TCMT090208-RM4 | 9.62 | 0.379 | 0.8 | 0.032 | | | | | | | | ● | | | | | | ● | | |
| | TCMT2(1.5)1-RM4 | TCMT110204-RM4 | 11 | 0.433 | 0.4 | 0.016 | ● | | | | | ● | ● | ● | | ● | | | ● | ● | | ● |
| | TCMT2(1.5)2-RM4 | TCMT110208-RM4 | 11 | 0.433 | 0.8 | 0.032 | ● | | | | | ● | | ● | | ● | | | | ● | | ● |
| | TCMT3(2.5)1-RM4 | TCMT16T304-RM4 | 16.5 | 0.650 | 0.4 | 0.016 | ● | | | | | ● | ● | ● | | ● | | | ● | ● | | ● |
| | TCMT3(2.5)2-RM4 | TCMT16T308-RM4 | 16.5 | 0.650 | 0.8 | 0.032 | ● | | | | | ● | ● | ● | | ● | | | ● | ● | | ● |
| | TCMT3(2.5)3-RM4 | TCMT16T312-RM4 | 16.5 | 0.650 | 1.2 | 0.047 | | | | | | | | ● | | ● | | | | ● | | ● |
|  | TCMT1.8(1.5)1-RP4 | TCMT090204-RP4 | 9.62 | 0.379 | 0.4 | 0.016 | | | ● | ● | | | | | | | | | | | | |
| | TCMT1.8(1.5)2-RP4 | TCMT090208-RP4 | 9.62 | 0.379 | 0.8 | 0.032 | | | ● | ● | | | | | | | | | | | | |
| | TCMT2(1.5)1-RP4 | TCMT110204-RP4 | 11 | 0.433 | 0.4 | 0.016 | | ● | ● | ● | | | | | | | | | | | | |
| | TCMT2(1.5)2-RP4 | TCMT110208-RP4 | 11 | 0.433 | 0.8 | 0.032 | | | ● | ● | | | | | | | | | | | | |
| | TCMT3(2.5)1-RP4 | TCMT16T304-RP4 | 16.5 | 0.650 | 0.4 | 0.016 | | ● | ● | ● | | | | | | | | | | | | |
| | TCMT3(2.5)2-RP4 | TCMT16T308-RP4 | 16.5 | 0.650 | 0.8 | 0.032 | | ● | ● | ● | | | | | | | | | | | | |
| | TCMT3(2.5)3-RP4 | TCMT16T312-RP4 | 16.5 | 0.650 | 1.2 | 0.047 | | ● | ● | ● | | | | | | | | | | | | |
|  | TCMW2(1.5)1-RK6 | TCMW110204-RK6 | 11 | 0.433 | 0.4 | 0.016 | | | | | | | | | | | ● | ● | | | | |
| | TCMW2(1.5)2-RK6 | TCMW110208-RK6 | 11 | 0.433 | 0.8 | 0.032 | | | | | | | | | | | ● | ● | | | | |
| | TCMW3(2.5)1-RK6 | TCMW16T304-RK6 | 16.5 | 0.650 | 0.4 | 0.016 | | | | | | | | | | | ● | ● | | | | |
| | TCMW3(2.5)2-RK6 | TCMW16T308-RK6 | 16.5 | 0.650 | 0.8 | 0.032 | | | | | | | | | | | ● | ● | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK10S: TCMT110204-FK6 WKK10S

HC = Coated carbide
HE = Coated cermet

# Square
# P284..
# Tiger·tec® Gold




## Indexable inserts

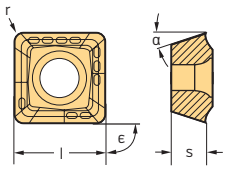
| | Designation | Number of cutting edges | l in | s in | α | ε | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P2840S-1N-A57 | 4 | 0.250 | 0.095 | 14° | 90° | 1 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2840S-2N-A57 | 4 | 0.307 | 0.126 | 14° | 90° | 2 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2840S-3N-A57 | 4 | 0.375 | 0.158 | 11° | 96° | 3 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2840S-4N-A57 | 4 | 0.433 | 0.158 | 11° | 96° | 4 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2840S-5N-A57 | 4 | 0.500 | 0.189 | 11° | 96° | 5 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2840S-6N-A57 | 4 | 0.591 | 0.189 | 11° | 96° | 6 | | ☹ | ☹ | | ☹ | | | ☹ | | | ☹ |
| | P2840S-7N-A57 | 4 | 0.693 | 0.221 | 11° | 96° | 7 | | ☹ | ☹ | | ☹ | | | ☹ | | | ☹ |
|  | P2840S-1N-E67 | 4 | 0.250 | 0.095 | 14° | 90° | 1 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2840S-2N-E67 | 4 | 0.307 | 0.126 | 14° | 90° | 2 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2840S-3N-E67 | 4 | 0.375 | 0.158 | 11° | 96° | 3 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2840S-4N-E67 | 4 | 0.433 | 0.158 | 11° | 96° | 4 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2840S-5N-E67 | 4 | 0.500 | 0.189 | 11° | 96° | 5 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2840S-6N-E67 | 4 | 0.591 | 0.189 | 11° | 96° | 6 | | ☹ | ☹ | | ☹ | | | ☹ | | | ☹ |
| | P2840S-7N-E67 | 4 | 0.693 | 0.221 | 11° | 96° | 7 | | ☹ | ☹ | | ☹ | | | ☹ | | | ☹ |
|  | P2840S-1N-E77 | 4 | 0.250 | 0.095 | 14° | 90° | 1 | | | | | | | | | ☺ | ☻ | |
| | P2840S-2N-E77 | 4 | 0.307 | 0.126 | 14° | 90° | 2 | | | | | | | | | ☺ | ☻ | |
| | P2840S-3N-E77 | 4 | 0.375 | 0.158 | 11° | 96° | 3 | | | | | | | | | ☺ | ☻ | |
| | P2840S-4N-E77 | 4 | 0.433 | 0.158 | 11° | 96° | 4 | | | | | | | | | | ☻ | |
| | P2840S-5N-E77 | 4 | 0.500 | 0.189 | 11° | 96° | 5 | | | | | | | | | | ☻ | |
| | P2840S-6N-E77 | 4 | 0.591 | 0.189 | 11° | 96° | 6 | | | | | | | | | ☺ | ☻ | |
| | P2840S-7N-E77 | 4 | 0.693 | 0.221 | 11° | 96° | 7 | | | | | | | | | ☺ | ☻ | |
|  | P2841S-1N-A57 | 4 | 0.250 | 0.095 | 14° | 90° | 1 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-2N-A57 | 4 | 0.307 | 0.126 | 14° | 90° | 2 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-3N-A57 | 4 | 0.375 | 0.158 | 11° | 96° | 3 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-4N-A57 | 4 | 0.433 | 0.158 | 11° | 96° | 4 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-5N-A57 | 4 | 0.500 | 0.189 | 11° | 96° | 5 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-6N-A57 | 4 | 0.591 | 0.189 | 11° | 96° | 6 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-7N-A57 | 4 | 0.693 | 0.221 | 11° | 96° | 7 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
|  | P2841S-1N-E57 | 4 | 0.250 | 0.095 | 14° | 90° | 1 | ☻ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-2N-E57 | 4 | 0.307 | 0.126 | 14° | 90° | 2 | ☻ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-3N-E57 | 4 | 0.375 | 0.158 | 11° | 96° | 3 | ☻ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-4N-E57 | 4 | 0.433 | 0.158 | 11° | 96° | 4 | ☻ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-5N-E57 | 4 | 0.500 | 0.189 | 11° | 96° | 5 | ☻ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ |
| | P2841S-6N-E57 | 4 | 0.591 | 0.189 | 11° | 96° | 6 | | ☺ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-7N-E57 | 4 | 0.693 | 0.221 | 11° | 96° | 7 | | ☺ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
|  | P2841S-1N-E67 | 4 | 0.250 | 0.095 | 14° | 90° | 1 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-2N-E67 | 4 | 0.307 | 0.126 | 14° | 90° | 2 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-3N-E67 | 4 | 0.375 | 0.158 | 11° | 96° | 3 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-4N-E67 | 4 | 0.433 | 0.158 | 11° | 96° | 4 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-5N-E67 | 4 | 0.500 | 0.189 | 11° | 96° | 5 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-6N-E67 | 4 | 0.591 | 0.189 | 11° | 96° | 6 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |
| | P2841S-7N-E67 | 4 | 0.693 | 0.221 | 11° | 96° | 7 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ |

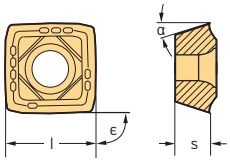
Ordering example for the grade WKP25S: P2840S-1N-A57 WKP25S

HC = Coated carbide
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Square
# P484 .
# Tiger·tec® Gold




## Indexable inserts

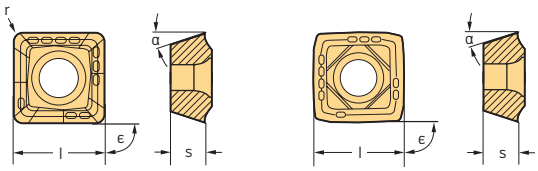
| | Designation | Number of cutting edges | l in | s in | r in | α | ε | Size | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-1R-E67 | 4 | 0.193 | 0.079 | 0.011 | 11° | 90° | 1 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-2R-E67 | 4 | 0.234 | 0.095 | 0.013 | 11° | 90° | 2 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-3R-E67 | 4 | 0.276 | 0.110 | 0.016 | 11° | 90° | 3 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-4R-E67 | 4 | 0.331 | 0.134 | 0.019 | 11° | 90° | 4 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-5R-E67 | 4 | 0.405 | 0.161 | 0.023 | 11° | 90° | 5 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-6R-E67 | 4 | 0.482 | 0.193 | 0.028 | 11° | 90° | 6 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-7R-E67 | 4 | 0.578 | 0.217 | 0.032 | 11° | 90° | 7 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4840C-8R-E67 | 4 | 0.689 | 0.221 | 0.039 | 11° | 90° | 8 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
|  | P4840C-1R-E77 | 4 | 0.193 | 0.079 | 0.011 | 11° | 90° | 1 | | | | | | | 😊 | 😊 | |
| | P4840C-2R-E77 | 4 | 0.234 | 0.095 | 0.013 | 11° | 90° | 2 | | | | | | | 😊 | 😊 | |
| | P4840C-3R-E77 | 4 | 0.276 | 0.110 | 0.016 | 11° | 90° | 3 | | | | | | | | 😊 | |
| | P4840C-4R-E77 | 4 | 0.331 | 0.134 | 0.019 | 11° | 90° | 4 | | | | | | | | 😊 | |
| | P4840C-5R-E77 | 4 | 0.405 | 0.161 | 0.023 | 11° | 90° | 5 | | | | | | | | 😊 | |
| | P4840C-6R-E77 | 4 | 0.482 | 0.193 | 0.028 | 11° | 90° | 6 | | | | | | | | 😊 | |
| | P4840C-7R-E77 | 4 | 0.578 | 0.217 | 0.032 | 11° | 90° | 7 | | | | | | | | 😊 | |
| | P4840C-8R-E77 | 4 | 0.689 | 0.221 | 0.039 | 11° | 90° | 8 | | | | | | | | 😊 | |
|  | P4841C-1R-A57 | 4 | 0.193 | 0.079 | 0.011 | 11° | 90° | 1 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-2R-A57 | 4 | 0.234 | 0.095 | 0.013 | 11° | 90° | 2 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-3R-A57 | 4 | 0.276 | 0.110 | 0.016 | 11° | 90° | 3 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-4R-A57 | 4 | 0.331 | 0.134 | 0.019 | 11° | 90° | 4 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-5R-A57 | 4 | 0.405 | 0.161 | 0.023 | 11° | 90° | 5 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-6R-A57 | 4 | 0.482 | 0.193 | 0.028 | 11° | 90° | 6 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-7R-A57 | 4 | 0.578 | 0.217 | 0.032 | 11° | 90° | 7 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-8R-A57 | 4 | 0.689 | 0.221 | 0.039 | 11° | 90° | 8 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
|  | P4841C-1R-E57 | 4 | 0.193 | 0.079 | 0.011 | 11° | 90° | 1 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-2R-E57 | 4 | 0.234 | 0.095 | 0.013 | 11° | 90° | 2 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-3R-E57 | 4 | 0.276 | 0.110 | 0.016 | 11° | 90° | 3 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-4R-E57 | 4 | 0.331 | 0.134 | 0.019 | 11° | 90° | 4 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-5R-E57 | 4 | 0.405 | 0.161 | 0.023 | 11° | 90° | 5 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-6R-E57 | 4 | 0.482 | 0.193 | 0.028 | 11° | 90° | 6 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-7R-E57 | 4 | 0.578 | 0.217 | 0.032 | 11° | 90° | 7 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |
| | P4841C-8R-E57 | 4 | 0.689 | 0.221 | 0.039 | 11° | 90° | 8 | 😐 | 😐 | 😐 | 😐 | 😐 | 😐 | | | 😐 |

Ordering example for the grade WKP35S: P4840C-1R-E67 WKP35S

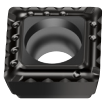
HC = Coated carbide
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# Square
# P484 .
# Tiger·tec® Gold




## Indexable inserts

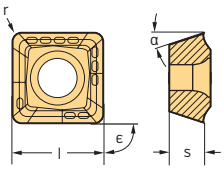
| | Designation | Number of cutting edges | l in | s in | r in | α | ε | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | M HC WSP45G | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840P-1R-A57 | 4 | 0.179 | 0.079 | 0.011 | 11° | 90° | 1 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-2R-A57 | 4 | 0.217 | 0.091 | 0.013 | 11° | 90° | 2 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-3R-A57 | 4 | 0.256 | 0.110 | 0.016 | 11° | 90° | 3 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-4R-A57 | 4 | 0.307 | 0.134 | 0.019 | 11° | 90° | 4 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-5R-A57 | 4 | 0.376 | 0.161 | 0.023 | 11° | 90° | 5 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-6R-A57 | 4 | 0.463 | 0.193 | 0.028 | 11° | 90° | 6 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-7R-A57 | 4 | 0.552 | 0.217 | 0.032 | 11° | 90° | 7 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-8R-A57 | 4 | 0.650 | 0.217 | 0.039 | 11° | 90° | 8 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
|  | P4840P-1R-E57 | 4 | 0.179 | 0.079 | 0.011 | 11° | 90° | 1 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-2R-E57 | 4 | 0.217 | 0.091 | 0.013 | 11° | 90° | 2 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-3R-E57 | 4 | 0.256 | 0.110 | 0.016 | 11° | 90° | 3 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-4R-E57 | 4 | 0.307 | 0.134 | 0.019 | 11° | 90° | 4 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-5R-E57 | 4 | 0.376 | 0.161 | 0.023 | 11° | 90° | 5 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-6R-E57 | 4 | 0.463 | 0.193 | 0.028 | 11° | 90° | 6 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-7R-E57 | 4 | 0.552 | 0.217 | 0.032 | 11° | 90° | 7 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-8R-E57 | 4 | 0.650 | 0.217 | 0.039 | 11° | 90° | 8 | 🙂 | 😐 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
|  | P4840P-1R-E67 | 4 | 0.179 | 0.079 | 0.011 | 11° | 90° | 1 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-2R-E67 | 4 | 0.217 | 0.091 | 0.013 | 11° | 90° | 2 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-3R-E67 | 4 | 0.256 | 0.110 | 0.016 | 11° | 90° | 3 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-4R-E67 | 4 | 0.307 | 0.134 | 0.019 | 11° | 90° | 4 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-5R-E67 | 4 | 0.376 | 0.161 | 0.023 | 11° | 90° | 5 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-6R-E67 | 4 | 0.463 | 0.193 | 0.028 | 11° | 90° | 6 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-7R-E67 | 4 | 0.552 | 0.217 | 0.032 | 11° | 90° | 7 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4840P-8R-E67 | 4 | 0.650 | 0.217 | 0.039 | 11° | 90° | 8 | 🙂 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
|  | P4840P-1R-E77 | 4 | 0.179 | 0.079 | 0.011 | 11° | 90° | 1 | | | | | | | 🙂 | 😐 | |
| | P4840P-2R-E77 | 4 | 0.217 | 0.091 | 0.013 | 11° | 90° | 2 | | | | | | | 🙂 | 😐 | |
| | P4840P-3R-E77 | 4 | 0.256 | 0.110 | 0.016 | 11° | 90° | 3 | | | | | | | 🙂 | 😐 | |
| | P4840P-4R-E77 | 4 | 0.307 | 0.134 | 0.019 | 11° | 90° | 4 | | | | | | | 🙂 | 😐 | |
| | P4840P-5R-E77 | 4 | 0.376 | 0.161 | 0.023 | 11° | 90° | 5 | | | | | | | 🙂 | 😐 | |
| | P4840P-6R-E77 | 4 | 0.463 | 0.193 | 0.028 | 11° | 90° | 6 | | | | | | | 🙂 | 😐 | |
| | P4840P-7R-E77 | 4 | 0.552 | 0.217 | 0.032 | 11° | 90° | 7 | | | | | | | 🙂 | 😐 | |
| | P4840P-8R-E77 | 4 | 0.650 | 0.217 | 0.039 | 11° | 90° | 8 | | | | | | | 🙂 | 😐 | |
|  | P4841P-1R-A57 | 4 | 0.179 | 0.079 | 0.011 | 11° | 90° | 1 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-2R-A57 | 4 | 0.217 | 0.091 | 0.013 | 11° | 90° | 2 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-3R-A57 | 4 | 0.256 | 0.110 | 0.016 | 11° | 90° | 3 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-4R-A57 | 4 | 0.307 | 0.134 | 0.019 | 11° | 90° | 4 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-5R-A57 | 4 | 0.376 | 0.161 | 0.023 | 11° | 90° | 5 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-6R-A57 | 4 | 0.463 | 0.193 | 0.028 | 11° | 90° | 6 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-7R-A57 | 4 | 0.552 | 0.217 | 0.032 | 11° | 90° | 7 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |
| | P4841P-8R-A57 | 4 | 0.650 | 0.217 | 0.039 | 11° | 90° | 8 | 😐 | 😟 | ☹ | ☹ | 😐 | 😟 | | | ☹ |

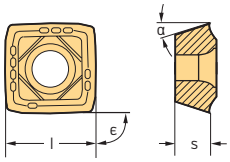
Ordering example for the grade WKP25S: P4840P-1R-A57 WKP25S

HC = Coated carbide
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = 🙂 → Average = 😐 → Poor = ☹ machining conditions

# Square
# P484 .
# Tiger·tec® Gold



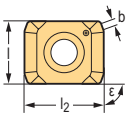

## Indexable inserts

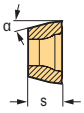
| | Designation | Number of cutting edges | l in | s in | r in | α | ε | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | M HC WSP45G | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4841P-1R-E57 | 4 | 0.179 | 0.079 | 0.011 | 11° | 90° | 1 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-2R-E57 | 4 | 0.217 | 0.091 | 0.013 | 11° | 90° | 2 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-3R-E57 | 4 | 0.256 | 0.110 | 0.016 | 11° | 90° | 3 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-4R-E57 | 4 | 0.307 | 0.134 | 0.019 | 11° | 90° | 4 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-5R-E57 | 4 | 0.376 | 0.161 | 0.023 | 11° | 90° | 5 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-6R-E57 | 4 | 0.463 | 0.193 | 0.028 | 11° | 90° | 6 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-7R-E57 | 4 | 0.552 | 0.217 | 0.032 | 11° | 90° | 7 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |
| | P4841P-8R-E57 | 4 | 0.650 | 0.217 | 0.039 | 11° | 90° | 8 | ☺ | 😐 | ☹ | ☹ | 😐 | ☹ | | | ☹ |

Ordering example for the grade WKP25S: P4840P-1R-A57 WKP25S

HC = Coated carbide
HW = Uncoated carbide

# Rectangular
# LCGX




## Indexable inserts

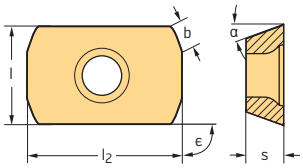
| | Designation | Number of cutting edges | l in | $l_2$ in | s in | α | ε | b in | N HC WNN15 | N HW WN15 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | LCGX050203-E77 | 2 | 0.158 | 0.205 | 0.095 | 7° | 90° | 0.024 | ☺ | ☹ |
| | LCGX06T204-E77 | 2 | 0.205 | 0.260 | 0.110 | 7° | 90° | 0.032 | ☺ | ☹ |

Ordering example for the grade WN15: LCGX050203-E77 WN15

HC = Coated carbide
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Rectangular
# LCMX
# Tiger·tec® Gold



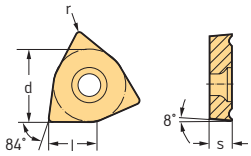

## Indexable inserts

| | Designation | Number of cutting edges | l in | $l_2$ in | s in | α | ε | b in | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | LCMX050203-B57 | 2 | 0.158 | 0.205 | 0.095 | 7° | 90° | 0.024 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | ☹ |
| | LCMX06T204-B57 | 2 | 0.205 | 0.260 | 0.110 | 7° | 90° | 0.032 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | ☹ |
|  | LCMX050203-D57 | 2 | 0.158 | 0.205 | 0.095 | 7° | 90° | 0.024 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | ☹ |
| | LCMX06T204-D57 | 2 | 0.205 | 0.260 | 0.110 | 7° | 90° | 0.032 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | ☹ |
|  | LCMX050203-E57 | 2 | 0.158 | 0.205 | 0.095 | 7° | 90° | 0.024 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | ☹ |
| | LCMX06T204-E57 | 2 | 0.205 | 0.260 | 0.110 | 7° | 90° | 0.032 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | ☹ |

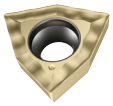
Ordering example for the grade WKP25S: LCMX050203-B57 WKP25S

HC = Coated carbide

# Trigon
# WOEX / WOMX
# Tiger·tec® Gold




## Indexable inserts

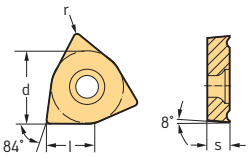
| | Designation | Number of cutting edges | l in | s in | r in | α | ε | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WAK15 | K HC WKP25S | K HC WKP35S | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | WOEX030204-E57 | 3 | 0.130 | 0.091 | 0.016 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | ☹ | ☹ |
| | WOEX040304-E57 | 3 | 0.165 | 0.126 | 0.016 | 8° | 84° | ☺ | 😐 | ☹ | | ☹ | | | 😐 | ☹ | ☹ |
| | WOEX05T304-E57 | 3 | 0.208 | 0.150 | 0.016 | 8° | 84° | ☺ | 😐 | ☹ | | ☹ | | | 😐 | ☹ | ☹ |
| | WOEX06T304-E57 | 3 | 0.261 | 0.150 | 0.016 | 8° | 84° | ☺ | 😐 | ☹ | | ☹ | | ☺ | 😐 | ☹ | ☹ |
| | WOEX080408-E57 | 3 | 0.313 | 0.189 | 0.032 | 8° | 84° | ☺ | 😐 | ☹ | | ☹ | | | 😐 | ☹ | ☹ |
| | WOEX100508-E57 | 3 | 0.391 | 0.209 | 0.032 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | ☹ | ☹ |
| | WOEX120608-E57 | 3 | 0.458 | 0.236 | 0.032 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | ☹ | ☹ |
|  | WOMX030204-B57 | 3 | 0.130 | 0.091 | 0.016 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |
| | WOMX040304-B57 | 3 | 0.165 | 0.126 | 0.016 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |
| | WOMX05T304-B57 | 3 | 0.208 | 0.150 | 0.016 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |
| | WOMX06T304-B57 | 3 | 0.261 | 0.150 | 0.016 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |
| | WOMX080408-B57 | 3 | 0.313 | 0.189 | 0.032 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |
| | WOMX100508-B57 | 3 | 0.391 | 0.209 | 0.032 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |
| | WOMX120608-B57 | 3 | 0.458 | 0.236 | 0.032 | 8° | 84° | | 😐 | ☹ | | ☹ | | | | 😐 | ☹ |

Ordering example for the grade WKP35S: WOEX030204-E57 WKP35S

HC = Coated carbide

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Trigon
# WOEX / WOMX
# Tiger·tec® Gold




## Indexable inserts

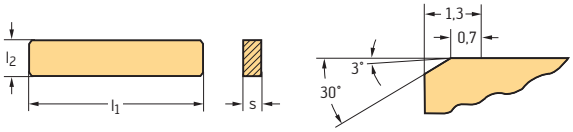
B1

| | Designation | Number of cutting edges | l in | s in | r in | α | ε | P | | | | M | | K | | | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | HC | | | | HC | | HC | | HC |
| | | | | | | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WAK15 | WKP25S | WKP35S | WSP45G |
|  | WOMX030204-D57 | 3 | 0.130 | 0.091 | 0.016 | 8° | 84° | | ☺ | ☹ | ☹ | ☹ | ☹ | | | ☹ | ☹ |
| | WOMX040304-D57 | 3 | 0.165 | 0.126 | 0.016 | 8° | 84° | | ☺ | ☹ | ☹ | ☹ | ☹ | | | ☹ | ☹ |
| | WOMX05T304-D57 | 3 | 0.208 | 0.150 | 0.016 | 8° | 84° | | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | | ☹ | ☹ |
| | WOMX06T304-D57 | 3 | 0.261 | 0.150 | 0.016 | 8° | 84° | ☺ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☺ | ☹ | ☹ |
| | WOMX080408-D57 | 3 | 0.313 | 0.189 | 0.032 | 8° | 84° | ☺ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☺ | ☹ | ☹ |
| | WOMX100508-D57 | 3 | 0.391 | 0.209 | 0.032 | 8° | 84° | ☺ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☺ | ☹ | ☹ |
| | WOMX120608-D57 | 3 | 0.458 | 0.236 | 0.032 | 8° | 84° | ☺ | ☺ | ☹ | ☹ | ☹ | ☹ | ☺ | ☺ | ☹ | ☹ |

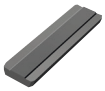
Ordering example for the grade WKP35S: WOEX030204-E57 WKP35S

HC = Coated carbide

# Positive basic shape
# P6500




## Indexable inserts

| | Designation | Number of cutting edges | $l_1$ in | $l_2$ in | s in | Chamfer | P HC WXP15 | K HC WXK05 |
|---|---|---|---|---|---|---|---|---|
|  | P6500-1R-A88-E1 | 2 | 0.787 | 0.118 | 0.059 | E1 | ☺ | |
| | P6500-2R-A88-E1 | 2 | 0.787 | 0.177 | 0.177 | E1 | ☺ | |
| | P6500-4R-A88-E1 | 2 | 2.756 | 0.276 | 0.091 | E1 | ☺ | |
|  | P6500-0R-B88-E1 | 2 | 0.787 | 0.098 | 0.047 | E1 | ☺ | |
| | P6500-1R-B88-E1 | 2 | 0.787 | 0.118 | 0.059 | E1 | ☺ | ☺ |
| | P6500-2R-B88-E1 | 2 | 0.787 | 0.177 | 0.177 | E1 | ☺ | ☺ |
| | P6500-4R-B88-E1 | 2 | 2.756 | 0.276 | 0.091 | E1 | ☺ | ☺ |
|  | P6500-1R-B88-E5 | 2 | 0.787 | 0.118 | 0.059 | E5 | | ☺ |
| | P6500-2R-B88-E5 | 2 | 0.787 | 0.177 | 0.177 | E5 | | ☺ |
| | P6500-4R-B88-E5 | 2 | 2.756 | 0.276 | 0.091 | E5 | | ☺ |

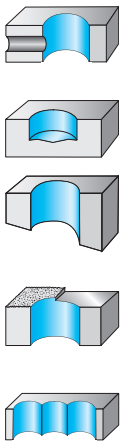
HC = beschichtetes Hartmetall

B1

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Indexable insert drills

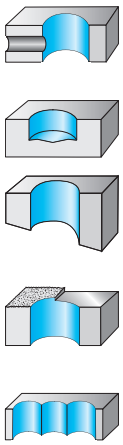


| | | | | | |
|---|---|---|---|---|---|
| **Machining** |  | | | | |
| **Drilling depth** | **3 x $D_C$** | **2 x $D_C$** | **3 x $D_C$** | **4 x $D_C$** | **5 x $D_C$** |
| |  |  |  |  |  |
| **Designation** | D4170 | D4120 | D4120 | D4120 | D4120 |
| **Effective cutting edges** | 1 | 1 | 1 | 1 | 1 |
| **Diameter range** | | | | | |
| **[mm]** | 65–80 | 13.5–59 | 13.5–59 | 17–59 | 17–59 |
| **[inch]** | | 0.531–2.250 | 0.531–2.250 | 0.656–2.250 | 0.656–2.250 |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● | ● | |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** Non-ferrous metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● | ● | |
| **H** Hard materials | | | | | |
| **O** Other | | | | | |
| **Indexable insert types** | | |  P484 .C<br>  P484 .P | | |
| **Number of cutting edges** | 4 | 4 | 4 | 4 | 4 |
| **Page in catalogue** | B 216 | B 220 | B 224 | B 228 | B 232 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | D4170 | D4120 | D4120 | D4120 | D4120 |

**WALTER SELECT** ●● Primary application ● Other application

# Indexable insert drills



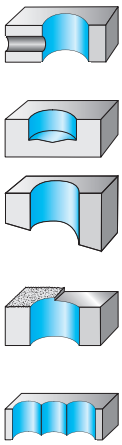
| | | | | | |
|---|---|---|---|---|---|
| **Machining** |  | | | | |
| **Drilling depth** | 2 x $D_C$ | 3 x $D_C$ | 4 x $D_C$ | 2 x $D_C$ | 2 x $D_C$ |
| |  |  |  |  |  |
| **Designation** | D3120 | D3120 | D3120 | B3212 | B3212 |
| **Effective cutting edges** | 1 | 1 | 1 | 1 | 1 |
| **Diameter range** | | | | | |
| **[mm]** | 16–42 | 16–58 | 16–42 | 10–18 | |
| **[inch]** | | 0.750–1.500 | 0.750–1.500 | | 0.391–0.625 |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ● | ●● | ●● |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** Non-ferrous metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ● | ●● | ●● |
| **H** Hard materials | | | | | |
| **O** Other | | | | | |
| **Indexable insert types** | |  P284 .S | |  LC . | |
| **Number of cutting edges** | 4 | 4 | 4 | 2 | 2 |
| **Page in catalogue** | B 254 | B 256 | B 262 | B 266 | B 268 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | D3120 | D3120 | D3120 | B3212 | B3212 |

**WALTER SELECT**

●● Primary application ● Other application

# Indexable insert drills



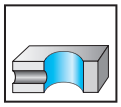
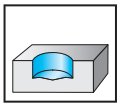
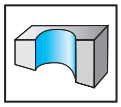
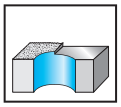
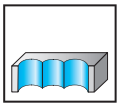
| | | | |
|---|---|---|---|
| Machining |  | | |
| Drilling depth | 3 x $D_C$ | 3 x $D_C$ | 4 x $D_C$ |
| |  | | |
| Designation | B3213 | B3213 | B3214 |
| Effective cutting edges | 1 | 1 | 1 |
| Diameter range | | | |
| [mm] | 10–18 | | 10–18 |
| [inch] | | 0.391–0.64 | |
| **P** Steel | ●● | ●● | |
| **M** Stainless steel | ●● | ●● | |
| **K** Cast iron | ●● | ●● | ●● |
| **N** Non-ferrous metals | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | |
| **H** Hard materials | | | |
| **O** Other | | | |
| Indexable insert types | |  LC . | |
| Number of cutting edges | 2 | 2 | 2 |
| Page in catalogue | B 272 | B 270 | B 274 |
| QR code | | | |
| www.walter-tools.com/woc/ | B3213 | B3213 | B3214 |

**WALTER SELECT** ●● Primary application ● Other application

# Indexable insert drill with cartridge

## D4170 mm

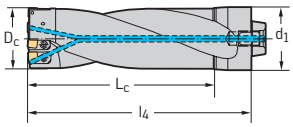
B1

| $D_c$ 65–80 | 3×$D_c$ | Z=1 |
|---|---|---|

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

## Tool




Modular NCT adaptor

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $d_1$ mm | $d_1$ | kg | No. of 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 | 4.64 | 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- .. |

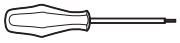
Important: Tool may create exit-disk at the site of tool exit. This disc might then be ejected. Please take precautionary measures.
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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 |
|  | External cartridge 2<br>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 |
|  | External cartridge 2<br>Clamping screw for<br>Tightening torque | FS966 (SW 5)<br>8 Nm | FS966 (SW 5)<br>8 Nm | FS966 (SW 5)<br>8 Nm | FS966 (SW 5)<br>8 Nm | FS966 (SW 5)<br>8 Nm |

## Accessories

| | $D_c$ [mm] | 65–80 |
|---|---|---|
|  | Torque screwdriver, analog | FS2003 |
|  | Torque screwdriver, digital | FS2248 |
|  | Interchangeable blade | FS2014 (T15IP) |
|  | External cartridge 2<br>ISO 2936 key for | ISO2936-4 (SW 4) |
|  | External cartridge 2<br>ISO 2936 key for | ISO2936-5 (SW5) |
|  | Screwdriver | FS1485 (T15IP) |

Three external cartridges 1 (FR738P-5) are fitted in tools with the diameter Dc = 80 mm

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 5–6 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 5–6 | | | | | | | | | | |
| | P4841C-.R-A57 | 5–6 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 5–6 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 5–6 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 5–6 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 5–6 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 5–6 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 5–6 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 5–6 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

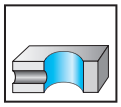
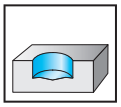
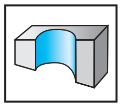
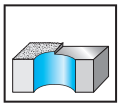
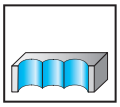
P48 . . C = Center insert
P48 . . P = Outer insert

HC = Coated carbide

# Indexable insert drills

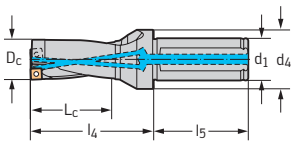
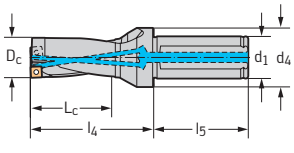
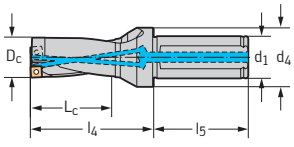
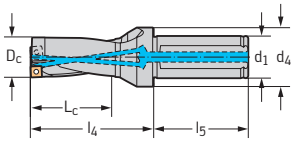
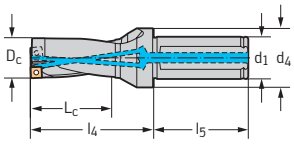
## D4120 mm

B1

2×$D_c$ | Z=1

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

| Tool | Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | D4120-02-13.50F20-P41 | 13.5 | 27 | 47 | 50 | 20 | 25 | 0.23 | 1 / 1 | P484 . P-1R- .. P484 . C-1R- .. |
| | D4120-02-14.00F20-P41 | 14 | 28 | 48 | 50 | 20 | 25 | 0.19 | 1 / 1 | |
| | D4120-02-14.50F20-P41 | 14.5 | 29 | 49 | 50 | 20 | 25 | 0.24 | 1 / 1 | |
| | D4120-02-15.00F20-P41 | 15 | 30 | 50 | 50 | 20 | 25 | 0.24 | 1 / 1 | |
| | D4120-02-15.50F20-P41 | 15.5 | 31 | 51 | 50 | 20 | 25 | 0.23 | 1 / 1 | |
| | D4120-02-16.00F25-P41 | 16 | 32 | 57 | 56 | 25 | 35 | 0.4 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-02-16.50F25-P42 | 16.5 | 33 | 58 | 56 | 25 | 35 | 0.41 | 1 / 1 | P484 . P-2R- .. P484 . C-2R- .. |
| | D4120-02-17.00F25-P42 | 17 | 34 | 59 | 56 | 25 | 35 | 0.41 | 1 / 1 | |
| | D4120-02-17.50F25-P42 | 17.5 | 35 | 60 | 56 | 25 | 35 | 0.4 | 1 / 1 | |
| | D4120-02-18.00F25-P42 | 18 | 36 | 61 | 56 | 25 | 35 | 0.42 | 1 / 1 | |
| | D4120-02-18.50F25-P42 | 18.5 | 37 | 62 | 56 | 25 | 35 | 0.32 | 1 / 1 | |
| | D4120-02-19.00F25-P42 | 19 | 38 | 63 | 56 | 25 | 35 | 0.42 | 1 / 1 | |
| | D4120-02-19.50F25-P42 | 19.5 | 39 | 64 | 56 | 25 | 35 | 0.43 | 1 / 1 | |
| | D4120-02-20.00F25-P42 | 20 | 40 | 65 | 56 | 25 | 35 | 0.43 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-02-20.50F25-P43 | 20.5 | 41 | 66 | 56 | 25 | 35 | 0.43 | 1 / 1 | P484 . P-3R- .. P484 . C-3R- .. |
| | D4120-02-21.00F25-P43 | 21 | 42 | 67 | 56 | 25 | 35 | 0.4 | 1 / 1 | |
| | D4120-02-21.50F25-P43 | 21.5 | 43 | 68 | 56 | 25 | 35 | 0.44 | 1 / 1 | |
| | D4120-02-22.00F25-P43 | 22 | 44 | 69 | 56 | 25 | 35 | 0.44 | 1 / 1 | |
| | D4120-02-22.50F25-P43 | 22.5 | 45 | 70 | 56 | 25 | 35 | 0.45 | 1 / 1 | |
| | D4120-02-23.00F25-P43 | 23 | 46 | 71 | 56 | 25 | 35 | 0.48 | 1 / 1 | |
| | D4120-02-23.50F25-P43 | 23.5 | 47 | 72 | 56 | 25 | 35 | 0.46 | 1 / 1 | |
| | D4120-02-24.00F25-P43 | 24 | 48 | 73 | 56 | 25 | 35 | 0.48 | 1 / 1 | |
|  Cylindrical shank with flat | 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 | 0.42 | 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 | |
|  Cylindrical 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 | 0.77 | 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 | |

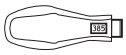
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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 | FS1453 (T15IP)<br>3.5 Nm | FS1495 (T20IP)<br>5 Nm | FS2120 (T6IP)<br>0.4 Nm | FS2111 (T7IP)<br>0.9 Nm | FS1454 (T8IP)<br>1.2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2.5 Nm |

## Accessories

| | $D_c$ [mm] | 13.5–16 | 16.5–20 | 20.5–24 | 24.5–29 | 29.5–42 | 43–59 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2003 | FS2001 | FS2001 | FS2001 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | | | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2015 (T20IP) | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) |
|  | Screwdriver | FS1486 (T20IP) | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 1–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 1–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

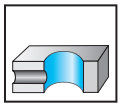
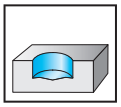
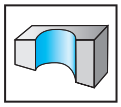
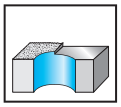
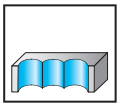
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

## D4120 mm

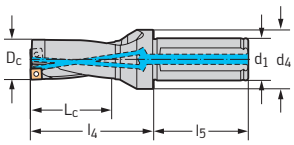
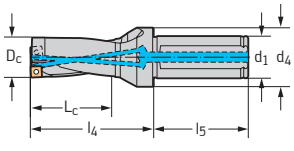
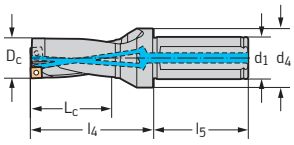


2×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | | |
| 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 | |
|  Cylindrical 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 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-02-51.00F40-P48 | 51 | 102 | 142 | 70 | 40 | 50 | 2.09 | 1 / 1 | P484 . P-8R- .. P484 . C-8R- .. |
| D4120-02-52.00F40-P48 | 52 | 104 | 144 | 70 | 40 | 50 | 2.04 | 1 / 1 | |
| 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 | |

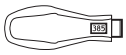
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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 | FS1453 (T15IP)<br>3.5 Nm | FS1495 (T20IP)<br>5 Nm | FS2120 (T6IP)<br>0.4 Nm | FS2111 (T7IP)<br>0.9 Nm | FS1454 (T8IP)<br>1.2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2.5 Nm |

## Accessories

| | $D_c$ [mm] | 13.5–16 | 16.5–20 | 20.5–24 | 24.5–29 | 29.5–42 | 43–59 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2003 | FS2001 | FS2001 | FS2001 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | | | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2015 (T20IP) | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) |
|  | Screwdriver | FS1486 (T20IP) | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 1–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 1–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

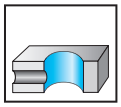
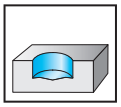
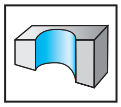
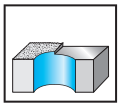
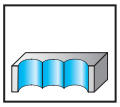
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

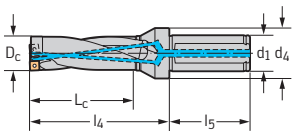
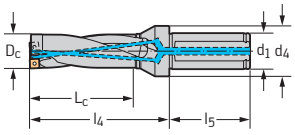
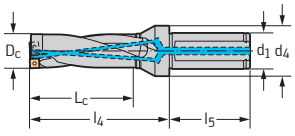
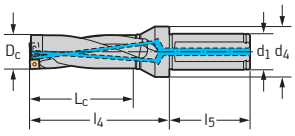
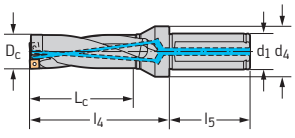
## D4120 mm

B1

3×$D_c$ | Z=1

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

| Tool | Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | D4120-03-13.50F20-P41 | 13.5 | 40.5 | 60.5 | 50 | 20 | 25 | 0.16 | 1 / 1 | P484 . P-1R- .. P484 . C-1R- .. |
| | D4120-03-14.00F20-P41 | 14 | 42 | 62 | 50 | 20 | 25 | 0.17 | 1 / 1 | |
| | D4120-03-14.50F20-P41 | 14.5 | 43.5 | 63.5 | 50 | 20 | 25 | 0.24 | 1 / 1 | |
| | D4120-03-15.00F20-P41 | 15 | 45 | 65 | 50 | 20 | 25 | 0.2 | 1 / 1 | |
| | D4120-03-15.50F20-P41 | 15.5 | 46.5 | 66.5 | 50 | 20 | 25 | 0.25 | 1 / 1 | |
| | D4120-03-16.00F25-P41 | 16 | 48 | 73 | 56 | 25 | 35 | 0.38 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-03-16.50F25-P42 | 16.5 | 49.5 | 75 | 56 | 25 | 35 | 0.42 | 1 / 1 | P484 . P-2R- .. P484 . C-2R- .. |
| | D4120-03-17.00F25-P42 | 17 | 51 | 76 | 56 | 25 | 35 | 0.35 | 1 / 1 | |
| | D4120-03-17.50F25-P42 | 17.5 | 52.5 | 77.5 | 56 | 25 | 35 | 0.43 | 1 / 1 | |
| | D4120-03-18.00F25-P42 | 18 | 54 | 79 | 56 | 25 | 35 | 0.44 | 1 / 1 | |
| | D4120-03-18.50F25-P42 | 18.5 | 55.5 | 80.5 | 56 | 25 | 35 | 0.39 | 1 / 1 | |
| | D4120-03-19.00F25-P42 | 19 | 57 | 82 | 56 | 25 | 35 | 0.45 | 1 / 1 | |
| | D4120-03-19.50F25-P42 | 19.5 | 58.5 | 84 | 56 | 25 | 35 | 0.46 | 1 / 1 | |
| | D4120-03-20.00F25-P42 | 20 | 60 | 85 | 56 | 25 | 35 | 0.46 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-03-20.50F25-P43 | 20.5 | 61.5 | 87 | 56 | 25 | 35 | 0.45 | 1 / 1 | P484 . P-3R- .. P484 . C-3R- .. |
| | D4120-03-21.00F25-P43 | 21 | 63 | 88 | 56 | 25 | 35 | 0.39 | 1 / 1 | |
| | D4120-03-21.50F25-P43 | 21.5 | 64.5 | 90 | 56 | 25 | 35 | 0.48 | 1 / 1 | |
| | D4120-03-22.00F25-P43 | 22 | 66 | 91 | 56 | 25 | 35 | 0.48 | 1 / 1 | |
| | D4120-03-22.50F25-P43 | 22.5 | 67.5 | 93 | 56 | 25 | 35 | 0.49 | 1 / 1 | |
| | D4120-03-23.00F25-P43 | 23 | 69 | 94 | 56 | 25 | 35 | 0.47 | 1 / 1 | |
| | D4120-03-23.50F25-P43 | 23.5 | 70.5 | 96 | 56 | 25 | 35 | 0.51 | 1 / 1 | |
| | D4120-03-24.00F25-P43 | 24 | 72 | 97 | 56 | 25 | 35 | 0.52 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-03-24.50F25-P44 | 24.5 | 73.5 | 99 | 56 | 25 | 35 | 0.52 | 1 / 1 | P484 . P-4R- .. P484 . C-4R- .. |
| | D4120-03-25.00F25-P44 | 25 | 75 | 100 | 56 | 25 | 35 | 0.43 | 1 / 1 | |
| | 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 | |
|  Cylindrical shank with flat | D4120-03-29.50F32-P45 | 29.5 | 88.5 | 121 | 60 | 32 | 42 | 0.93 | 1 / 1 | P484 . P-5R- .. P484 . C-5R- .. |
| | D4120-03-30.00F32-P45 | 30 | 90 | 122 | 60 | 32 | 42 | 0.94 | 1 / 1 | |
| | 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 | |

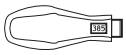
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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 | FS1453 (T15IP)<br>3.5 Nm | FS1495 (T20IP)<br>5 Nm | FS2120 (T6IP)<br>0.4 Nm | FS2111 (T7IP)<br>0.9 Nm | FS1454 (T8IP)<br>1.2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2.5 Nm |

## Accessories

| | $D_c$ [mm] | 13.5–16 | 16.5–20 | 20.5–24 | 24.5–29 | 29.5–42 | 43–59 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2003 | FS2001 | FS2001 | FS2001 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | | | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2015 (T20IP) | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) |
|  | Screwdriver | FS1486 (T20IP) | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 1–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 1–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

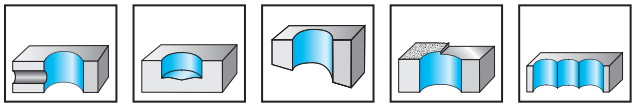
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

## D4120 mm

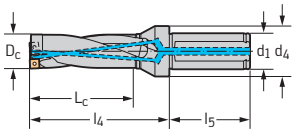
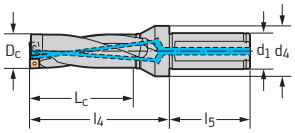
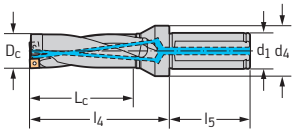




3×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | | |
| 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 | |
|  Cylindrical 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 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-03-51.00F40-P48 | 51 | 153 | 193 | 70 | 40 | 50 | 2.53 | 1 / 1 | P484 . P-8R- .. P484 . C-8R- .. |
| D4120-03-52.00F40-P48 | 52 | 156 | 196 | 70 | 40 | 50 | 2.6 | 1 / 1 | |
| 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 | |

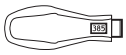
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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 | FS1453 (T15IP)<br>3.5 Nm | FS1495 (T20IP)<br>5 Nm | FS2120 (T6IP)<br>0.4 Nm | FS2111 (T7IP)<br>0.9 Nm | FS1454 (T8IP)<br>1.2 Nm | FS1457 (T9IP)<br>2 Nm | FS2080 (T15IP)<br>2.5 Nm |

## Accessories

| | $D_c$ [mm] | 13.5–16 | 16.5–20 | 20.5–24 | 24.5–29 | 29.5–42 | 43–59 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2003 | FS2001 | FS2001 | FS2001 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | | | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2015 (T20IP) | FS2085 (T6IP) | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) |
|  | Screwdriver | FS1486 (T20IP) | FS2086 (T6IP) | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 1–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 1–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 1–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 1–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 1–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

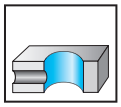
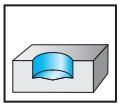
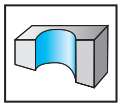
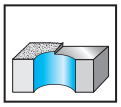
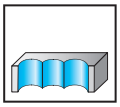
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

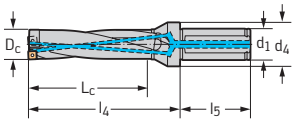
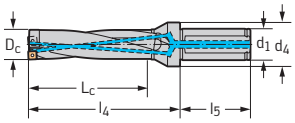
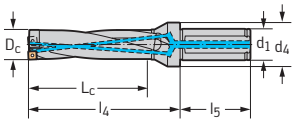
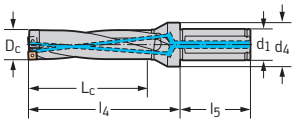
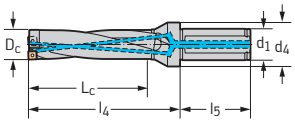
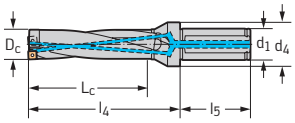
## D4120 mm

B1

4×$D_c$ | Z=1

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

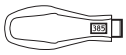
| Tool | Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | D4120-04-17.00F25-P42 | 17 | 68 | 93 | 56 | 25 | 35 | 0.45 | 1 / 1 | P484 . P-2R- .. P484 . C-2R- .. |
| | D4120-04-18.00F25-P42 | 18 | 72 | 97 | 56 | 25 | 35 | 0.46 | 1 / 1 | |
| | D4120-04-19.00F25-P42 | 19 | 76 | 101 | 56 | 25 | 35 | 0.47 | 1 / 1 | |
| | D4120-04-20.00F25-P42 | 20 | 80 | 105 | 56 | 25 | 35 | 0.49 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-04-21.00F25-P43 | 21 | 84 | 109 | 56 | 25 | 35 | 0.49 | 1 / 1 | P484 . P-3R- .. P484 . C-3R- .. |
| | D4120-04-22.00F25-P43 | 22 | 88 | 113 | 56 | 25 | 35 | 0.53 | 1 / 1 | |
| | D4120-04-23.00F25-P43 | 23 | 92 | 117 | 56 | 25 | 35 | 0.55 | 1 / 1 | |
| | D4120-04-24.00F25-P43 | 24 | 96 | 121 | 56 | 25 | 35 | 0.57 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-04-25.00F25-P44 | 25 | 100 | 125 | 56 | 25 | 35 | 0.58 | 1 / 1 | P484 . P-4R- .. P484 . C-4R- .. |
| | D4120-04-26.00F32-P44 | 26 | 104 | 136 | 60 | 32 | 42 | 0.89 | 1 / 1 | |
| | D4120-04-27.00F32-P44 | 27 | 108 | 140 | 60 | 32 | 42 | 0.93 | 1 / 1 | |
| | D4120-04-28.00F32-P44 | 28 | 112 | 144 | 60 | 32 | 42 | 0.96 | 1 / 1 | |
| | D4120-04-29.00F32-P44 | 29 | 116 | 148 | 60 | 32 | 42 | 1 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-04-30.00F32-P45 | 30 | 120 | 152 | 60 | 32 | 42 | 1.02 | 1 / 1 | P484 . P-5R- .. P484 . C-5R- .. |
| | D4120-04-31.00F32-P45 | 31 | 124 | 156 | 60 | 32 | 42 | 1.07 | 1 / 1 | |
| | D4120-04-32.00F32-P45 | 32 | 128 | 160 | 60 | 32 | 42 | 1.1 | 1 / 1 | |
| | D4120-04-33.00F32-P45 | 33 | 132 | 164 | 60 | 32 | 42 | 1.17 | 1 / 1 | |
| | D4120-04-34.00F32-P45 | 34 | 136 | 168 | 60 | 32 | 42 | 1.18 | 1 / 1 | |
| | D4120-04-35.00F32-P45 | 35 | 140 | 172 | 60 | 32 | 42 | 1.28 | 1 / 1 | |
|  Cylindrical shank with flat | D4120-04-36.00F32-P46 | 36 | 144 | 176 | 60 | 32 | 42 | 1.26 | 1 / 1 | P484 . P-6R- .. P484 . C-6R- .. |
| | D4120-04-37.00F40-P46 | 37 | 148 | 188 | 70 | 40 | 50 | 1.82 | 1 / 1 | |
| | 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 | |
|  Cylindrical shank with flat | D4120-04-43.00F40-P47 | 43 | 172 | 212 | 70 | 40 | 50 | 2.23 | 1 / 1 | P484 . P-7R- .. P484 . C-7R- .. |
| | D4120-04-44.00F40-P47 | 44 | 176 | 216 | 70 | 40 | 50 | 2.32 | 1 / 1 | |
| | 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 | |

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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

| | $D_c$ [mm] | 17–20 | 21–24 | 25–29 | 30–42 | 43–59 |
|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | 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 | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 2–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 2–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

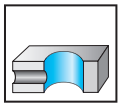
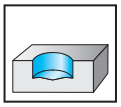
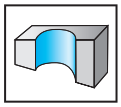
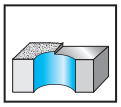
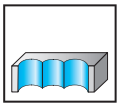
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

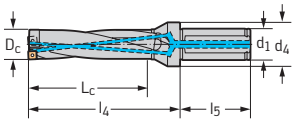
## D4120 mm

4×$D_c$ | Z=1

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

## Tool




Cylindrical shank with flat

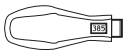
| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
| D4120-04-51.00F40-P48 | 51 | 204 | 244 | 70 | 40 | 50 | 2.98 | 1 / 1 | P484 . P-8R- .. P484 . C-8R- .. |
| D4120-04-52.00F40-P48 | 52 | 208 | 248 | 70 | 40 | 50 | 3.11 | 1 / 1 | |
| 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 | |

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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

| | $D_c$ [mm] | 17–20 | 21–24 | 25–29 | 30–42 | 43–59 |
|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | 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 | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 2–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 2–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

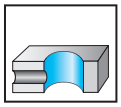
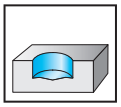
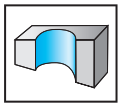
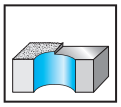
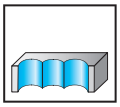
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

## D4120 mm

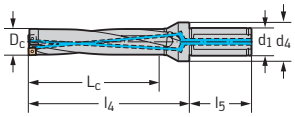
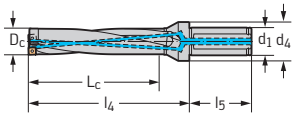
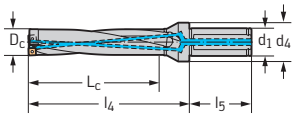
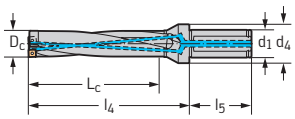
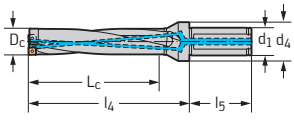
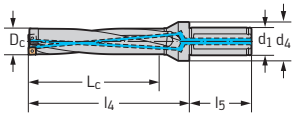
B1

5×$D_c$ | Z=1

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

## Tool

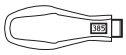
| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-05-17.00F25-P42 | 17 | 85 | 110 | 56 | 25 | 35 | 0.39 | 1 / 1 | P484 . P-2R- .. P484 . C-2R- .. |
| D4120-05-18.00F25-P42 | 18 | 90 | 115 | 56 | 25 | 35 | 0.47 | 1 / 1 | |
| D4120-05-19.00F25-P42 | 19 | 95 | 120 | 56 | 25 | 35 | 0.49 | 1 / 1 | |
| D4120-05-20.00F25-P42 | 20 | 100 | 125 | 56 | 25 | 35 | 0.51 | 1 / 1 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-05-21.00F25-P43 | 21 | 105 | 130 | 56 | 25 | 35 | 0.45 | 1 / 1 | P484 . P-3R- .. P484 . C-3R- .. |
| D4120-05-22.00F25-P43 | 22 | 110 | 135 | 56 | 25 | 35 | 0.58 | 1 / 1 | |
| D4120-05-23.00F25-P43 | 23 | 115 | 140 | 56 | 25 | 35 | 0.62 | 1 / 1 | |
| D4120-05-24.00F25-P43 | 24 | 120 | 145 | 56 | 25 | 35 | 0.63 | 1 / 1 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-05-25.00F25-P44 | 25 | 125 | 150 | 56 | 25 | 35 | 0.54 | 1 / 1 | P484 . P-4R- .. P484 . C-4R- .. |
| D4120-05-26.00F32-P44 | 26 | 130 | 162 | 60 | 32 | 42 | 0.95 | 1 / 1 | |
| D4120-05-27.00F32-P44 | 27 | 135 | 167 | 60 | 32 | 42 | 1 | 1 / 1 | |
| D4120-05-28.00F32-P44 | 28 | 140 | 172 | 60 | 32 | 42 | 1.03 | 1 / 1 | |
| D4120-05-29.00F32-P44 | 29 | 145 | 177 | 60 | 32 | 42 | 1.1 | 1 / 1 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-05-30.00F32-P45 | 30 | 150 | 182 | 60 | 32 | 42 | 1.01 | 1 / 1 | P484 . P-5R- .. P484 . C-5R- .. |
| D4120-05-31.00F32-P45 | 31 | 155 | 187 | 60 | 32 | 42 | 1.18 | 1 / 1 | |
| D4120-05-32.00F32-P45 | 32 | 160 | 192 | 60 | 32 | 42 | 1.23 | 1 / 1 | |
| D4120-05-33.00F32-P45 | 33 | 165 | 197 | 60 | 32 | 42 | 1.3 | 1 / 1 | |
| D4120-05-34.00F32-P45 | 34 | 170 | 202 | 60 | 32 | 42 | 1.37 | 1 / 1 | |
| D4120-05-35.00F32-P45 | 35 | 175 | 207 | 60 | 32 | 42 | 1.45 | 1 / 1 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-05-36.00F32-P46 | 36 | 180 | 212 | 60 | 32 | 42 | 1.32 | 1 / 1 | P484 . P-6R- .. P484 . C-6R- .. |
| D4120-05-37.00F40-P46 | 37 | 185 | 225 | 70 | 40 | 50 | 1.45 | 1 / 1 | |
| 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 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D4120-05-43.00F40-P47 | 43 | 215 | 255 | 70 | 40 | 50 | 2.54 | 1 / 1 | P484 . P-7R- .. P484 . C-7R- .. |
| D4120-05-44.00F40-P47 | 44 | 220 | 260 | 70 | 40 | 50 | 2.65 | 1 / 1 | |
| 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 | |

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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

| | $D_c$ [mm] | 17–20 | 21–24 | 25–29 | 30–42 | 43–59 | 54 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2001 | FS2001 | FS2003 | FS2003 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | | FS2248 | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2015 (T20IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1485 (T15IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 2–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 2–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

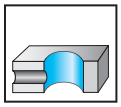
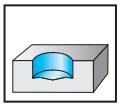
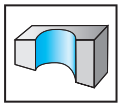
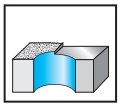
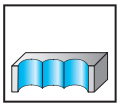
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

## D4120 mm

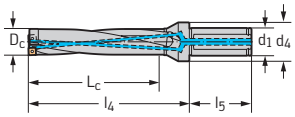


5×$D_c$ | Z=1

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

## Tool




Cylindrical shank with flat

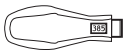
| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
| D4120-05-51.00F40-P48 | 51 | 255 | 295 | 70 | 40 | 50 | 3.45 | 1 / 1 | P484 . P-8R- .. P484 . C-8R- .. |
| D4120-05-52.00F40-P48 | 52 | 260 | 300 | 70 | 40 | 50 | 3.61 | 1 / 1 | |
| 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 | |

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [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

| | $D_c$ [mm] | 17–20 | 21–24 | 25–29 | 30–42 | 43–59 | 54 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2001 | FS2001 | FS2003 | FS2003 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | | FS2248 | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2015 (T20IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1485 (T15IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841C-.R-A57 | 2–8 | | 😠 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
| | P4841C-.R-E57 | 2–8 | | 😐 | 😠 | 😠 | 😠 | 😠 | | 😠 | | 😠 |
|  | P4840P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E67 | 2–8 | 🙂 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | 🙂 | |
| | P4841P-.R-A57 | 2–8 | 😐 | 😠 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |
| | P4841P-.R-E57 | 2–8 | 🙂 | 😐 | 😠 | | 😠 | | 😐 | 😠 | | 😠 |

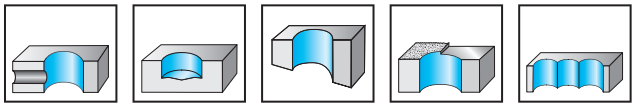
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😠

# Indexable insert drills

## D4120 inch

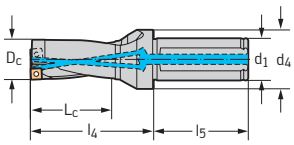
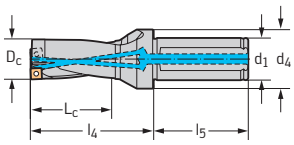
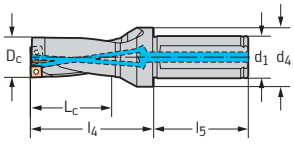




2×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-13.49F19-P41 | 0.531 | 1.062 | 1.849 | 2.031 | 0.750 | 1.125 | 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 | 1<br>1 | |
| D4120.02-14.27F19-P41 | 0.562 | 1.124 | 1.911 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.02-14.68F19-P41 | 0.578 | 1.156 | 1.943 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.02-15.09F19-P41 | 0.594 | 1.188 | 1.975 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.02-15.47F19-P41 | 0.609 | 1.218 | 2.005 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.02-15.88F19-P41 | 0.625 | 1.250 | 2.037 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-16.66F26-P42 | 0.656 | 1.312 | 2.310 | 2.281 | 1.000 | 1.375 | 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 | 1<br>1 | |
| D4120.02-17.45F26-P42 | 0.687 | 1.374 | 2.37 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.02-17.86F26-P42 | 0.703 | 1.406 | 2.410 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.02-18.24F26-P42 | 0.718 | 1.436 | 2.44 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.02-19.05F26-P42 | 0.750 | 1.500 | 2.500 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.02-19.43F26-P42 | 0.765 | 1.530 | 2.530 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.02-19.84F26-P42 | 0.781 | 1.562 | 2.560 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-20.62F26-P43 | 0.812 | 1.624 | 2.62 | 2.281 | 1.000 | 1.375 | 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 | 1<br>1 | |
| D4120.02-22.23F31-P43 | 0.875 | 1.750 | 2.880 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-23.01F31-P43 | 0.906 | 1.812 | 2.94 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-23.39F31-P43 | 0.921 | 1.842 | 2.97 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-23.80F31-P43 | 0.937 | 1.874 | 3.000 | 2.281 | 1.250 | 1.625 | 1<br>1 | |

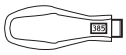
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [inch] | 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 (T6IP)<br>4 in lbs | FS2111 (T7IP)<br>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 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, analog | 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 | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 1–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 1–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

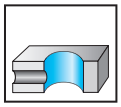
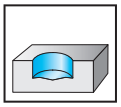
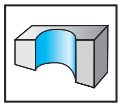
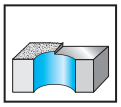
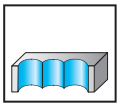
P48 . . C = Centre insert
P48 . . P = Outer insert

HC = Coated carbide

# Indexable insert drills

## D4120 inch

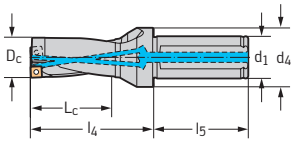
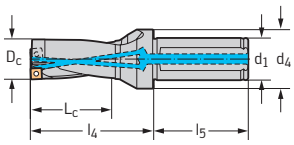
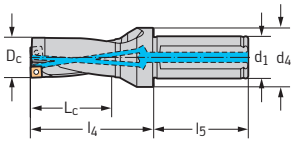
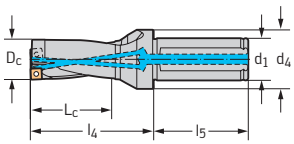


2×$D_c$ | Z=1

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

## Tool

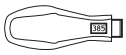
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-24.59F31-P44 | 0.968 | 1.936 | 3.07 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-4R- ..<br>P484 . C-4R- .. |
| D4120.02-24.99F31-P44 | 0.984 | 1.968 | 3.100 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-25.40F31-P44 | 1.000 | 2.000 | 3.130 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-26.57F31-P44 | 1.046 | 2.092 | 3.22 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-26.97F31-P44 | 1.062 | 2.124 | 3.250 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-28.17F31-P44 | 1.109 | 2.218 | 3.350 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-28.58F31-P44 | 1.125 | 2.250 | 3.380 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-29.74F31-P45 | 1.171 | 2.342 | 3.47 | 2.281 | 1.250 | 1.625 | 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 | 1<br>1 | |
| D4120.02-31.75F31-P45 | 1.250 | 2.500 | 3.630 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-33.32F31-P45 | 1.312 | 2.624 | 3.750 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-34.11F31-P45 | 1.343 | 2.686 | 3.82 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.02-34.93F31-P45 | 1.375 | 2.750 | 3.880 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-36.09F31-P46 | 1.421 | 2.842 | 3.97 | 2.281 | 1.250 | 1.625 | 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 | 1<br>1 | |
| D4120.02-38.10F38-P46 | 1.500 | 3.000 | 4.380 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.02-39.67F38-P46 | 1.562 | 3.124 | 4.500 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.02-41.28F38-P46 | 1.625 | 3.250 | 4.630 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.02-42.85F38-P47 | 1.687 | 3.374 | 4.750 | 2.688 | 1.500 | 1.940 | 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 | 1<br>1 | |
| D4120.02-46.02F38-P47 | 1.812 | 3.624 | 5.000 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.02-47.63F38-P47 | 1.875 | 3.750 | 5.130 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.02-49.20F38-P47 | 1.937 | 3.874 | 5.250 | 2.688 | 1.500 | 1.940 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_c$ [inch] | 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 (T6IP)<br>4 in lbs | FS2111 (T7IP)<br>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 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, analog | 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 | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 1–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 1–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

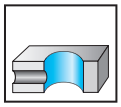
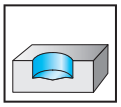
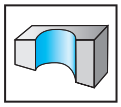
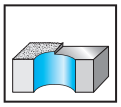
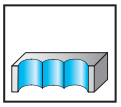
P48 . . C = Centre insert
P48 . . P = Outer insert

HC = Coated carbide

# Indexable insert drills

## D4120 inch

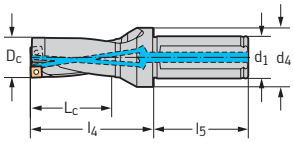


2×$D_c$ | Z=1

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

## Tool




Cylindrical shank with flat

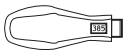
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| D4120.02-50.80F51-P48 | 2.000 | 4.000 | 5.62 | 3.250 | 2.000 | 2.440 | 1<br>1 | P484 . P-8R- ..<br>P484 . C-8R- .. |
| D4120.02-52.37F51-P48 | 2.062 | 4.124 | 5.74 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.02-53.98F51-P48 | 2.125 | 4.250 | 5.87 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.02-55.55F51-P48 | 2.187 | 4.374 | 5.99 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.02-57.15F51-P48 | 2.250 | 4.500 | 6.12 | 3.250 | 2.000 | 2.440 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_c$ [inch] | 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>4 in lbs | FS2111<br>(T7IP)<br>8 in lbs | FS1454<br>(T8IP)<br>11 in lbs | FS1457<br>(T9IP)<br>18 in lbs | FS2080<br>(T15IP)<br>22 in lbs | FS1453<br>(T15IP)<br>31 in lbs | FS1495<br>(T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 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, analog | FS2002 | FS2002 | FS2002 | FS2004 | FS2004 | FS2004 |
|  | Torque screwdriver, digital | | | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2085<br>(T6IP) | FS2011<br>(T7IP) | FS2012<br>(T8IP) | FS2013<br>(T9IP) | FS2014<br>(T15IP) | FS2015<br>(T20IP) |
|  | Screwdriver | FS2086<br>(T6IP) | FS2088<br>(T7IP) | FS1483<br>(T8IP) | FS1484<br>(T9IP) | FS1485<br>(T15IP) | FS1486<br>(T20IP) |

## Indexable inserts

| | Designation | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 1–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 1–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

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

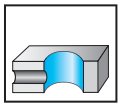
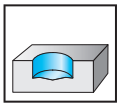
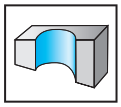
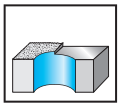
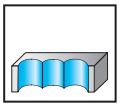
HC = Coated carbide

B1

# Indexable insert drills

## D4120 inch

B1

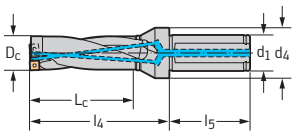






3×$D_c$ | Z=1

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

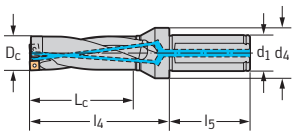
### Tool

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| D4120.03-13.49F19-P41 | 0.531 | 1.593 | 2.380 | 2.031 | 0.750 | 1.125 | 1<br>1 | P484 . P-1R- ..<br>P484 . C-1R- .. |
| D4120.03-13.89F19-P41 | 0.547 | 1.641 | 2.428 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.03-14.27F19-P41 | 0.562 | 1.686 | 2.473 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.03-14.68F19-P41 | 0.578 | 1.734 | 2.521 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.03-15.09F19-P41 | 0.594 | 1.782 | 2.569 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.03-15.47F19-P41 | 0.609 | 1.827 | 2.614 | 2.031 | 0.750 | 1.125 | 1<br>1 | |
| D4120.03-15.88F19-P41 | 0.625 | 1.875 | 2.662 | 2.031 | 0.750 | 1.125 | 1<br>1 | |




Cylindrical shank with flat

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D4120.03-16.66F26-P42 | 0.656 | 1.968 | 2.97 | 2.281 | 1.000 | 1.375 | 1<br>1 | P484 . P-2R- ..<br>P484 . C-2R- .. |
| D4120.03-17.04F26-P42 | 0.671 | 2.013 | 3.010 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-17.45F26-P42 | 0.687 | 2.061 | 3.060 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-17.86F26-P42 | 0.703 | 2.109 | 3.110 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-18.24F26-P42 | 0.718 | 2.154 | 3.150 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-19.05F26-P42 | 0.750 | 2.250 | 3.250 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-19.43F26-P42 | 0.765 | 2.295 | 3.300 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-19.84F26-P42 | 0.781 | 2.343 | 3.34 | 2.281 | 1.000 | 1.375 | 1<br>1 | |




Cylindrical shank with flat

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D4120.03-20.62F26-P43 | 0.812 | 2.436 | 3.44 | 2.281 | 1.000 | 1.375 | 1<br>1 | P484 . P-3R- ..<br>P484 . C-3R- .. |
| D4120.03-21.41F26-P43 | 0.843 | 2.529 | 3.530 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.03-22.23F31-P43 | 0.875 | 2.625 | 3.760 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-23.01F31-P43 | 0.906 | 2.718 | 3.850 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-23.39F31-P43 | 0.921 | 2.763 | 3.89 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-23.80F31-P43 | 0.937 | 2.811 | 3.94 | 2.281 | 1.250 | 1.625 | 1<br>1 | |

Cylindrical shank with flat

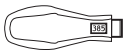
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [inch] | 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 (T6IP)<br>4 in lbs | FS2111 (T7IP)<br>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 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, analog | 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 | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 1–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 1–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

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

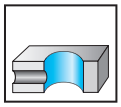
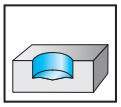
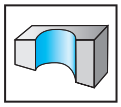
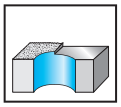
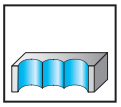
HC = Coated carbide

B1

# Indexable insert drills

## D4120 inch

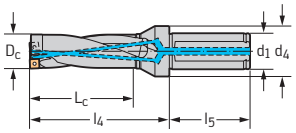
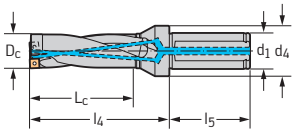
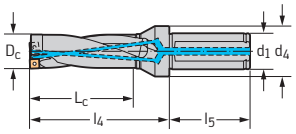
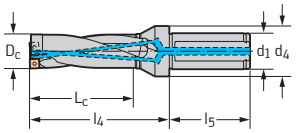
B1

3×$D_c$ | Z=1

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

### Tool

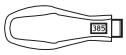
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | |
| D4120.03-24.59F31-P44 | 0.968 | 2.904 | 4.030 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-4R- ..<br>P484 . C-4R- .. |
| D4120.03-24.99F31-P44 | 0.984 | 2.952 | 4.080 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-25.40F31-P44 | 1.000 | 3.000 | 4.130 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-26.57F31-P44 | 1.046 | 3.138 | 4.27 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-26.97F31-P44 | 1.062 | 3.186 | 4.32 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-28.17F31-P44 | 1.109 | 3.327 | 4.460 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-28.58F31-P44 | 1.125 | 3.375 | 4.510 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.03-29.74F31-P45 | 1.171 | 3.513 | 4.64 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-5R- ..<br>P484 . C-5R- .. |
| D4120.03-30.15F31-P45 | 1.187 | 3.561 | 4.69 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-31.75F31-P45 | 1.250 | 3.750 | 4.880 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-33.32F31-P45 | 1.312 | 3.936 | 5.07 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-34.11F31-P45 | 1.343 | 4.029 | 5.160 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.03-34.93F31-P45 | 1.375 | 4.125 | 5.260 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.03-36.09F31-P46 | 1.421 | 4.263 | 5.39 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-6R- ..<br>P484 . C-6R- .. |
| D4120.03-36.50F38-P46 | 1.437 | 4.311 | 5.69 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.03-38.10F38-P46 | 1.500 | 4.500 | 5.880 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.03-39.67F38-P46 | 1.562 | 4.686 | 6.07 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.03-41.28F38-P46 | 1.625 | 4.875 | 6.260 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.03-42.85F38-P47 | 1.687 | 5.061 | 6.44 | 2.688 | 1.500 | 1.940 | 1<br>1 | P484 . P-7R- ..<br>P484 . C-7R- .. |
| D4120.03-44.45F38-P47 | 1.750 | 5.250 | 6.630 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.03-46.02F38-P47 | 1.812 | 5.436 | 6.82 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.03-47.63F38-P47 | 1.875 | 5.625 | 7.010 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.03-49.20F38-P47 | 1.937 | 5.811 | 7.19 | 2.688 | 1.500 | 1.940 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_c$ [inch] | 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>4 in lbs | FS2111<br>(T7IP)<br>8 in lbs | FS1454<br>(T8IP)<br>11 in lbs | FS1457<br>(T9IP)<br>18 in lbs | FS2080<br>(T15IP)<br>22 in lbs | FS1453<br>(T15IP)<br>31 in lbs | FS1495<br>(T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 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, analog | FS2002 | FS2002 | FS2002 | FS2004 | FS2004 | FS2004 |
|  | Torque screwdriver, digital | | | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2085<br>(T6IP) | FS2011<br>(T7IP) | FS2012<br>(T8IP) | FS2013<br>(T9IP) | FS2014<br>(T15IP) | FS2015<br>(T20IP) |
|  | Screwdriver | FS2086<br>(T6IP) | FS2088<br>(T7IP) | FS1483<br>(T8IP) | FS1484<br>(T9IP) | FS1485<br>(T15IP) | FS1486<br>(T20IP) |

## Indexable inserts

| | Designation | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 1–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 1–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

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

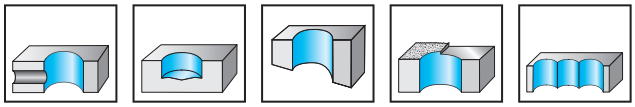
HC = Coated carbide

B1

# Indexable insert drills

## D4120 inch

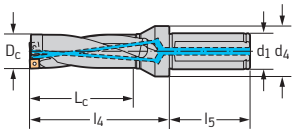




3×$D_c$ | Z=1

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

## Tool




Cylindrical shank with flat

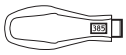
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| D4120.03-50.80F51-P48 | 2.000 | 6.000 | 7.62 | 3.250 | 2.000 | 2.440 | 1<br>1 | P484 . P-8R- ..<br>P484 . C-8R- .. |
| D4120.03-52.37F51-P48 | 2.062 | 6.186 | 7.810 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.03-53.98F51-P48 | 2.125 | 6.375 | 8.000 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.03-55.55F51-P48 | 2.187 | 6.561 | 8.180 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.03-57.15F51-P48 | 2.250 | 6.750 | 8.37 | 3.250 | 2.000 | 2.440 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_c$ [inch] | 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>4 in lbs | FS2111<br>(T7IP)<br>8 in lbs | FS1454<br>(T8IP)<br>11 in lbs | FS1457<br>(T9IP)<br>18 in lbs | FS2080<br>(T15IP)<br>22 in lbs | FS1453<br>(T15IP)<br>31 in lbs | FS1495<br>(T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 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, analog | FS2002 | FS2002 | FS2002 | FS2004 | FS2004 | FS2004 |
|  | Torque screwdriver, digital | | | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2085<br>(T6IP) | FS2011<br>(T7IP) | FS2012<br>(T8IP) | FS2013<br>(T9IP) | FS2014<br>(T15IP) | FS2015<br>(T20IP) |
|  | Screwdriver | FS2086<br>(T6IP) | FS2088<br>(T7IP) | FS1483<br>(T8IP) | FS1484<br>(T9IP) | FS1485<br>(T15IP) | FS1486<br>(T20IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 1–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 1–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 1–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 1–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 1–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 1–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

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

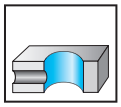
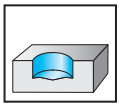
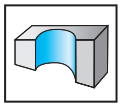
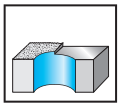
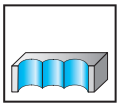
HC = Coated carbide

B1

# Indexable insert drills

## D4120 inch

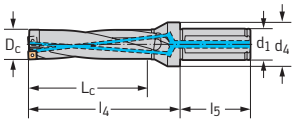
B1

4×$D_c$ | Z=1

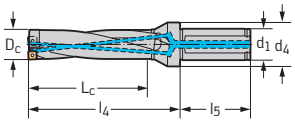
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4120 | ●● | ● | ●● | ●● | ● | | |

### Tool



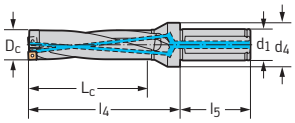

Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| D4120.04-16.66F26-P42 | 0.656 | 2.624 | 3.62 | 2.281 | 1.000 | 1.375 | 1<br>1 | P484 . P-2R- ..<br>P484 . C-2R- .. |
| D4120.04-17.04F26-P42 | 0.671 | 2.684 | 3.680 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-17.45F26-P42 | 0.687 | 2.748 | 3.750 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-17.86F26-P42 | 0.703 | 2.812 | 3.810 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-18.24F26-P42 | 0.718 | 2.872 | 3.87 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-19.05F26-P42 | 0.750 | 3.000 | 4.000 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-19.43F26-P42 | 0.765 | 3.060 | 4.060 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-19.84F26-P42 | 0.781 | 3.124 | 4.12 | 2.281 | 1.000 | 1.375 | 1<br>1 | |




Cylindrical shank with flat

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D4120.04-20.62F26-P43 | 0.812 | 3.248 | 4.250 | 2.281 | 1.000 | 1.375 | 1<br>1 | P484 . P-3R- ..<br>P484 . C-3R- .. |
| D4120.04-21.41F26-P43 | 0.843 | 3.372 | 4.37 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.04-22.23F31-P43 | 0.875 | 3.500 | 4.630 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-23.01F31-P43 | 0.906 | 3.624 | 4.750 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-23.39F31-P43 | 0.921 | 3.684 | 4.810 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-23.80F31-P43 | 0.937 | 3.748 | 4.880 | 2.281 | 1.250 | 1.625 | 1<br>1 | |




Cylindrical shank with flat

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D4120.04-24.59F31-P44 | 0.968 | 3.872 | 5.000 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-4R- ..<br>P484 . C-4R- .. |
| D4120.04-24.99F31-P44 | 0.984 | 3.936 | 5.07 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-25.40F31-P44 | 1.000 | 4.000 | 5.130 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-26.57F31-P44 | 1.046 | 4.184 | 5.310 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-26.97F31-P44 | 1.062 | 4.248 | 5.380 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-28.17F31-P44 | 1.109 | 4.436 | 5.57 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-28.58F31-P44 | 1.125 | 4.500 | 5.630 | 2.281 | 1.250 | 1.625 | 1<br>1 | |

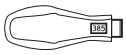
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [inch] | 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>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 0.66–0.78 | 0.81–0.94 | 0.97–1.12 | 1.17–1.62 | 1.69–2.25 |
|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | 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 | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 2–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 2–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

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

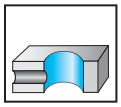
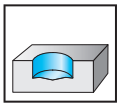
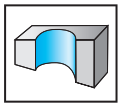
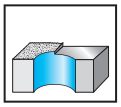
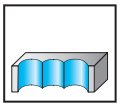
HC = Coated carbide

B1

# Indexable insert drills

## D4120 inch

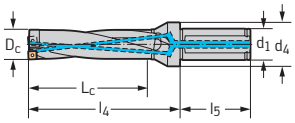
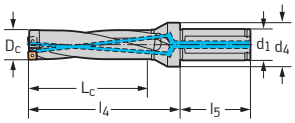
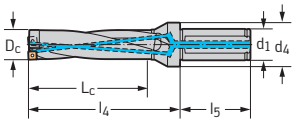
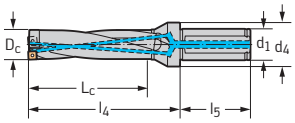
B1

4×$D_c$ | Z=1

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

## Tool

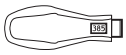
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | |
| D4120.04-29.74F31-P45 | 1.171 | 4.684 | 5.810 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-5R- ..<br>P484 . C-5R- .. |
| D4120.04-30.15F31-P45 | 1.187 | 4.748 | 5.880 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-31.75F31-P45 | 1.250 | 5.000 | 6.130 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-33.32F31-P45 | 1.312 | 5.248 | 6.380 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-34.11F31-P45 | 1.343 | 5.372 | 6.496 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.04-34.93F31-P45 | 1.375 | 5.500 | 6.630 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.04-36.09F31-P46 | 1.421 | 5.684 | 6.810 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-6R- ..<br>P484 . C-6R- .. |
| D4120.04-36.50F38-P46 | 1.437 | 5.748 | 7.130 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.04-38.10F38-P46 | 1.500 | 6.000 | 7.380 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.04-39.67F38-P46 | 1.562 | 6.248 | 7.630 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.04-41.28F38-P46 | 1.625 | 6.500 | 7.880 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.04-42.85F38-P47 | 1.687 | 6.748 | 8.128 | 2.688 | 1.500 | 1.940 | 1<br>1 | P484 . P-7R- ..<br>P484 . C-7R- .. |
| D4120.04-44.45F38-P47 | 1.750 | 7.000 | 8.380 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.04-46.02F38-P47 | 1.812 | 7.248 | 8.628 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.04-47.63F38-P47 | 1.875 | 7.500 | 8.880 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.04-49.20F38-P47 | 1.937 | 7.748 | 9.128 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.04-50.80F51-P48 | 2.000 | 8.000 | 9.62 | 3.250 | 2.000 | 2.440 | 1<br>1 | P484 . P-8R- ..<br>P484 . C-8R- .. |
| D4120.04-52.37F51-P48 | 2.062 | 8.248 | 9.868 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.04-53.98F51-P48 | 2.125 | 8.500 | 10.12 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.04-55.55F51-P48 | 2.187 | 8.748 | 10.368 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.04-57.15F51-P48 | 2.250 | 9.000 | 10.62 | 3.250 | 2.000 | 2.440 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_c$ [inch] | 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>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 0.66–0.78 | 0.81–0.94 | 0.97–1.12 | 1.17–1.62 | 1.69–2.25 |
|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | 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 | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 2–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 2–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

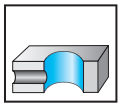
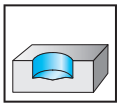
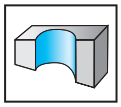
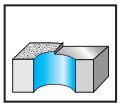
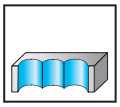
P48 . . C = Centre insert
P48 . . P = Outer insert

HC = Coated carbide

# Indexable insert drills

## D4120 inch

B1

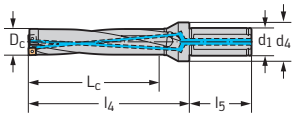






5×$D_c$ | Z=1

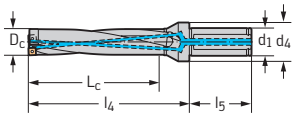
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4120 | ●● | | ●● | ●● | | | |

## Tool

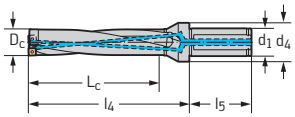
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| D4120.05-16.66F26-P42 | 0.656 | 3.280 | 4.280 | 2.281 | 1.000 | 1.375 | 1<br>1 | P484 . P-2R- ..<br>P484 . C-2R- .. |
| D4120.05-17.04F26-P42 | 0.671 | 3.355 | 4.355 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-17.45F26-P42 | 0.687 | 3.435 | 4.435 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-17.86F26-P42 | 0.703 | 3.515 | 4.515 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-18.24F26-P42 | 0.718 | 3.590 | 4.59 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-19.05F26-P42 | 0.750 | 3.750 | 4.750 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-19.43F26-P42 | 0.765 | 3.825 | 4.825 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-19.84F26-P42 | 0.781 | 3.905 | 4.905 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-20.62F26-P43 | 0.812 | 4.06 | 5.060 | 2.281 | 1.000 | 1.375 | 1<br>1 | P484 . P-3R- ..<br>P484 . C-3R- .. |
| D4120.05-21.41F26-P43 | 0.843 | 4.215 | 5.215 | 2.281 | 1.000 | 1.375 | 1<br>1 | |
| D4120.05-22.23F31-P43 | 0.875 | 4.375 | 5.505 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-23.01F31-P43 | 0.906 | 4.530 | 5.660 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-23.39F31-P43 | 0.921 | 4.605 | 5.735 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-23.80F31-P43 | 0.937 | 4.685 | 5.815 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-24.59F31-P44 | 0.968 | 4.840 | 5.97 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-4R- ..<br>P484 . C-4R- .. |
| D4120.05-24.99F31-P44 | 0.984 | 4.92 | 6.050 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-25.40F31-P44 | 1.000 | 5.000 | 6.130 | 2.362 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-26.57F31-P44 | 1.046 | 5.230 | 6.360 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-26.97F31-P44 | 1.062 | 5.31 | 6.44 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-28.17F31-P44 | 1.109 | 5.545 | 6.675 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-28.58F31-P44 | 1.125 | 5.625 | 6.755 | 2.281 | 1.250 | 1.625 | 1<br>1 | |




Cylindrical shank with flat




Cylindrical shank with flat




Cylindrical shank with flat

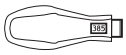
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [inch] | 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>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 0.66–0.78 | 0.81–0.94 | 0.97–1.12 | 1.17–1.62 | 1.69–2.25 |
|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | 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 | Size | P | | | | M | | K | | N | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | HC | | HC | HC | HC |
| | | | WKP25S | WKP35S | WSP45G | WXP40 | WSP45G | WXP40 | WKP25S | WKP35S | WNN15 | WSP45G |
|  | P4840C-.R-E67 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 2–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 2–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

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

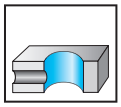
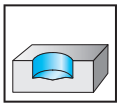
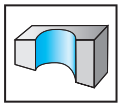
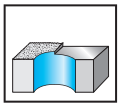
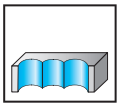
HC = Coated carbide

B1

# Indexable insert drills

## D4120 inch

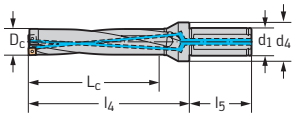
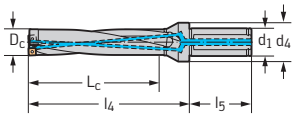
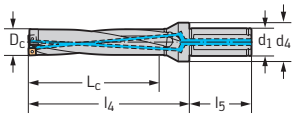
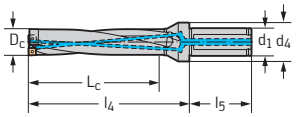
B1

5×$D_c$ | Z=1

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

### Tool

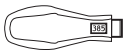
| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | |
| D4120.05-29.74F31-P45 | 1.171 | 5.855 | 6.985 | 2.281 | 1.250 | 1.625 | 1<br>1 | P484 . P-5R- ..<br>P484 . C-5R- .. |
| D4120.05-30.15F31-P45 | 1.187 | 5.935 | 7.065 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-31.75F31-P45 | 1.250 | 6.250 | 7.380 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-33.32F31-P45 | 1.312 | 6.56 | 7.69 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-34.11F31-P45 | 1.343 | 6.715 | 7.845 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
| D4120.05-34.93F31-P45 | 1.375 | 6.875 | 8.005 | 2.281 | 1.250 | 1.625 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.05-36.09F31-P46 | 1.421 | 7.105 | 8.235 | 2.281 | 1.250 | 1.625 | 1<br>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 | 1<br>1 | |
| D4120.05-38.10F38-P46 | 1.500 | 7.500 | 8.880 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.05-39.67F38-P46 | 1.562 | 7.81 | 9.19 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.05-41.28F38-P46 | 1.625 | 8.125 | 9.505 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.05-42.85F38-P47 | 1.687 | 8.435 | 9.815 | 2.688 | 1.500 | 1.940 | 1<br>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 | 1<br>1 | |
| D4120.05-46.02F38-P47 | 1.812 | 9.06 | 10.44 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.05-47.63F38-P47 | 1.875 | 9.375 | 10.755 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
| D4120.05-49.20F38-P47 | 1.937 | 9.685 | 11.065 | 2.688 | 1.500 | 1.940 | 1<br>1 | |
|  Cylindrical shank with flat | | | | | | | | |
| D4120.05-50.80F51-P48 | 2.000 | 10.000 | 11.62 | 3.250 | 2.000 | 2.440 | 1<br>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 | 1<br>1 | |
| D4120.05-53.98F51-P48 | 2.125 | 10.625 | 12.245 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.05-55.55F51-P48 | 2.187 | 10.935 | 12.555 | 3.250 | 2.000 | 2.440 | 1<br>1 | |
| D4120.05-57.15F51-P48 | 2.250 | 11.250 | 12.87 | 3.250 | 2.000 | 2.440 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | $D_c$ [inch] | 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>8 in lbs | FS1454 (T8IP)<br>11 in lbs | FS1457 (T9IP)<br>18 in lbs | FS2080 (T15IP)<br>22 in lbs | FS1453 (T15IP)<br>31 in lbs | FS1495 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 0.66–0.78 | 0.81–0.94 | 0.97–1.12 | 1.17–1.62 | 1.69–2.25 |
|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | 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 | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WXP40 | M HC WSP45G | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | S HC WSP45G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4840C-.R-E67 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4840C-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841C-.R-A57 | 2–8 | | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
| | P4841C-.R-E57 | 2–8 | | 😐 | ☹ | ☹ | ☹ | ☹ | | ☹ | | ☹ |
|  | P4840P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E67 | 2–8 | ☺ | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4840P-.R-E77 | 2–8 | | | | | | | | | ☺ | |
| | P4841P-.R-A57 | 2–8 | 😐 | ☹ | ☹ | | ☹ | | 😐 | ☹ | | ☹ |
| | P4841P-.R-E57 | 2–8 | ☺ | 😐 | ☹ | | ☹ | | 😐 | ☹ | | ☹ |

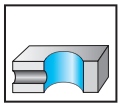
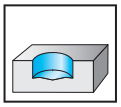
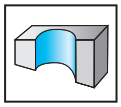
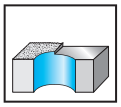
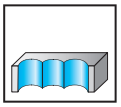
P48 . . C = Centre insert
P48 . . P = Outer insert

HC = Coated carbide

# Indexable insert drills

## D3120 mm

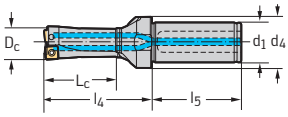
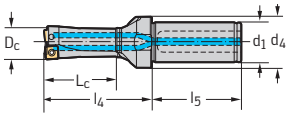
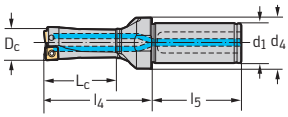
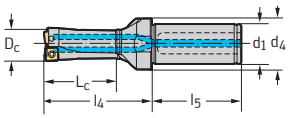
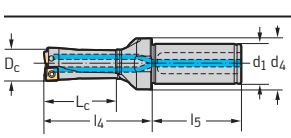


2×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | D3120-02-16.00F25-P21 | 16 | 32 | 57 | 56 | 25 | 32 | 0.3 | 2 | P284 . S-1N- .. |
| | D3120-02-17.00F25-P21 | 17 | 34 | 59 | 56 | 25 | 32 | 0.31 | 2 | |
| | D3120-02-18.00F25-P21 | 18 | 36 | 61 | 56 | 25 | 32 | 0.31 | 2 | |
| | D3120-02-19.00F25-P21 | 19 | 38 | 63 | 56 | 25 | 32 | 0.32 | 2 | |
| | D3120-02-20.00F25-P21 | 20 | 40 | 65 | 56 | 25 | 32 | 0.34 | 2 | |
|  Cylindrical shank with flat | D3120-02-21.00F25-P22 | 21 | 42 | 67 | 56 | 25 | 32 | 0.36 | 2 | P284 . S-2N- .. |
| | D3120-02-22.00F25-P22 | 22 | 44 | 69 | 56 | 25 | 32 | 0.35 | 2 | |
| | D3120-02-23.00F25-P22 | 23 | 46 | 71 | 56 | 25 | 32 | 0.36 | 2 | |
| | D3120-02-24.00F25-P22 | 24 | 48 | 73 | 56 | 25 | 32 | 0.37 | 2 | |
| | D3120-02-25.00F25-P22 | 25 | 50 | 75 | 56 | 25 | 32 | 0.39 | 2 | |
|  Cylindrical shank with flat | D3120-02-26.00F32-P23 | 26 | 52 | 84 | 60 | 32 | 40 | 0.62 | 2 | P284 . S-3N- .. |
| | D3120-02-27.00F32-P23 | 27 | 54 | 86 | 60 | 32 | 40 | 0.68 | 2 | |
| | D3120-02-28.00F32-P23 | 28 | 56 | 88 | 60 | 32 | 40 | 0.66 | 2 | |
| | D3120-02-29.00F32-P23 | 29 | 58 | 90 | 60 | 32 | 40 | 0.69 | 2 | |
| | D3120-02-30.00F32-P23 | 30 | 60 | 92 | 60 | 32 | 40 | 0.71 | 2 | |
|  Cylindrical shank with flat | D3120-02-31.00F32-P24 | 31 | 62 | 94 | 60 | 32 | 40 | 0.69 | 2 | P284 . S-4N- .. |
| | D3120-02-32.00F32-P24 | 32 | 64 | 96 | 60 | 32 | 40 | 0.72 | 2 | |
| | D3120-02-33.00F32-P24 | 33 | 66 | 98 | 60 | 32 | 40 | 0.75 | 2 | |
| | D3120-02-34.00F32-P24 | 34 | 68 | 100 | 60 | 32 | 40 | 0.78 | 2 | |
| | D3120-02-35.00F32-P24 | 35 | 70 | 102 | 60 | 32 | 40 | 0.81 | 2 | |
| | D3120-02-36.00F32-P24 | 36 | 72 | 104 | 60 | 32 | 40 | 0.85 | 2 | |
|  Cylindrical shank with flat | D3120-02-37.00F40-P25 | 37 | 74 | 114 | 70 | 40 | 50 | 1.28 | 2 | P284 . S-5N- .. |
| | D3120-02-38.00F40-P25 | 38 | 76 | 116 | 70 | 40 | 50 | 1.32 | 2 | |
| | D3120-02-39.00F40-P25 | 39 | 78 | 118 | 70 | 40 | 50 | 1.36 | 2 | |
| | D3120-02-40.00F40-P25 | 40 | 80 | 120 | 70 | 40 | 50 | 1.39 | 2 | |
| | D3120-02-41.00F40-P25 | 41 | 82 | 122 | 70 | 40 | 50 | 1.44 | 2 | |
| | D3120-02-42.00F40-P25 | 42 | 84 | 124 | 70 | 40 | 50 | 1.48 | 2 | |

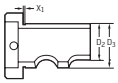
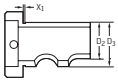
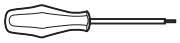
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [mm] | 16–20 | 21–25 | 26–30 | 31–36 | 37–42 |
|---|---|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>1.2 Nm | FS1456 (T9IP)<br>2 Nm | FS2181 (T15IP)<br>3 Nm | FS2119 (T15IP)<br>3 Nm | FS2139 (T20IP)<br>5 Nm |

## Accessories

| | $D_c$ [mm] | 16–20 | 21–25 | 26–36 | 37–42 |
|---|---|---|---|---|---|
|  | Eccentric sleeve, adj. range dia. -0.2 to +0.55 mm | | | FS723 | FS724 |
|  | Eccentric sleeve, adj. range dia. -0.2 to +0.55 mm | FS722 | FS722 | | |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | | | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver | | | FS1485 (T15IP) | FS1486 (T20IP) |
|  | Interchangeable blade | FS2012 (T8IP) | FS2013 (T9IP) | | |
|  | Screwdriver | FS1483 (T8IP) | FS1484 (T9IP) | | |

## Indexable inserts

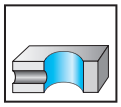
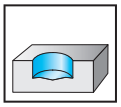
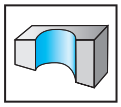
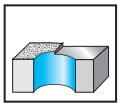
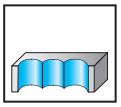
| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P2840S-.N-A57 | 1–5 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ | ☹ |
| | P2840S-.N-E67 | 1–5 | | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ | ☹ |
| | P2840S-.N-E77 | 1–5 | | | | | | | | | | | ☺ | ☺ | | |
| | P2841S-.N-A57 | 1–5 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ | ☹ |
| | P2841S-.N-E57 | 1–5 | ☺ | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ | ☹ |
| | P2841S-.N-E67 | 1–5 | | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ | ☹ |

HC = Coated carbide
HW = Uncoated carbide

B1

# Indexable insert drills

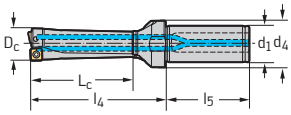
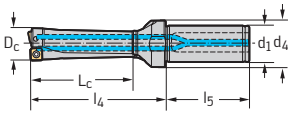
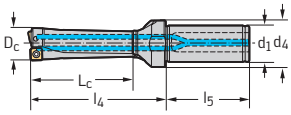
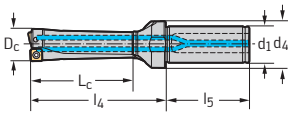
## D3120 mm

3×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | | |
| 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 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D3120-03-21.00F25-P22 | 21 | 63 | 88 | 56 | 25 | 32 | 0.36 | 2 | P284 . S-2N- .. |
| D3120-03-22.00F25-P22 | 22 | 66 | 91 | 56 | 25 | 32 | 0.42 | 2 | |
| D3120-03-23.00F25-P22 | 23 | 69 | 94 | 56 | 25 | 32 | 0.37 | 2 | |
| D3120-03-24.00F25-P22 | 24 | 72 | 97 | 56 | 25 | 32 | 0.42 | 2 | |
| D3120-03-25.00F25-P22 | 25 | 75 | 100 | 56 | 25 | 32 | 0.46 | 2 | |
|  Cylindrical shank with flat | | | | | | | | | |
| 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 | |
|  Cylindrical shank with flat | | | | | | | | | |
| D3120-03-31.00F32-P24 | 31 | 93 | 125 | 60 | 32 | 40 | 0.78 | 2 | P284 . S-4N- .. |
| D3120-03-32.00F32-P24 | 32 | 96 | 128 | 60 | 32 | 40 | 0.86 | 2 | |
| D3120-03-33.00F32-P24 | 33 | 99 | 131 | 60 | 32 | 40 | 0.86 | 2 | |
| D3120-03-34.00F32-P24 | 34 | 102 | 134 | 60 | 32 | 40 | 0.9 | 2 | |
| D3120-03-35.00F32-P24 | 35 | 105 | 137 | 60 | 32 | 40 | 0.95 | 2 | |
| D3120-03-36.00F32-P24 | 36 | 108 | 140 | 60 | 32 | 40 | 1 | 2 | |

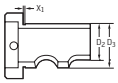
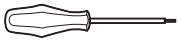
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [mm] | 16–20 | 21–25 | 26–30 | 29.5 | 31–36 |
|---|---|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>1.2 Nm | FS1456 (T9IP)<br>2 Nm | FS2181 (T15IP)<br>3 Nm | FS2119 (T15IP)<br>3 Nm | FS1456 (T9IP)<br>2 Nm |

## Accessories

| | $D_c$ [mm] | 16–20 | 21–25 | 26–36 | 26.5–29.5 |
|---|---|---|---|---|---|
|  | Eccentric sleeve, adj. range dia. -0.2 to +0.55 mm | FS722 | FS722 | FS723 | FS723 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2013 (T9IP) |
|  | Screwdriver | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1484 (T9IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P2840S-.N-A57 | 1–4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2840S-.N-E67 | 1–4 | | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | ● |
| | P2840S-.N-E77 | 1–4 | | | | | | | | | | | ● | ● | | |
| | P2841S-.N-A57 | 1–4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2841S-.N-E57 | 1–4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2841S-.N-E67 | 1–4 | | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | ● |

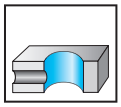
HC = Coated carbide
HW = Uncoated carbide

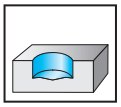
B1

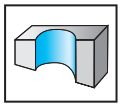
# Indexable insert drills

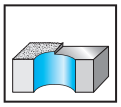
## D3120 mm

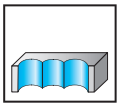








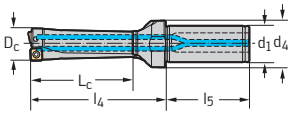
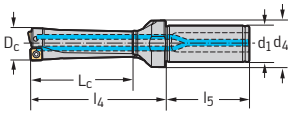




3×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | | |
| 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 | |
|  Cylindrical shank with flat | | | | | | | | | |
| 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 | |

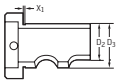
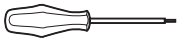
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [mm] | 37–42 | 43–50 |
|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2139 (T20IP)<br>5 Nm | FS2281 (T20IP)<br>5 Nm |

## Accessories

| | $D_c$ [mm] | 37–50 |
|---|---|---|
|  | Eccentric sleeve, adj. range dia. -0.2 to +0.55 mm | FS724 |
|  | Torque screwdriver, analog | FS2003 |
|  | Torque screwdriver, digital | FS2248 |
|  | Interchangeable blade | FS2015 (T20IP) |
|  | Screwdriver | FS1486 (T20IP) |

## Indexable inserts

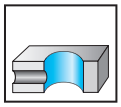
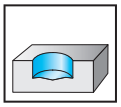
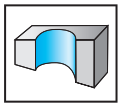
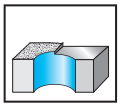
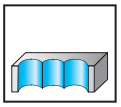
| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P2840S-.N-A57 | 5–6 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ | ☹ |
| | P2840S-.N-E67 | 5–6 | | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ | ☹ |
| | P2840S-.N-E77 | 5–6 | | | | | | | | | | | ☺ | ☺ | | |
| | P2841S-.N-A57 | 5–6 | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ | ☹ |
| | P2841S-.N-E57 | 5–6 | ☺ | ☺ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☺ | ☹ | | | ☹ | ☹ |
| | P2841S-.N-E67 | 5–6 | | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | | ☹ | | | ☹ | ☹ |

HC = Coated carbide
HW = Uncoated carbide

# Indexable insert drills

## D3120 mm

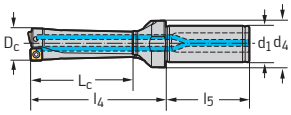


3×$D_c$ | Z=1

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

## Tool




Cylindrical 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 inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
| 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 | |
| D3120-03-55.00F40-P27 | 55 | 165 | 205 | 70 | 40 | 50 | 2.79 | 2 | |
| 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 | |

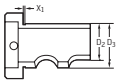
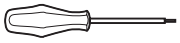
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [mm] | 50.5–58 |
|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2281 (T20IP)<br>5 Nm |

## Accessories

| | $D_c$ [mm] | 50.5–58 |
|---|---|---|
|  | Eccentric sleeve, adj. range dia. -0.2 to +0.55 mm | FS724 |
|  | Torque screwdriver, analog | FS2003 |
|  | Torque screwdriver, digital | FS2248 |
|  | Interchangeable blade | FS2015 (T20IP) |
|  | Screwdriver | FS1486 (T20IP) |

## Indexable inserts

| | Designation | Size | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P2840S-.N-A57 | 7 | | ● | ● | | | ● | | | | ● | | | ● | |
| | P2840S-.N-E67 | 7 | | ● | ● | ● | | ● | ● | | | ● | | | ● | ● |
| | P2840S-.N-E77 | 7 | | | | | | | | | | | ○ | ○ | | |
| | P2841S-.N-A57 | 7 | ○ | ● | ● | | ● | ● | | ● | ○ | ● | | | ● | |
| | P2841S-.N-E57 | 7 | | ○ | ● | | ● | ● | | ● | | ● | | | ● | |
| | P2841S-.N-E67 | 7 | | ● | ● | | ● | ● | | ● | | ● | | | ● | |

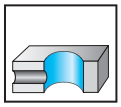
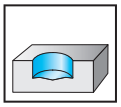
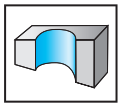
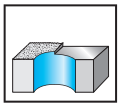
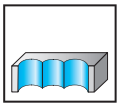
HC = Coated carbide
HW = Uncoated carbide

B1

# Indexable insert drills

## D3120 mm

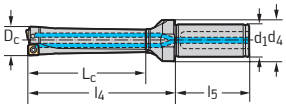
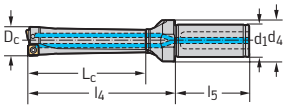
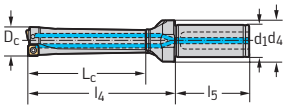
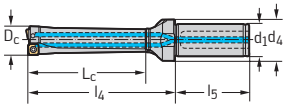
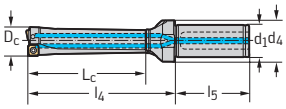


4×$D_c$ | Z=1

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

## Tool

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | D3120-04-16.00F25-P21 | 16 | 64 | 89 | 56 | 25 | 32 | 0.35 | 2 | P284 . S-1N- .. |
| | D3120-04-17.00F25-P21 | 17 | 68 | 93 | 56 | 25 | 32 | 0.33 | 2 | |
| | D3120-04-18.00F25-P21 | 18 | 72 | 97 | 56 | 25 | 32 | 0.35 | 2 | |
| | D3120-04-19.00F25-P21 | 19 | 76 | 101 | 56 | 25 | 32 | 0.36 | 2 | |
| | D3120-04-20.00F25-P21 | 20 | 80 | 105 | 56 | 25 | 32 | 0.38 | 2 | |
|  Cylindrical shank with flat | D3120-04-21.00F25-P22 | 21 | 84 | 109 | 56 | 25 | 32 | 0.38 | 2 | P284 . S-2N- .. |
| | D3120-04-22.00F25-P22 | 22 | 88 | 113 | 56 | 25 | 32 | 0.43 | 2 | |
| | D3120-04-23.00F25-P22 | 23 | 92 | 117 | 56 | 25 | 32 | 0.43 | 2 | |
| | D3120-04-24.00F25-P22 | 24 | 96 | 121 | 56 | 25 | 32 | 0.46 | 2 | |
| | D3120-04-25.00F25-P22 | 25 | 100 | 125 | 56 | 25 | 32 | 0.49 | 2 | |
|  Cylindrical shank with flat | D3120-04-26.00F32-P23 | 26 | 104 | 136 | 60 | 32 | 40 | 0.72 | 2 | P284 . S-3N- .. |
| | D3120-04-27.00F32-P23 | 27 | 108 | 140 | 60 | 32 | 40 | 0.76 | 2 | |
| | D3120-04-28.00F32-P23 | 28 | 112 | 144 | 60 | 32 | 40 | 0.8 | 2 | |
| | D3120-04-29.00F32-P23 | 29 | 116 | 148 | 60 | 32 | 40 | 0.84 | 2 | |
| | D3120-04-30.00F32-P23 | 30 | 120 | 152 | 60 | 32 | 40 | 0.88 | 2 | |
|  Cylindrical shank with flat | D3120-04-31.00F32-P24 | 31 | 124 | 156 | 60 | 32 | 40 | 0.86 | 2 | P284 . S-4N- .. |
| | D3120-04-32.00F32-P24 | 32 | 128 | 160 | 60 | 32 | 40 | 0.91 | 2 | |
| | D3120-04-33.00F32-P24 | 33 | 132 | 164 | 60 | 32 | 40 | 0.96 | 2 | |
| | D3120-04-34.00F32-P24 | 34 | 136 | 168 | 60 | 32 | 40 | 1.09 | 2 | |
| | D3120-04-35.00F32-P24 | 35 | 140 | 172 | 60 | 32 | 40 | 1.08 | 2 | |
| | D3120-04-36.00F32-P24 | 36 | 144 | 176 | 60 | 32 | 40 | 1.15 | 2 | |
|  Cylindrical shank with flat | D3120-04-37.00F40-P25 | 37 | 148 | 188 | 70 | 40 | 50 | 1.59 | 2 | P284 . S-5N- .. |
| | D3120-04-38.00F40-P25 | 38 | 152 | 192 | 70 | 40 | 50 | 1.66 | 2 | |
| | D3120-04-39.00F40-P25 | 39 | 156 | 196 | 70 | 40 | 50 | 1.74 | 2 | |
| | D3120-04-40.00F40-P25 | 40 | 160 | 200 | 70 | 40 | 50 | 1.89 | 2 | |
| | D3120-04-41.00F40-P25 | 41 | 164 | 204 | 70 | 40 | 50 | 1.9 | 2 | |
| | D3120-04-42.00F40-P25 | 42 | 168 | 208 | 70 | 40 | 50 | 1.99 | 2 | |

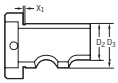
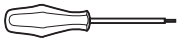
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [mm] | 16–20 | 21–25 | 26–30 | 31–36 | 37–42 |
|---|---|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>1.2 Nm | FS1456 (T9IP)<br>2 Nm | FS2181 (T15IP)<br>3 Nm | FS2119 (T15IP)<br>3 Nm | FS2139 (T20IP)<br>5 Nm |

## Accessories

| | $D_c$ [mm] | 16–20 | 21–25 | 26–36 | 37–42 |
|---|---|---|---|---|---|
|  | Eccentric sleeve, adj. range dia. -0.2 to +0.55 mm | FS722 | FS722 | FS723 | FS724 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 |
|  | Torque screwdriver, digital | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| | Designation | Size | P | | | | | M | | | K | | N | | S | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | | HC | | | HC | HC | HW | HC | |
| | | | WKP25S | WKP35S | WSP45G | WSP45S | WXP40 | WSP45G | WSP45S | WXP40 | WKP25S | WKP35S | WNN15 | WN15 | WSP45G | WSP45S |
|  | P2840S-.N-A57 | 1–5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2840S-.N-E67 | 1–5 | | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | ● |
| | P2840S-.N-E77 | 1–5 | | | | | | | | | | | ● | ● | | |
| | P2841S-.N-A57 | 1–5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2841S-.N-E57 | 1–5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2841S-.N-E67 | 1–5 | | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | ● |

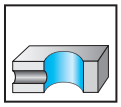
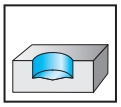
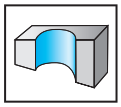
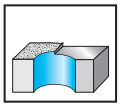
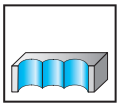
HC = Coated carbide
HW = Uncoated carbide

B1

# Indexable insert drills

## D3120 inch

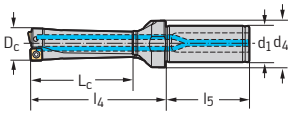
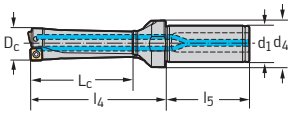
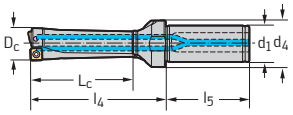
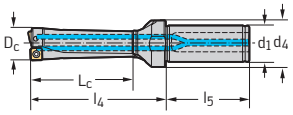
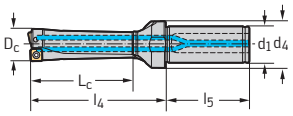


3×$D_c$ | Z=1

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

## Tool

| | Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | D3120.03-19.05F26-P21 | 0.750 | 2.252 | 3.256 | 2.281 | 1.000 | 1.378 | 2 | P284 . S-1N- .. |
|  Cylindrical shank with flat | D3120.03-22.23F26-P22 | 0.875 | 2.626 | 3.630 | 2.281 | 1.000 | 1.378 | 2 | P284 . S-2N- .. |
| | D3120.03-25.40F26-P22 | 1.000 | 3.000 | 4.004 | 2.281 | 1.000 | 1.378 | 2 | |
|  Cylindrical shank with flat | D3120.03-28.58F31-P23 | 1.125 | 3.378 | 4.634 | 2.281 | 1.250 | 1.622 | 2 | P284 . S-3N- .. |
|  Cylindrical shank with flat | D3120.03-31.75F31-P24 | 1.250 | 3.752 | 5.008 | 2.281 | 1.250 | 1.622 | 2 | P284 . S-4N- .. |
| | D3120.03-34.93F31-P24 | 1.375 | 4.126 | 5.382 | 2.281 | 1.250 | 1.622 | 2 | |
|  Cylindrical shank with flat | D3120.03-38.10F38-P25 | 1.500 | 4.500 | 6.075 | 2.688 | 1.500 | 1.929 | 2 | P284 . S-5N- .. |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

## Assembly parts

| | $D_c$ [inch] | 0.75 | 0.88–1 | 1.12 | 1.25–1.38 | 1.5 |
|---|---|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1454 (T8IP)<br>11 in lbs | FS1456 (T9IP)<br>18 in lbs | FS2181 (T15IP)<br>27 in lbs | FS2119 (T15IP)<br>27 in lbs | FS2139 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 0.75 | 0.88–1 | 1.12–1.38 | 1.5 |
|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 |
|  | Torque screwdriver, digital | FS2248 | FS2248 | FS2248 | FS2248 |
|  | Interchangeable blade | FS2012 (T8IP) | FS2013 (T9IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver | FS1483 (T8IP) | FS1484 (T9IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Indexable inserts

| | Designation | Size | P | | | | | M | | | K | | N | | S | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | | | | HC | | | HC | HC | HW | HC | |
| | | | WKP25S | WKP35S | WSP45G | WSP45S | WXP40 | WSP45G | WSP45S | WXP40 | WKP25S | WKP35S | WNN15 | WN15 | WSP45G | WSP45S |
|  | P2840S-.N-A57 | 1–5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2840S-.N-E67 | 1–5 | | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | ● |
| | P2840S-.N-E77 | 1–5 | | | | | | | | | | | ● | ● | | |
| | P2841S-.N-A57 | 1–5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2841S-.N-E57 | 1–5 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● |
| | P2841S-.N-E67 | 1–5 | | ● | ● | ● | ● | ● | ● | ● | | ● | | | ● | ● |

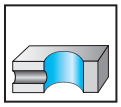
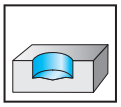
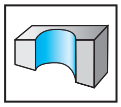
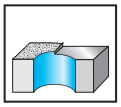
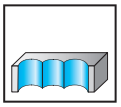
HC = Coated carbide
HW = Uncoated carbide

B1

# Insert drills

## B3212 mm

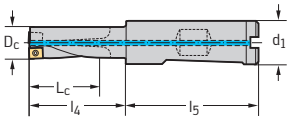


| $D_c$ 10–18 | 2×$D_c$ | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3212 | ●● | ●● | ●● | ●● | ●● | | |

## Tool




DIN 6535 HE. turned 180° DIN 6535 HB

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| B3212.DF.10.0.Z01.20R | 10 | 20 | 31 | 48 | 16 | 0.09 | 1<br>1 | LCMX050203-<br>..<br>LCMX050203-<br>.. |
| B3212.DF.10.2.Z01.20R | 10.2 | 20.4 | 31 | 48 | 16 | 0.09 | 1<br>1 | |
| B3212.DF.10.5.Z01.21R | 10.5 | 21 | 32 | 48 | 16 | 0.09 | 1<br>1 | |
| B3212.DF.11.0.Z01.22R | 11 | 22 | 34 | 48 | 16 | 0.09 | 1<br>1 | |
| B3212.DF.11.5.Z01.23R | 11.5 | 23 | 35 | 48 | 16 | 0.09 | 1<br>1 | |
| B3212.DF.11.7.Z01.23R | 11.7 | 23.4 | 35 | 48 | 16 | 0.09 | 1<br>1 | |
| B3212.DF.12.0.Z01.24R | 12 | 24 | 36 | 48 | 16 | 0.1 | 1<br>1 | |
| B3212.DF.12.5.Z01.25R | 12.5 | 25 | 38 | 48 | 16 | 0.1 | 1<br>1 | |
| B3212.DF.13.0.Z01.26R | 13 | 26 | 39 | 48 | 16 | 0.1 | 1<br>1 | |
| B3212.DF.13.5.Z01.27R | 13.5 | 27 | 40 | 48 | 16 | 0.1 | 1<br>1 | |
| B3212.DF.13.7.Z01.27R | 13.7 | 27.4 | 41 | 48 | 16 | 0.1 | 1<br>1 | |
| B3212.DF.14.0.Z01.28R | 14 | 28 | 42 | 48 | 16 | 0.1 | 1<br>1 | LCMX06T204- ..<br>LCMX06T204- .. |
| B3212.DF.14.5.Z01.29R | 14.5 | 29 | 43 | 48 | 16 | 0.11 | 1<br>1 | |
| B3212.DF.15.0.Z01.30R | 15 | 30 | 44 | 48 | 16 | 0.11 | 1<br>1 | |
| B3212.DF.15.5.Z01.31R | 15.5 | 31 | 45 | 48 | 16 | 0.11 | 1<br>1 | |
| B3212.DF.15.7.Z01.31R | 15.7 | 31.4 | 46 | 48 | 16 | 0.11 | 1<br>1 | |
| B3212.DF.16.0.Z01.32R | 16 | 32 | 47 | 48 | 16 | 0.11 | 1<br>1 | |
| B3212.DF.16.5.Z01.33R | 16.5 | 33 | 48 | 48 | 16 | 0.12 | 1<br>1 | |
| B3212.DF.17.0.Z01.34R | 17 | 34 | 49 | 48 | 16 | 0.12 | 1<br>1 | |
| B3212.DF.17.5.Z01.35R | 17.5 | 35 | 51 | 48 | 16 | 0.13 | 1<br>1 | |
| B3212.DF.18.0.Z01.36R | 18 | 36 | 52 | 48 | 16 | 0.13 | 1<br>1 | |

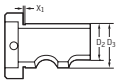
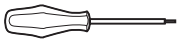
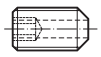
Possible X adjustment for drilling into solid material greater than the nominal diameter
X = +0.2 mm/-0.1 mm  ΔD = +0.4 mm/-0.2 mm
Important: A disc forms where through-holes are created by a rotating tool. This disc might then be ejected. Please take precautionary measures.
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

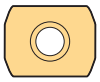
## Assembly parts

| | $D_c$ [mm] | 10–13.7 | 14–15.7 | 16–18 |
|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1012 (T6)<br>0.4 Nm | FS1004 (T7)<br>0.6 Nm | FS1020 (T7)<br>0.6 Nm |

## Accessories

| | $D_c$ [mm] | 10–13.7 | 14–18 |
|---|---|---|---|
|  | Eccentric sleeve | FS1207 | FS1207 |
|  | Screwdriver | FS1063 (T6) | FS309 (T7) |
|  | Clamping screw for collet chuck | FS1209 (SW 8) | FS1209 (SW 8) |
|  | Torque screwdriver, analog | FS2001 | FS2001 |
|  | Interchangeable blade | FS2005 (T6) | FS2006 (T7) |

## Indexable inserts

| | Designation | l<br>mm | $l_2$<br>mm | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | LCGX050203-E77 | 4 | 5.2 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX050203-B57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-D57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-E57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCGX06T204-E77 | 5.2 | 6.6 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX06T204-B57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-D57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-E57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |

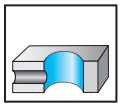
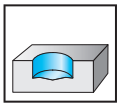
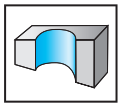
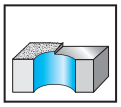
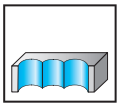
HC = Coated carbide
HW = Uncoated carbide

B1

# Insert drills

## B3212 inch

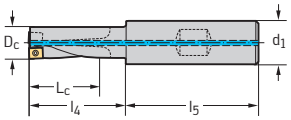


2×$D_c$ | Z=1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3212 | ●● | ●● | ●● | ●● | ●● | | |

## Tool




Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|
| B3212.U3F.0099.Z01.20R | 0.391 | 0.782 | 1.229 | 1.969 | 0.750 | 1<br>1 | LCMX050203- ..<br>LCMX050203- .. |
| B3212.U3F.0103.Z01.21R | 0.406 | 0.812 | 1.275 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0107.Z01.21R | 0.421 | 0.842 | 1.321 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0111.Z01.22R | 0.437 | 0.874 | 1.370 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0115.Z01.23R | 0.453 | 0.906 | 1.420 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0119.Z01.24R | 0.469 | 0.938 | 1.469 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0123.Z01.25R | 0.484 | 0.968 | 1.516 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0127.Z01.25R | 0.500 | 1.000 | 1.565 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0131.Z01.26R | 0.515 | 1.030 | 1.612 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0135.Z01.27R | 0.531 | 1.062 | 1.661 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0139.Z01.28R | 0.547 | 1.094 | 1.722 | 1.969 | 0.750 | 1<br>1 | LCMX06T204- ..<br>LCMX06T204- .. |
| B3212.U3F.0143.Z01.29R | 0.562 | 1.124 | 1.768 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0155.Z01.31R | 0.609 | 1.218 | 1.914 | 1.969 | 0.750 | 1<br>1 | |
| B3212.U3F.0159.Z01.32R | 0.625 | 1.250 | 1.963 | 1.969 | 0.750 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

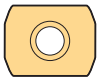
## Assembly parts

| | $D_c$ [inch] | 0.39–0.53 | 0.55–0.62 |
|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1012 (T6)<br>4 in lbs | FS1004 (T7)<br>5 in lbs |

## Accessories

| | $D_c$ [inch] | 0.39–0.53 | 0.55–0.62 |
|---|---|---|---|
|  | Screwdriver | FS1063 (T6) | FS309 (T7) |
|  | Torque screwdriver, analog | FS2002 | FS2002 |
|  | Interchangeable blade | FS2005 (T6) | FS2006 (T7) |

## Indexable inserts

| | Designation | l<br>mm | $l_2$<br>mm | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | LCGX050203-E77 | 4 | 5.2 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX050203-B57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-D57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-E57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCGX06T204-E77 | 5.2 | 6.6 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX06T204-B57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-D57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-E57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |

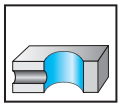
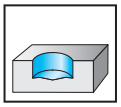
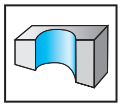
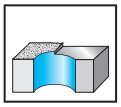
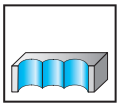
HC = Coated carbide
HW = Uncoated carbide

B1

# Insert drills

## B3213 inch

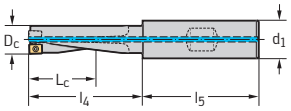


3×$D_c$ | Z=1

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3213 | ●● | ●● | ●● | ●● | ●● | | |

## Tool




Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | No. of inserts | Type |
|---|---|---|---|---|---|---|---|
| B3213.U3F.0099.Z01.30R | 0.391 | 1.173 | 1.585 | 1.969 | 0.750 | 1<br>1 | LCMX050203- ..<br>LCMX050203- .. |
| B3213.U3F.0103.Z01.31R | 0.406 | 1.218 | 1.644 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0107.Z01.32R | 0.421 | 1.263 | 1.704 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0111.Z01.33R | 0.437 | 1.311 | 1.768 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0115.Z01.35R | 0.453 | 1.359 | 1.832 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0119.Z01.36R | 0.469 | 1.407 | 1.896 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0123.Z01.37R | 0.484 | 1.452 | 1.956 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0127.Z01.38R | 0.500 | 1.500 | 2.020 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0131.Z01.39R | 0.515 | 1.545 | 2.081 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0135.Z01.40R | 0.531 | 1.593 | 2.144 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0139.Z01.42R | 0.547 | 1.641 | 2.220 | 1.969 | 0.750 | 1<br>1 | LCMX06T204- ..<br>LCMX06T204- .. |
| B3213.U3F.0143.Z01.43R | 0.562 | 1.686 | 2.279 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0147.Z01.44R | 0.578 | 1.734 | 2.344 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0155.Z01.46R | 0.609 | 1.827 | 2.468 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0159.Z01.48R | 0.625 | 1.875 | 2.532 | 1.969 | 0.750 | 1<br>1 | |
| B3213.U3F.0163.Z01.49R | 0.64 | 1.92 | 2.592 | 1.969 | 0.750 | 1<br>1 | |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

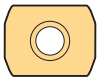
## Assembly parts

| | $D_c$ [inch] | 0.39–0.53 | 0.55–0.64 |
|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1012 (T6)<br>4 in lbs | FS1004 (T7)<br>5 in lbs |

## Accessories

| | $D_c$ [inch] | 0.39–0.53 | 0.55–0.64 |
|---|---|---|---|
|  | Screwdriver | FS1063 (T6) | FS309 (T7) |
|  | Torque screwdriver, analog | FS2002 | FS2002 |
|  | Interchangeable blade | FS2005 (T6) | FS2006 (T7) |

## Indexable inserts

| | Designation | l<br>mm | $l_2$<br>mm | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | LCGX050203-E77 | 4 | 5.2 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX050203-B57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-D57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-E57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCGX06T204-E77 | 5.2 | 6.6 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX06T204-B57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-D57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-E57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |

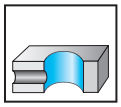
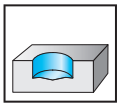
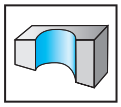
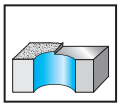
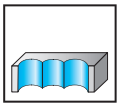
HC = Coated carbide
HW = Uncoated carbide

B1

# Insert drills

## B3213 mm

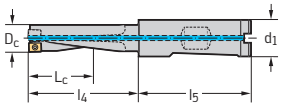


| $D_c$ 10–18 | 3×$D_c$ | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3213 | ●● | ●● | ●● | ●● | ●● | | |

## Tool




DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| B3213.DF.10,0.Z01.30R | 10 | 30 | 41 | 48 | 16 | 0.09 | 1<br>1 | LCMX050203-<br>..<br>LCMX050203-<br>.. |
| B3213.DF.10,2.Z01.30R | 10.2 | 30.6 | 41 | 48 | 16 | 0.09 | 1<br>1 | |
| B3213.DF.10,5.Z01.31R | 10.5 | 31.5 | 43 | 48 | 16 | 0.09 | 1<br>1 | |
| B3213.DF.11,0.Z01.33R | 11 | 33 | 45 | 48 | 16 | 0.1 | 1<br>1 | |
| B3213.DF.11,5.Z01.34R | 11.5 | 34.5 | 47 | 48 | 16 | 0.1 | 1<br>1 | |
| B3213.DF.11,7.Z01.35R | 11.7 | 35.1 | 48 | 48 | 16 | 0.1 | 1<br>1 | |
| B3213.DF.12,0.Z01.36R | 12 | 36 | 48 | 48 | 16 | 0.1 | 1<br>1 | |
| B3213.DF.12,5.Z01.37R | 12.5 | 37.5 | 50 | 48 | 16 | 0.1 | 1<br>1 | |
| B3213.DF.13,0.Z01.39R | 13 | 39 | 52 | 48 | 16 | 0.11 | 1<br>1 | |
| B3213.DF.13,5.Z01.40R | 13.5 | 40.5 | 54 | 48 | 16 | 0.11 | 1<br>1 | |
| B3213.DF.13,7.Z01.41R | 13.7 | 41.1 | 55 | 48 | 16 | 0.11 | 1<br>1 | |
| B3213.DF.14,0.Z01.42R | 14 | 42 | 56 | 48 | 16 | 0.11 | 1<br>1 | LCMX06T204- ..<br>LCMX06T204- .. |
| B3213.DF.14,5.Z01.43R | 14.5 | 43.5 | 57 | 48 | 16 | 0.11 | 1<br>1 | |
| B3213.DF.15,0.Z01.45R | 15 | 45 | 59 | 48 | 16 | 0.12 | 1<br>1 | |
| B3213.DF.15,5.Z01.46R | 15.5 | 46.5 | 61 | 48 | 16 | 0.12 | 1<br>1 | |
| B3213.DF.15,7.Z01.47R | 15.7 | 47 | 62 | 48 | 16 | 0.13 | 1<br>1 | |
| B3213.DF.16,0.Z01.48R | 16 | 48 | 63 | 48 | 16 | 0.12 | 1<br>1 | |
| B3213.DF.16,5.Z01.49R | 16.5 | 49.5 | 65 | 48 | 16 | 0.14 | 1<br>1 | |
| B3213.DF.17,0.Z01.51R | 17 | 51 | 66 | 48 | 16 | 0.14 | 1<br>1 | |
| B3213.DF.17,5.Z01.52R | 17.5 | 52.5 | 68 | 48 | 16 | 0.14 | 1<br>1 | |
| B3213.DF.18,0.Z01.54R | 18 | 54 | 70 | 48 | 16 | 0.15 | 1<br>1 | |

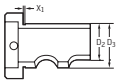
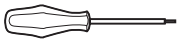
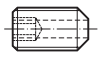
Possible X adjustment for drilling into solid material greater than the nominal diameter
X = +0.2 mm/-0.1 mm  ΔD = +0.4 mm/-0.2 mm
Important: A disc forms where through-holes are created by a rotating tool. This disc might then be ejected. Please take precautionary measures.
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

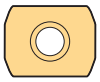
## Assembly parts

| | $D_c$ [mm] | 10–13.7 | 14–15.7 | 16–18 |
|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1012 (T6)<br>0.4 Nm | FS1004 (T7)<br>0.6 Nm | FS1020 (T7)<br>0.6 Nm |

## Accessories

| | $D_c$ [mm] | 10–13.5 | 13.7 | 14–18 |
|---|---|---|---|---|
|  | Eccentric sleeve | FS1207 | FS1207 | FS1207 |
|  | Screwdriver | FS1063 (T6) | FS309 (T7) | FS1063 (T6) |
|  | Clamping screw for collet chuck | FS1209 (SW 8) | FS1209 (SW 8) | FS1209 (SW 8) |
|  | Torque screwdriver, analog | FS2001 | FS2001 | FS2001 |
|  | Interchangeable blade | FS2005 (T6) | FS2006 (T7) | FS2006 (T7) |

## Indexable inserts

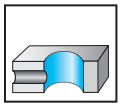
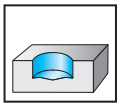
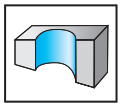
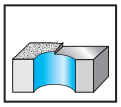
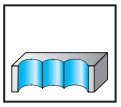
| | Designation | l<br>mm | $l_2$<br>mm | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | LCGX050203-E77 | 4 | 5.2 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX050203-B57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-D57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-E57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCGX06T204-E77 | 5.2 | 6.6 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX06T204-B57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-D57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-E57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |

HC = Coated carbide
HW = Uncoated carbide

# Insert drills

## B3214 mm

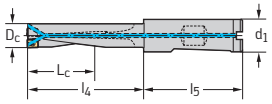
B1

| $D_c$ 10–18 | 4×$D_c$ | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3214 | | | ●● | ●● | | | |

## Tool




DIN 6535 HE, turned 180° DIN 6535 HB

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | kg | No. of inserts | Type |
|---|---|---|---|---|---|---|---|---|
| B3214.DF.10,0.Z01.40R | 10 | 40 | 51 | 48 | 16 | 0.09 | 1<br>1 | LCMX050203-<br>..<br>LCMX050203-<br>.. |
| B3214.DF.10,5.Z01.42R | 10.5 | 42 | 53 | 48 | 16 | 0.1 | 1<br>1 | |
| B3214.DF.11,0.Z01.44R | 11 | 44 | 56 | 48 | 16 | 0.1 | 1<br>1 | |
| B3214.DF.11,5.Z01.46R | 11.5 | 46 | 58 | 48 | 16 | 0.1 | 1<br>1 | |
| B3214.DF.12,0.Z01.48R | 12 | 48 | 60 | 48 | 16 | 0.11 | 1<br>1 | |
| B3214.DF.12,5.Z01.50R | 12.5 | 50 | 62 | 48 | 16 | 0.11 | 1<br>1 | |
| B3214.DF.13,0.Z01.52R | 13 | 52 | 65 | 48 | 16 | 0.11 | 1<br>1 | |
| B3214.DF.13,5.Z01.54R | 13.5 | 54 | 67 | 48 | 16 | 0.12 | 1<br>1 | |
| B3214.DF.14,0.Z01.56R | 14 | 56 | 70 | 48 | 16 | 0.12 | 1<br>1 | LCMX06T204- ..<br>LCMX06T204- .. |
| B3214.DF.14,5.Z01.58R | 14.5 | 58 | 72 | 48 | 16 | 0.13 | 1<br>1 | |
| B3214.DF.15,0.Z01.60R | 15 | 60 | 74 | 48 | 16 | 0.13 | 1<br>1 | |
| B3214.DF.15,5.Z01.62R | 15.5 | 62 | 77 | 48 | 16 | 0.14 | 1<br>1 | |
| B3214.DF.16,0.Z01.64R | 16 | 64 | 78 | 48 | 16 | 0.14 | 1<br>1 | |
| B3214.DF.16,5.Z01.66R | 16.5 | 66 | 82 | 48 | 16 | 0.17 | 1<br>1 | |
| B3214.DF.17,5.Z01.70R | 17.5 | 70 | 85 | 48 | 16 | 0.17 | 1<br>1 | |
| B3214.DF.18,0.Z01.72R | 18 | 72 | 88 | 48 | 16 | 0.17 | 1<br>1 | |

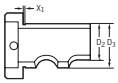
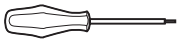
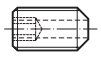
Possible X adjustment for drilling into solid material greater than the nominal diameter
X = +0.2 mm/-0.1 mm  ΔD = +0.4 mm/-0.2 mm
Important: A disc forms where through-holes are created by a rotating tool. This disc might then be ejected. Please take precautionary measures.
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

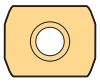
## Assembly parts

| | $D_c$ [mm] | 10–13.5 | 14–15.5 | 16–18 |
|---|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS1012 (T6)<br>0.4 Nm | FS1004 (T7)<br>0.6 Nm | FS1020 (T7)<br>0.6 Nm |

## Accessories

| | $D_c$ [mm] | 10–13.5 | 14–18 |
|---|---|---|---|
|  | Eccentric sleeve | FS1207 | FS1207 |
|  | Screwdriver | FS1063 (T6) | FS309 (T7) |
|  | Clamping screw for collet chuck | FS1209 (SW 8) | FS1209 (SW 8) |
|  | Torque screwdriver, analog | FS2001 | FS2001 |
|  | Interchangeable blade | FS2005 (T6) | FS2006 (T7) |

## Indexable inserts

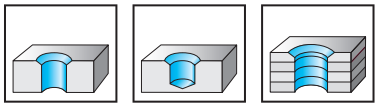
| | Designation | l<br>mm | $l_2$<br>mm | P HC WKP25S | P HC WKP35S | P HC WSP45G | P HC WSP45S | P HC WXP40 | M HC WSP45G | M HC WSP45S | M HC WXP40 | K HC WKP25S | K HC WKP35S | N HC WNN15 | N HW WN15 | S HC WSP45G | S HC WSP45S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | LCGX050203-E77 | 4 | 5.2 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX050203-B57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX050203-D57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | | | ☹ | ☹ |
| | LCMX050203-E57 | 4 | 5.2 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | | | ☹ | ☹ |
| | LCGX06T204-E77 | 5.2 | 6.6 | | | | | | | | | | | ☺ | ☹ | | |
| | LCMX06T204-B57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | 😐 | | | ☹ | ☹ |
| | LCMX06T204-D57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | | | ☹ | ☹ |
| | LCMX06T204-E57 | 5.2 | 6.6 | ☺ | 😐 | ☹ | ☹ | ☹ | ☹ | ☹ | ☹ | 😐 | ☹ | | | ☹ | ☹ |

HC = Coated carbide
HW = Uncoated carbide

# Exchangeable-tip drills

## D4240 mm

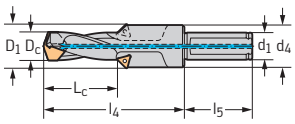
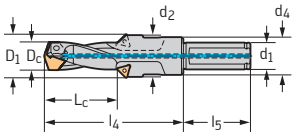




| $D_c$ 12–29,99 | 2,5×$D_c$ | 90° | 140° | Z=2 |
|---|---|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4240 | ●● | ●● | ●● | ●● | ●● | | |

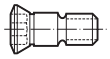
## Tool

| Designation | $D_c$ mm | $D_1$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  Cylindrical shank with flat | | | | | | | | | | | |
| D4240-02-12.00F20-A | 12 | 23.7 | 36.5 | 69.28 | 50 | 20 | 30 | 0.22 | 1<br>2 | A | P600 . -D12. ..<br>TC .. 110208 |
| D4240-02-14.00F20-B | 14 | 25.7 | 40.6 | 76 | 50 | 20 | 30 | 0.26 | 1<br>2 | B | P600 . -D14. ..<br>TC .. 110208 |
| D4240-02-15.00F20-B | 15 | 26.7 | 47.8 | 81.09 | 50 | 20 | 30 | 0.25 | 1<br>2 | B | P600 . -D15. ..<br>TC .. 110208 |
| D4240-02-17.00F20-C | 17 | 28.7 | 48.2 | 87.64 | 50 | 20 | 30 | 0.3 | 1<br>2 | C | P600 . -D17. ..<br>TC .. 110208 |
| D4240-02-19.00F20-D | 19 | 30.7 | 53.4 | 96.91 | 50 | 20 | 30 | 0.34 | 1<br>2 | D | P600 . -D19. ..<br>TC .. 110208 |
|  Cylindrical shank with flat | | | | | | | | | | | |
| D4240-02-21.00F20-E | 21 | 32.7 | 54.6 | 103.27 | 50 | 20 | 30 | 0.37 | 1<br>2 | E | P600 . -D21. ..<br>TC .. 110208 |
| D4240-02-24.00F25-G | 24 | 43.4 | 61.7 | 117.36 | 56 | 25 | 35 | 0.63 | 1<br>2 | G | P600 . -D24. ..<br>TC .. 16T3 .. |
| D4240-02-26.00F25-H | 26 | 45.4 | 67.3 | 125.55 | 56 | 25 | 35 | 0.68 | 1<br>2 | H | P600 . -D26. ..<br>TC .. 16T3 .. |
| D4240-02-29.00F32-J | 29 | 48.4 | 69.2 | 134.9 | 60 | 32 | 42 | 1.08 | 1<br>2 | J | P600 . -D29. ..<br>TC .. 16T3 .. |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

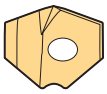
## Assembly parts

| | $D_c$ [mm] | 12 | 14–15 | 17 | 19 | 21 | 24 | 26 | 29 |
|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for P600. drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm | FS1403 (T25IP)<br>5.5 Nm | FS1404 (T25IP)<br>5.5 Nm |
|  | Clamping screw for TC.. chamfer insert<br>Tightening torque | FS2061 (T7IP)<br>0.9 Nm | FS2061 (T7IP)<br>0.9 Nm | FS2061 (T7IP)<br>0.9 Nm | FS2061 (T7IP)<br>0.9 Nm | FS2061 (T7IP)<br>0.9 Nm | FS2063 (T15IP)<br>3 Nm | FS2063 (T15IP)<br>3 Nm | FS2063 (T15IP)<br>3 Nm |

## Accessories

| | $D_c$ [mm] | 12 | 14–17 | 19 | 21–24 | 26–29 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2041 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

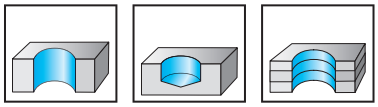
| | Designation | $D_c$ mm | P | P HC | P HC | M HC | K HC | N HC | S HC |
|---|---|---|---|---|---|---|---|---|---|
| | | | WMP35 | WPP25 | WPP45C | WMP35 | WKK45C | WNN25 | WMP35 |
|  | P6001-D.. | 12–29.8 | | | ● | | | | |
| | P6003-D.. | 12–29.8 | ● | | | ● | | | ● |
| | P6004-D.. | 12–29.5 | | | | | | ● | |
| | P6005-D.. | 12–29.8 | | | | | ● | | |
| | P6006-D.. | 12–29.8 | | ● | | | | | |

HC = Coated carbide

# Exchangeable-tip drills

## D4140 mm

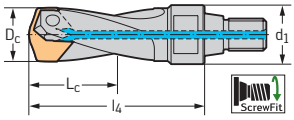




| $D_c$ 12–25,99 | 1,3×$D_c$ | 140° | Z=2 |
|---|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ●● | | |

## Tool



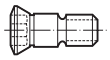

ScrewFit

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $d_1$ | Z | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140-01-12.00T14-A | 12 | 18 | 47.6 | T14 | 2 | 0.05 | 1 | A | P600 . -D12. .. |
| D4140-01-13.00T14-A | 13 | 19 | 49.9 | T14 | 2 | 0.05 | 1 | A | P600 . -D13. .. |
| D4140-01-14.00T14-B | 14 | 21 | 52.2 | T14 | 2 | 0.06 | 1 | B | P600 . -D14. .. |
| D4140-01-15.00T18-B | 15 | 22 | 54.5 | T18 | 2 | 0.08 | 1 | B | P600 . -D15. .. |
| D4140-01-16.00T18-C | 16 | 24 | 56.8 | T18 | 2 | 0.08 | 1 | C | P600 . -D16. .. |
| D4140-01-17.00T18-C | 17 | 25 | 59.1 | T18 | 2 | 0.09 | 1 | C | P600 . -D17. .. |
| D4140-01-18.00T18-D | 18 | 27 | 61.4 | T18 | 2 | 0.1 | 1 | D | P600 . -D18. .. |
| D4140-01-19.00T22-D | 19 | 28 | 63.7 | T22 | 2 | 0.12 | 1 | D | P600 . -D19. .. |
| D4140-01-20.00T22-E | 20 | 30 | 66 | T22 | 2 | 0.13 | 1 | E | P600 . -D20. .. |
| D4140-01-21.00T22-E | 21 | 31 | 68.3 | T22 | 2 | 0.14 | 1 | E | P600 . -D21. .. |
| D4140-01-22.00T22-F | 22 | 33 | 71.6 | T22 | 2 | 0.16 | 1 | F | P600 . -D22. .. |
| D4140-01-23.00T28-F | 23 | 34 | 73.9 | T28 | 2 | 0.23 | 1 | F | P600 . -D23. .. |
| D4140-01-24.00T28-G | 24 | 36 | 76.2 | T28 | 2 | 0.24 | 1 | G | P600 . -D24. .. |
| D4140-01-25.00T28-G | 25 | 37 | 78.5 | T28 | 2 | 0.25 | 1 | G | P600 . -D25. .. |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

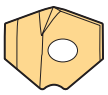
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 |
|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18–19 | 20–25 |
|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Interchangeable inserts

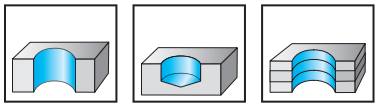
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–25.8 | | | 😐 | | | | |
| | P6003-D.. | 12–25.8 | 😟 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–25.5 | | | | | | 😐 | |
| | P6005-D.. | 12–25.8 | | | | | 😟 | | |
| | P6006-D.. | 12–25.8 | | 🙂 | | | | | |

HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😟

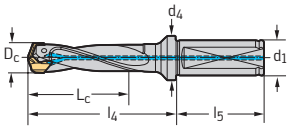
# Exchangeable-tip drills

## D4140 mm




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ●● | | |

## Tool



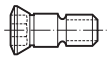

Cylindrical shank with flat

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-03-12.00F16-A | 12 | 36 | 68 | 48 | 16 | 20 | 0.13 | 1 | A | P600 . -D12, .. |
| D4140-03-13.00F16-A | 13 | 41 | 72 | 48 | 16 | 20 | 0.15 | 1 | A | P600 . -D13, .. |
| D4140-03-14.00F16-B | 14 | 45 | 76 | 48 | 16 | 20 | 0.14 | 1 | B | P600 . -D14, .. |
| D4140-03-15.00F16-B | 15 | 48 | 80 | 48 | 16 | 20 | 0.15 | 1 | B | P600 . -D15, .. |
| D4140-03-16.00F20-C | 16 | 51 | 84 | 50 | 20 | 25 | 0.23 | 1 | C | P600 . -D16, .. |
| D4140-03-17.00F20-C | 17 | 54 | 88 | 50 | 20 | 25 | 0.24 | 1 | C | P600 . -D17, .. |
| D4140-03-18.00F20-D | 18 | 57 | 92 | 50 | 20 | 25 | 0.25 | 1 | D | P600 . -D18, .. |
| D4140-03-19.00F20-D | 19 | 61 | 96 | 50 | 20 | 25 | 0.26 | 1 | D | P600 . -D19, .. |
| D4140-03-20.00F20-E | 20 | 64 | 100 | 50 | 20 | 25 | 0.28 | 1 | E | P600 . -D20, .. |
| D4140-03-21.00F20-E | 21 | 67 | 104 | 50 | 20 | 25 | 0.29 | 1 | E | P600 . -D21, .. |
| D4140-03-22.00F25-F | 22 | 70 | 109 | 56 | 25 | 32 | 0.44 | 1 | F | P600 . -D22, .. |
| D4140-03-23.00F25-F | 23 | 73 | 113 | 56 | 25 | 32 | 0.46 | 1 | F | P600 . -D23, .. |
| D4140-03-24.00F25-G | 24 | 76 | 117 | 56 | 25 | 32 | 0.48 | 1 | G | P600 . -D24, .. |
| D4140-03-25.00F25-G | 25 | 80 | 121 | 56 | 25 | 32 | 0.5 | 1 | G | P600 . -D25, .. |
| D4140-03-26.00F25-H | 26 | 83 | 125 | 56 | 25 | 32 | 0.52 | 1 | H | P600 . -D26, .. |
| D4140-03-27.00F25-H | 27 | 86 | 129 | 56 | 25 | 32 | 0.53 | 1 | H | P600 . -D27, .. |
| D4140-03-28.00F32-J | 28 | 89 | 134 | 60 | 32 | 40 | 0.8 | 1 | J | P600 . -D28, .. |
| D4140-03-29.00F32-J | 29 | 92 | 138 | 60 | 32 | 40 | 0.86 | 1 | J | P600 . -D29, .. |
| D4140-03-30.00F32-K | 30 | 95 | 142 | 60 | 32 | 40 | 0.89 | 1 | K | P600 . -D30, .. |
| D4140-03-31.00F32-K | 31 | 99 | 146 | 60 | 32 | 40 | 0.92 | 1 | K | P600 . -D31, .. |
| D4140-03-32.00F40-M | 32 | 102 | 150 | 70 | 40 | 50 | 1.31 | 1 | M | P600 . -D32, .. |
| D4140-03-33.00F40-M | 33 | 105 | 154 | 70 | 40 | 50 | 1.38 | 1 | M | P600 . -D33, .. |
| D4140-03-34.00F40-N | 34 | 108 | 158 | 70 | 40 | 50 | 1.37 | 1 | N | P600 . -D34, .. |
| D4140-03-35.00F40-N | 35 | 111 | 162 | 70 | 40 | 50 | 1.43 | 1 | N | P600 . -D35, .. |
| D4140-03-36.00F40-P | 36 | 115 | 166 | 70 | 40 | 50 | 1.46 | 1 | P | P600 . -D36, .. |
| D4140-03-37.00F40-P | 37 | 118 | 170 | 70 | 40 | 50 | 1.54 | 1 | P | P600 . -D37, .. |

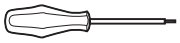
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

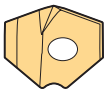
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 | 26–27 | 28–33 | 34–37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm | FS1403 (T25IP)<br>5.5 Nm | FS1404 (T25IP)<br>5.5 Nm | FS2159 (T25IP)<br>5.5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18–19 | 20–25 | 26–37 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2041 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | 😐 | | | | |
| | P6003-D.. | 12–38 | 😟 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–31.5 | | | | | | 😐 | |
| | P6005-D.. | 12–38 | | | | | 😟 | | |
| | P6006-D.. | 12–38 | | 😊 | | | | | |

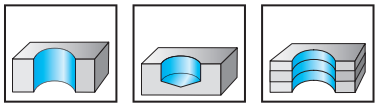
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😐 → Moderate = 😟

# Exchangeable-tip drills

## D4140 mm

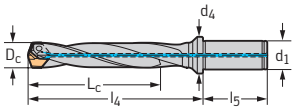
B1



5×$D_c$ | 140° | Z=2

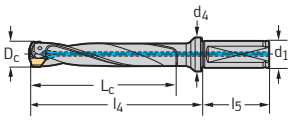
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ● | | |

## Tool




Cylindrical shank with collar

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-05-12.00A16-A | 12 | 62 | 92 | 48 | 16 | 20 | 0.16 | 1 | A | P600 . -D12, .. |
| D4140-05-13.00A16-A | 13 | 67 | 98 | 48 | 16 | 20 | 0.16 | 1 | A | P600 . -D13, .. |
| D4140-05-14.00A16-B | 14 | 73 | 104 | 48 | 16 | 20 | 0.17 | 1 | B | P600 . -D14, .. |
| D4140-05-15.00A16-B | 15 | 78 | 110 | 48 | 16 | 20 | 0.16 | 1 | B | P600 . -D15, .. |
| D4140-05-16.00A20-C | 16 | 83 | 116 | 50 | 20 | 25 | 0.26 | 1 | C | P600 . -D16, .. |
| D4140-05-17.00A20-C | 17 | 88 | 122 | 50 | 20 | 25 | 0.26 | 1 | C | P600 . -D17, .. |
| D4140-05-18.00A20-D | 18 | 93 | 128 | 50 | 20 | 25 | 0.3 | 1 | D | P600 . -D18, .. |
| D4140-05-19.00A20-D | 19 | 98 | 134 | 50 | 20 | 25 | 0.29 | 1 | D | P600 . -D19, .. |
| D4140-05-20.00A20-E | 20 | 104 | 140 | 50 | 20 | 25 | 0.34 | 1 | E | P600 . -D20, .. |
| D4140-05-21.00A20-E | 21 | 109 | 146 | 50 | 20 | 25 | 0.38 | 1 | E | P600 . -D21, .. |
| D4140-05-22.00A25-F | 22 | 114 | 153 | 56 | 25 | 32 | 0.53 | 1 | F | P600 . -D22, .. |
| D4140-05-23.00A25-F | 23 | 119 | 159 | 56 | 25 | 32 | 0.56 | 1 | F | P600 . -D23, .. |
| D4140-05-24.00A25-G | 24 | 124 | 165 | 56 | 25 | 32 | 0.59 | 1 | G | P600 . -D24, .. |
| D4140-05-25.00A25-G | 25 | 130 | 171 | 56 | 25 | 32 | 0.62 | 1 | G | P600 . -D25, .. |
| D4140-05-26.00A25-H | 26 | 135 | 177 | 56 | 25 | 32 | 0.6 | 1 | H | P600 . -D26, .. |
| D4140-05-27.00A25-H | 27 | 140 | 183 | 56 | 25 | 32 | 0.7 | 1 | H | P600 . -D27, .. |
| D4140-05-28.00A32-J | 28 | 145 | 190 | 60 | 32 | 40 | 0.8 | 1 | J | P600 . -D28, .. |
| D4140-05-29.00A32-J | 29 | 150 | 196 | 60 | 32 | 40 | 1 | 1 | J | P600 . -D29, .. |
| D4140-05-30.00A32-K | 30 | 155 | 202 | 60 | 32 | 40 | 1 | 1 | K | P600 . -D30, .. |
| D4140-05-31.00A32-K | 31 | 161 | 208 | 60 | 32 | 40 | 1.14 | 1 | K | P600 . -D31, .. |



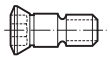

Cylindrical shank with flat

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-05-12.00F16-A | 12 | 62 | 92 | 48 | 16 | 20 | 0.14 | 1 | A | P600 . -D12, .. |
| D4140-05-13.00F16-A | 13 | 67 | 98 | 48 | 16 | 20 | 0.15 | 1 | A | P600 . -D13, .. |
| D4140-05-14.00F16-B | 14 | 73 | 104 | 48 | 16 | 20 | 0.17 | 1 | B | P600 . -D14, .. |
| D4140-05-15.00F16-B | 15 | 78 | 110 | 48 | 16 | 20 | 0.18 | 1 | B | P600 . -D15, .. |
| D4140-05-16.00F20-C | 16 | 83 | 116 | 50 | 20 | 25 | 0.26 | 1 | C | P600 . -D16, .. |
| D4140-05-17.00F20-C | 17 | 88 | 122 | 50 | 20 | 25 | 0.28 | 1 | C | P600 . -D17, .. |
| D4140-05-18.00F20-D | 18 | 93 | 128 | 50 | 20 | 25 | 0.29 | 1 | D | P600 . -D18, .. |
| D4140-05-19.00F20-D | 19 | 98 | 134 | 50 | 20 | 25 | 0.31 | 1 | D | P600 . -D19, .. |
| D4140-05-20.00F20-E | 20 | 104 | 140 | 50 | 20 | 25 | 0.3 | 1 | E | P600 . -D20, .. |
| D4140-05-21.00F20-E | 21 | 109 | 146 | 50 | 20 | 25 | 0.37 | 1 | E | P600 . -D21, .. |
| D4140-05-22.00F25-F | 22 | 114 | 153 | 56 | 25 | 32 | 0.53 | 1 | F | P600 . -D22, .. |
| D4140-05-23.00F25-F | 23 | 119 | 159 | 56 | 25 | 32 | 0.56 | 1 | F | P600 . -D23, .. |
| D4140-05-24.00F25-G | 24 | 124 | 165 | 56 | 25 | 32 | 0.59 | 1 | G | P600 . -D24, .. |
| D4140-05-25.00F25-G | 25 | 130 | 171 | 56 | 25 | 32 | 0.62 | 1 | G | P600 . -D25, .. |
| D4140-05-26.00F25-H | 26 | 135 | 177 | 56 | 25 | 32 | 0.65 | 1 | H | P600 . -D26, .. |

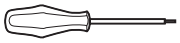
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

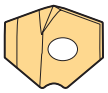
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 | 26–27 | 28–33 | 34–37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm | FS1403 (T25IP)<br>5.5 Nm | FS1404 (T25IP)<br>5.5 Nm | FS2159 (T25IP)<br>5.5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18–19 | 20–25 | 26–37 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2041 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

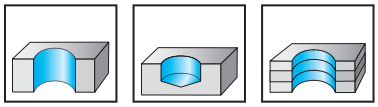
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | 😐 | | | | |
| | P6003-D.. | 12–38 | 😠 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–31.5 | | | | | | 😐 | |
| | P6005-D.. | 12–38 | | | | | 😠 | | |
| | P6006-D.. | 12–38 | | 😊 | | | | | |

HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😐 → Moderate = 😠

# Exchangeable-tip drills

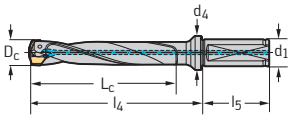
## D4140 mm



5×$D_c$ | 140° | Z=2

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ● | | |

## Tool



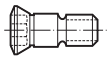

Cylindrical shank with flat

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-05-27.00F25-H | 27 | 140 | 183 | 56 | 25 | 32 | 0.69 | 1 | H | P600 . -D27, .. |
| D4140-05-28.00F32-J | 28 | 145 | 190 | 60 | 32 | 40 | 0.97 | 1 | J | P600 . -D28, .. |
| D4140-05-29.00F32-J | 29 | 150 | 196 | 60 | 32 | 40 | 1 | 1 | J | P600 . -D29, .. |
| D4140-05-30.00F32-K | 30 | 155 | 202 | 60 | 32 | 40 | 1.05 | 1 | K | P600 . -D30, .. |
| D4140-05-31.00F32-K | 31 | 161 | 208 | 60 | 32 | 40 | 1.12 | 1 | K | P600 . -D31, .. |
| D4140-05-32.00F40-M | 32 | 166 | 214 | 70 | 40 | 50 | 1.51 | 1 | M | P600 . -D32, .. |
| D4140-05-33.00F40-M | 33 | 171 | 220 | 70 | 40 | 50 | 1.56 | 1 | M | P600 . -D33, .. |
| D4140-05-34.00F40-N | 34 | 176 | 226 | 70 | 40 | 50 | 1.61 | 1 | N | P600 . -D34, .. |
| D4140-05-35.00F40-N | 35 | 181 | 232 | 70 | 40 | 50 | 1.66 | 1 | N | P600 . -D35, .. |
| D4140-05-36.00F40-P | 36 | 187 | 238 | 70 | 40 | 50 | 1.72 | 1 | P | P600 . -D36, .. |
| D4140-05-37.00F40-P | 37 | 192 | 244 | 70 | 40 | 50 | 1.78 | 1 | P | P600 . -D37, .. |

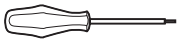
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

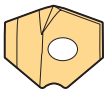
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 | 26–27 | 28–33 | 34–37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm | FS1403 (T25IP)<br>5.5 Nm | FS1404 (T25IP)<br>5.5 Nm | FS2159 (T25IP)<br>5.5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18–19 | 20–25 | 26–37 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2041 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | 😐 | | | | |
| | P6003-D.. | 12–38 | 😟 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–31.5 | | | | | | 😐 | |
| | P6005-D.. | 12–38 | | | | | 😟 | | |
| | P6006-D.. | 12–38 | | 😊 | | | | | |

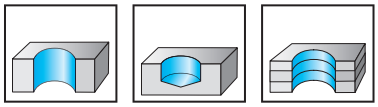
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😐 → Moderate = 😟

# Exchangeable-tip drills

## D4140 mm

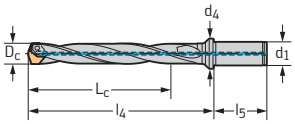
B1



7×$D_c$ | 140° | Z=2

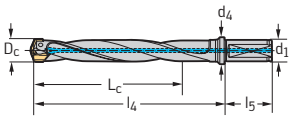
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ● | ●● | ●● | ● | | |

## Tool




Cylindrical shank with collar

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-07-12.00A16-A | 12 | 86 | 116 | 48 | 16 | 20 | 0.17 | 1 | A | P600 . -D12, .. |
| D4140-07-13.00A16-A | 13 | 93 | 124 | 48 | 16 | 20 | 0.18 | 1 | A | P600 . -D13, .. |
| D4140-07-14.00A16-B | 14 | 101 | 132 | 48 | 16 | 20 | 0.2 | 1 | B | P600 . -D14, .. |
| D4140-07-15.00A16-B | 15 | 108 | 140 | 48 | 16 | 20 | 0.23 | 1 | B | P600 . -D15, .. |
| D4140-07-16.00A20-C | 16 | 115 | 148 | 50 | 20 | 25 | 0.31 | 1 | C | P600 . -D16, .. |
| D4140-07-17.00A20-C | 17 | 122 | 156 | 50 | 20 | 25 | 0.33 | 1 | C | P600 . -D17, .. |
| D4140-07-18.00A20-D | 18 | 133 | 164 | 50 | 20 | 25 | 0.35 | 1 | D | P600 . -D18, .. |
| D4140-07-19.00A20-D | 19 | 136 | 172 | 50 | 20 | 25 | 0.37 | 1 | D | P600 . -D19, .. |
| D4140-07-20.00A20-E | 20 | 144 | 180 | 50 | 20 | 25 | 0.4 | 1 | E | P600 . -D20, .. |
| D4140-07-21.00A20-E | 21 | 151 | 188 | 50 | 20 | 25 | 0.43 | 1 | E | P600 . -D21, .. |
| D4140-07-22.00A25-F | 22 | 158 | 197 | 56 | 25 | 32 | 0.61 | 1 | F | P600 . -D22, .. |
| D4140-07-23.00A25-F | 23 | 165 | 205 | 56 | 25 | 32 | 0.65 | 1 | F | P600 . -D23, .. |
| D4140-07-24.00A25-G | 24 | 172 | 213 | 56 | 25 | 32 | 0.69 | 1 | G | P600 . -D24, .. |
| D4140-07-25.00A25-G | 25 | 180 | 221 | 56 | 25 | 32 | 0.76 | 1 | G | P600 . -D25, .. |
| D4140-07-26.00A25-H | 26 | 187 | 229 | 56 | 25 | 32 | 0.8 | 1 | H | P600 . -D26, .. |
| D4140-07-27.00A25-H | 27 | 194 | 237 | 56 | 25 | 32 | 0.85 | 1 | H | P600 . -D27, .. |
| D4140-07-28.00A32-J | 28 | 201 | 246 | 60 | 32 | 40 | 1.04 | 1 | J | P600 . -D28, .. |
| D4140-07-29.00A32-J | 29 | 208 | 254 | 60 | 32 | 40 | 1 | 1 | J | P600 . -D29, .. |
| D4140-07-30.00A32-K | 30 | 215 | 262 | 60 | 32 | 40 | 1.24 | 1 | K | P600 . -D30, .. |
| D4140-07-31.00A32-K | 31 | 223 | 270 | 60 | 32 | 40 | 1.3 | 1 | K | P600 . -D31, .. |



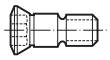

Cylindrical shank with flat

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-07-12.00F16-A | 12 | 86 | 116 | 48 | 16 | 20 | 0.16 | 1 | A | P600 . -D12, .. |
| D4140-07-13.00F16-A | 13 | 93 | 124 | 48 | 16 | 20 | 0.17 | 1 | A | P600 . -D13, .. |
| D4140-07-14.00F16-B | 14 | 101 | 132 | 48 | 16 | 20 | 0.19 | 1 | B | P600 . -D14, .. |
| D4140-07-15.00F16-B | 15 | 108 | 140 | 48 | 16 | 20 | 0.2 | 1 | B | P600 . -D15, .. |
| D4140-07-16.00F20-C | 16 | 115 | 148 | 50 | 20 | 25 | 0.3 | 1 | C | P600 . -D16, .. |
| D4140-07-17.00F20-C | 17 | 122 | 156 | 50 | 20 | 25 | 0.32 | 1 | C | P600 . -D17, .. |
| D4140-07-18.00F20-D | 18 | 126 | 164 | 50 | 20 | 25 | 0.34 | 1 | D | P600 . -D18, .. |
| D4140-07-19.00F20-D | 19 | 136 | 172 | 50 | 20 | 25 | 0.37 | 1 | D | P600 . -D19, .. |
| D4140-07-20.00F20-E | 20 | 144 | 180 | 50 | 20 | 25 | 0.39 | 1 | E | P600 . -D20, .. |
| D4140-07-21.00F20-E | 21 | 151 | 188 | 50 | 20 | 25 | 0.43 | 1 | E | P600 . -D21, .. |
| D4140-07-22.00F25-F | 22 | 158 | 197 | 56 | 25 | 32 | 0.6 | 1 | F | P600 . -D22, .. |
| D4140-07-23.00F25-F | 23 | 165 | 205 | 56 | 25 | 32 | 0.63 | 1 | F | P600 . -D23, .. |
| D4140-07-24.00F25-G | 24 | 172 | 213 | 56 | 25 | 32 | 0.68 | 1 | G | P600 . -D24, .. |
| D4140-07-25.00F25-G | 25 | 180 | 221 | 56 | 25 | 32 | 0.71 | 1 | G | P600 . -D25, .. |
| D4140-07-26.00F25-H | 26 | 187 | 229 | 56 | 25 | 32 | 0.8 | 1 | H | P600 . -D26, .. |

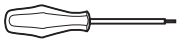
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

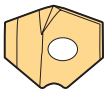
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 | 26–27 | 28–33 | 34–37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm | FS1403 (T25IP)<br>5.5 Nm | FS1404 (T25IP)<br>5.5 Nm | FS2159 (T25IP)<br>5.5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18–19 | 20–25 | 26–37 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2041 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

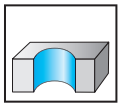
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | 😐 | | | | |
| | P6003-D.. | 12–38 | 😟 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–31.5 | | | | | | 😐 | |
| | P6005-D.. | 12–38 | | | | | 😟 | | |
| | P6006-D.. | 12–38 | | 😊 | | | | | |

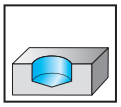
HC = Coated carbide

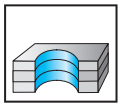
**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😐 → Moderate = 😟

# Exchangeable-tip drills

## D4140 mm



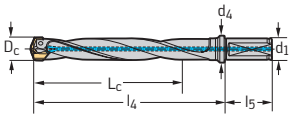




| 7×$D_C$ | 140° | Z=2 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ● | ●● | ●● | ● | | |

## Tool



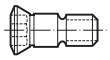

Cylindrical shank with flat

| Designation | $D_C$ mm | $L_C$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-07-27.00F25-H | 27 | 194 | 237 | 56 | 25 | 32 | 0.82 | 1 | H | P600 . -D27, .. |
| D4140-07-28.00F32-J | 28 | 201 | 246 | 60 | 32 | 40 | 1 | 1 | J | P600 . -D28, .. |
| D4140-07-29.00F32-J | 29 | 208 | 254 | 60 | 32 | 40 | 1.14 | 1 | J | P600 . -D29, .. |
| D4140-07-30.00F32-K | 30 | 215 | 262 | 60 | 32 | 40 | 1.24 | 1 | K | P600 . -D30, .. |
| D4140-07-31.00F32-K | 31 | 223 | 270 | 60 | 32 | 40 | 1.3 | 1 | K | P600 . -D31, .. |
| D4140-07-32.00F40-M | 32 | 230 | 278 | 70 | 40 | 50 | 1.8 | 1 | M | P600 . -D32, .. |
| D4140-07-33.00F40-M | 33 | 237 | 286 | 70 | 40 | 50 | 1.86 | 1 | M | P600 . -D33, .. |
| D4140-07-34.00F40-N | 34 | 244 | 294 | 70 | 40 | 50 | 1.94 | 1 | N | P600 . -D34, .. |
| D4140-07-35.00F40-N | 35 | 251 | 302 | 70 | 40 | 50 | 2.06 | 1 | N | P600 . -D35, .. |
| D4140-07-36.00F40-P | 36 | 259 | 310 | 70 | 40 | 50 | 2.09 | 1 | P | P600 . -D36, .. |
| D4140-07-37.00F40-P | 37 | 266 | 318 | 70 | 40 | 50 | 2.21 | 1 | P | P600 . -D37, .. |

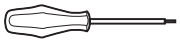
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

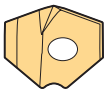
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 | 26–27 | 28–33 | 34–37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm | FS1403 (T25IP)<br>5.5 Nm | FS1404 (T25IP)<br>5.5 Nm | FS2159 (T25IP)<br>5.5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18–19 | 20–25 | 26–37 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2041 |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | 😐 | | | | |
| | P6003-D.. | 12–38 | 😟 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–31.5 | | | | | | 😐 | |
| | P6005-D.. | 12–38 | | | | | 😟 | | |
| | P6006-D.. | 12–38 | | 😊 | | | | | |

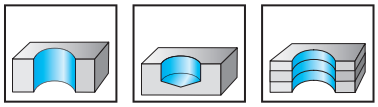
HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😐 → Moderate = 😟

# Exchangeable-tip drills

## D4140 mm

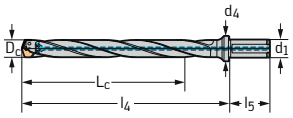
– P6006 – Can be used without pilot drilling up to 10 × $D_c$




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ● | ●● | ●● | ● | | |

B1

## Tool



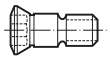

Cylindrical shank with flat

| Designation | $D_c$ mm | $L_c$ mm | $l_4$ mm | $l_5$ mm | $d_1$ mm | $d_4$ mm | kg | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|---|
| D4140-10-12.00F16-A | 12 | 120 | 152 | 48 | 16 | 20 | 0.16 | 1 | A | P600 . -D12, .. |
| D4140-10-13.00F16-A | 13 | 130 | 163 | 48 | 16 | 20 | 0.18 | 1 | A | P600 . -D13, .. |
| D4140-10-14.00F16-B | 14 | 140 | 174 | 48 | 16 | 20 | 0.2 | 1 | B | P600 . -D14, .. |
| D4140-10-15.00F16-B | 15 | 150 | 185 | 48 | 16 | 20 | 0.22 | 1 | B | P600 . -D15, .. |
| D4140-10-16.00F20-C | 16 | 160 | 196 | 50 | 20 | 25 | 0.31 | 1 | C | P600 . -D16, .. |
| D4140-10-17.00F20-C | 17 | 170 | 207 | 50 | 20 | 25 | 0.34 | 1 | C | P600 . -D17, .. |
| D4140-10-18.00F20-D | 18 | 180 | 218 | 50 | 20 | 25 | 0.4 | 1 | D | P600 . -D18, .. |
| D4140-10-19.00F20-D | 19 | 190 | 229 | 50 | 20 | 25 | 0.4 | 1 | D | P600 . -D19, .. |
| D4140-10-20.00F20-E | 20 | 200 | 240 | 50 | 20 | 25 | 0.48 | 1 | E | P600 . -D20, .. |
| D4140-10-21.00F20-E | 21 | 210 | 251 | 50 | 20 | 25 | 0.49 | 1 | E | P600 . -D21, .. |
| D4140-10-22.00F25-F | 22 | 220 | 263 | 56 | 25 | 32 | 0.71 | 1 | F | P600 . -D22, .. |
| D4140-10-23.00F25-F | 23 | 230 | 273 | 56 | 25 | 32 | 0.75 | 1 | F | P600 . -D23, .. |
| D4140-10-24.00F25-G | 24 | 240 | 285 | 56 | 25 | 32 | 0.82 | 1 | G | P600 . -D24, .. |
| D4140-10-25.00F25-G | 25 | 250 | 296 | 56 | 25 | 32 | 0.87 | 1 | G | P600 . -D25, .. |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

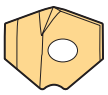
## Assembly parts

| | $D_c$ [mm] | 12–13 | 14–15 | 16–17 | 18–19 | 20–21 | 22–23 | 24–25 |
|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>1.2 Nm | FS1397 (T8IP)<br>2 Nm | FS1398 (T8IP)<br>2 Nm | FS1399 (T15IP)<br>4 Nm | FS1400 (T20IP)<br>5 Nm | FS1401 (T20IP)<br>5 Nm | FS1402 (T20IP)<br>5 Nm |

## Accessories

| | $D_c$ [mm] | 12–13 | 14–17 | 18 | 19 | 20–24 | 21–25 |
|---|---|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2003 | FS2003 | FS2003 | FS2003 |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2015 (T20IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1486 (T20IP) |

## Interchangeable inserts

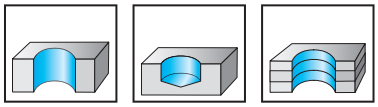
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–25.8 | | | 😐 | | | | |
| | P6003-D.. | 12–25.8 | 😟 | | | 😐 | | | 😐 |
| | P6004-D.. | 12–25.5 | | | | | | 😐 | |
| | P6005-D.. | 12–25.8 | | | | | 😟 | | |
| | P6006-D.. | 12–25.8 | | 🙂 | | | | | |

HC = Coated carbide

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = 🙂 → Good = 😐 → Moderate = 😟

# Exchangeable-tip drills

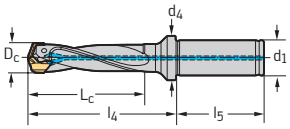
## D4140 inch



3×$D_C$ | 140° | Z=2

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ●● | | |

## Tool



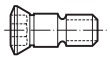

Cylindrical shank with collar

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.03-12.00A15-A | 0.472 | 1.496 | 2.677 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12. .. |
| D4140.03-13.00A15-A | 0.512 | 1.614 | 2.834 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D13. .. |
| D4140.03-14.00A15-B | 0.551 | 1.772 | 2.992 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D14. .. |
| D4140.03-15.00A15-B | 0.591 | 1.890 | 3.150 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15. .. |
| D4140.03-16.00A19-C | 0.630 | 2.008 | 3.307 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D16. .. |
| D4140.03-17.00A19-C | 0.669 | 2.126 | 3.465 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D17. .. |
| D4140.03-18.00A19-D | 0.709 | 2.244 | 3.622 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D18. .. |
| D4140.03-19.00A19-D | 0.748 | 2.362 | 3.779 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19. .. |
| D4140.03-20.00A19-E | 0.787 | 2.48 | 3.937 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D20. .. |
| D4140.03-21.00A19-E | 0.827 | 2.598 | 4.095 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D21. .. |
| D4140.03-22.00A26-F | 0.866 | 2.756 | 4.291 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22. .. |
| D4140.03-24.00A26-G | 0.945 | 2.992 | 4.606 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D24. .. |
| D4140.03-26.00A26-H | 1.024 | 3.268 | 4.921 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D26. .. |
| D4140.03-28.00A31-J | 1.102 | 3.504 | 5.275 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D28. .. |
| D4140.03-30.00A31-K | 1.181 | 3.74 | 5.591 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D30. .. |

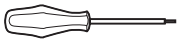
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

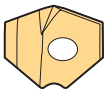
## Assembly parts

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.59 | 0.63–0.67 | 0.71–0.75 | 0.79–0.83 | 0.87 | 0.94 | 1.02 | 1.1–1.18 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert | FS1396 (T7IP) | FS1397 (T8IP) | FS1398 (T8IP) | FS1399 (T15IP) | FS1400 (T20IP) | FS1401 (T20IP) | FS1402 (T20IP) | FS1403 (T25IP) | FS1404 (T25IP) |
| | Tightening torque | 11 in lbs | 18 in lbs | 18 in lbs | 35 in lbs | 44 in lbs | 44 in lbs | 44 in lbs | 49 in lbs | 49 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.67 | 0.71–0.75 | 0.79–0.94 | 1.02–1.18 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2042 |
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–30.5 | | | ● | | | | |
| | P6003-D.. | 12–30.5 | ● | | | ● | | | ● |
| | P6004-D.. | 12–30.5 | | | | | | ● | |
| | P6005-D.. | 12–30.5 | | | | | ● | | |
| | P6006-D.. | 12–30.5 | | ● | | | | | |

HC = Coated carbide

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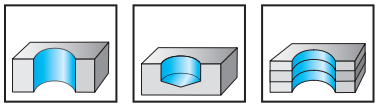
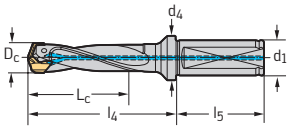
# Exchangeable-tip drills

## D4140 inch




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ●● | | |

### Tool



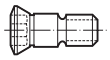

Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.03-12.00F15-A | 0.472 | 1.496 | 2.677 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12, .. |
| D4140.03-13.00F15-A | 0.512 | 1.614 | 2.835 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D13, .. |
| D4140.03-14.00F15-B | 0.551 | 1.772 | 2.992 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D14, .. |
| D4140.03-15.00F15-B | 0.591 | 1.890 | 3.150 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15, .. |
| D4140.03-16.00F19-C | 0.630 | 2.008 | 3.307 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D16, .. |
| D4140.03-17.00F19-C | 0.669 | 2.126 | 3.465 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D17, .. |
| D4140.03-18.00F19-D | 0.709 | 2.244 | 3.622 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D18, .. |
| D4140.03-19.00F19-D | 0.748 | 2.362 | 3.780 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19, .. |
| D4140.03-20.00F19-E | 0.787 | 2.520 | 3.937 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D20, .. |
| D4140.03-21.00F19-E | 0.827 | 2.638 | 4.094 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D21, .. |
| D4140.03-22.00F26-F | 0.866 | 2.756 | 4.291 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22, .. |
| D4140.03-23.00F26-F | 0.906 | 2.874 | 4.449 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D23, .. |
| D4140.03-24.00F26-G | 0.945 | 2.992 | 4.606 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D24, .. |
| D4140.03-25.00F26-G | 0.984 | 3.150 | 4.764 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D25, .. |
| D4140.03-26.00F26-H | 1.024 | 3.268 | 4.921 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D26, .. |
| D4140.03-27.00F26-H | 1.063 | 3.386 | 5.079 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D27, .. |
| D4140.03-28.00F31-J | 1.102 | 3.504 | 5.275 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D28, .. |
| D4140.03-29.00F31-J | 1.142 | 3.622 | 5.433 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D29, .. |
| D4140.03-30.00F31-K | 1.181 | 3.74 | 5.591 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D30, .. |
| D4140.03-31.00F31-K | 1.22 | 3.898 | 5.748 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D31, .. |
| D4140.03-32.00F31-M | 1.260 | 4.016 | 5.906 | 2.281 | 1.250 | 1.575 | 1 | M | P600 . -D32, .. |
| D4140.03-33.00F31-M | 1.299 | 4.134 | 6.063 | 2.281 | 1.250 | 1.575 | 1 | M | P600 . -D33, .. |
| D4140.03-34.00F38-N | 1.339 | 4.252 | 6.22 | 2.688 | 1.500 | 1.969 | 1 | N | P600 . -D34, .. |
| D4140.03-35.00F38-N | 1.378 | 4.37 | 6.378 | 2.688 | 1.500 | 1.969 | 1 | N | P600 . -D35, .. |
| D4140.03-36.00F38-P | 1.417 | 4.528 | 6.535 | 2.688 | 1.500 | 1.969 | 1 | P | P600 . -D36, .. |
| D4140.03-37.00F38-P | 1.457 | 4.646 | 6.693 | 2.688 | 1.500 | 1.969 | 1 | P | P600 . -D37, .. |

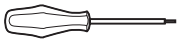
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

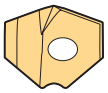
## Assembly parts

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.59 | 0.63–0.67 | 0.71–0.75 | 0.79–0.83 | 0.87–0.91 | 0.94–0.98 | 1.02–1.06 | 1.1–1.3 | 1.34–1.46 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert | FS1396 (T7IP) | FS1397 (T8IP) | FS1398 (T8IP) | FS1399 (T15IP) | FS1400 (T20IP) | FS1401 (T20IP) | FS1402 (T20IP) | FS1403 (T25IP) | FS1404 (T25IP) | FS2159 (T25IP) |
| | Tightening torque | 11 in lbs | 18 in lbs | 18 in lbs | 35 in lbs | 44 in lbs | 44 in lbs | 44 in lbs | 49 in lbs | 49 in lbs | 49 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.67 | 0.71–0.75 | 0.79–0.98 | 1.02–1.46 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2042 |
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

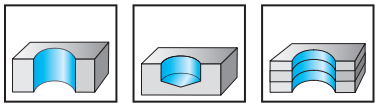
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | ● | | | | |
| | P6003-D.. | 12–38 | ● | | | ● | | | ● |
| | P6004-D.. | 12–31.5 | | | | | | ● | |
| | P6005-D.. | 12–38 | | | | | ● | | |
| | P6006-D.. | 12–38 | | ● | | | | | |

HC = Coated carbide

B1

# Exchangeable-tip drills

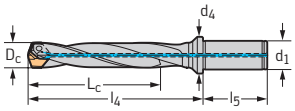
## D4140 inch



5×$D_C$ | 140° | Z=2

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ● | | |

### Tool



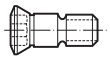

Cylindrical shank with collar

| Designation | $D_C$ inch | $L_C$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.05-12.00A15-A | 0.472 | 2.441 | 3.622 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12, .. |
| D4140.05-13.00A15-A | 0.512 | 2.638 | 3.858 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D13, .. |
| D4140.05-14.00A15-B | 0.551 | 2.874 | 4.094 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D14, .. |
| D4140.05-15.00A15-B | 0.591 | 3.071 | 4.331 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15, .. |
| D4140.05-16.00A19-C | 0.630 | 3.268 | 4.567 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D16, .. |
| D4140.05-17.00A19-C | 0.669 | 3.465 | 4.803 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D17, .. |
| D4140.05-18.00A19-D | 0.709 | 3.661 | 5.039 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D18, .. |
| D4140.05-19.00A19-D | 0.748 | 3.858 | 5.276 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19, .. |
| D4140.05-20.00A19-E | 0.787 | 4.094 | 5.512 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D20, .. |
| D4140.05-21.00A19-E | 0.827 | 4.291 | 5.748 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D21, .. |
| D4140.05-22.00A26-F | 0.866 | 4.488 | 6.024 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22, .. |
| D4140.05-24.00A26-G | 0.945 | 4.882 | 6.496 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D24, .. |
| D4140.05-26.00A26-H | 1.024 | 5.315 | 6.969 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D26, .. |
| D4140.05-28.00A31-J | 1.102 | 5.709 | 7.48 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D28, .. |
| D4140.05-30.00A31-K | 1.181 | 6.102 | 7.953 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D30, .. |

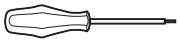
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

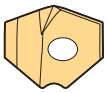
## Assembly parts

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.59 | 0.63–0.67 | 0.71–0.75 | 0.79–0.83 | 0.87 | 0.94 | 1.02 | 1.1–1.18 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert | FS1396 (T7IP) | FS1397 (T8IP) | FS1398 (T8IP) | FS1399 (T15IP) | FS1400 (T20IP) | FS1401 (T20IP) | FS1402 (T20IP) | FS1403 (T25IP) | FS1404 (T25IP) |
| | Tightening torque | 11 in lbs | 18 in lbs | 18 in lbs | 35 in lbs | 44 in lbs | 44 in lbs | 44 in lbs | 49 in lbs | 49 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.67 | 0.71–0.75 | 0.79–0.94 | 1.02–1.18 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2042 |
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

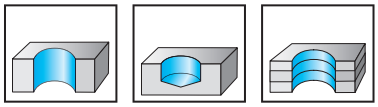
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–30.5 | | | ● | | | | |
| | P6003-D.. | 12–30.5 | ● | | | ● | | | ● |
| | P6004-D.. | 12–30.5 | | | | | | ● | |
| | P6005-D.. | 12–30.5 | | | | | ● | | |
| | P6006-D.. | 12–30.5 | | ● | | | | | |

HC = Coated carbide

B1

# Exchangeable-tip drills

## D4140 inch

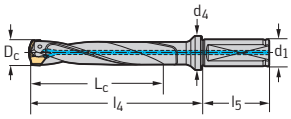


5×$D_C$ | 140° | Z=2

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ●● | ●● | ●● | ● | | |

B1

### Tool



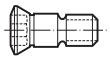

Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.05-12.00F15-A | 0.472 | 2.441 | 3.622 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12, .. |
| D4140.05-13.00F15-A | 0.512 | 2.638 | 3.858 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D13, .. |
| D4140.05-14.00F15-B | 0.551 | 2.874 | 4.094 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D14, .. |
| D4140.05-15.00F15-B | 0.591 | 3.071 | 4.331 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15, .. |
| D4140.05-16.00F19-C | 0.630 | 3.268 | 4.567 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D16, .. |
| D4140.05-17.00F19-C | 0.669 | 3.465 | 4.803 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D17, .. |
| D4140.05-18.00F19-D | 0.709 | 3.661 | 5.039 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D18, .. |
| D4140.05-19.00F19-D | 0.748 | 3.858 | 5.276 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19, .. |
| D4140.05-20.00F19-E | 0.787 | 4.094 | 5.512 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D20, .. |
| D4140.05-21.00F19-E | 0.827 | 4.291 | 5.748 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D21, .. |
| D4140.05-22.00F26-F | 0.866 | 4.488 | 6.024 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22, .. |
| D4140.05-23.00F26-F | 0.906 | 4.685 | 6.260 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D23, .. |
| D4140.05-24.00F26-G | 0.945 | 4.882 | 6.496 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D24, .. |
| D4140.05-25.00F26-G | 0.984 | 5.118 | 6.732 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D25, .. |
| D4140.05-26.00F26-H | 1.024 | 5.315 | 6.969 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D26, .. |
| D4140.05-27.00F26-H | 1.063 | 5.512 | 7.205 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D27, .. |
| D4140.05-28.00F31-J | 1.102 | 5.709 | 7.48 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D28, .. |
| D4140.05-29.00F31-J | 1.142 | 5.906 | 7.716 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D29, .. |
| D4140.05-30.00F31-K | 1.181 | 6.339 | 7.953 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D30, .. |
| D4140.05-31.00F31-K | 1.22 | 6.339 | 8.189 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D31, .. |
| D4140.05-32.00F31-M | 1.260 | 6.535 | 8.425 | 2.281 | 1.250 | 1.575 | 1 | M | P600 . -D32, .. |
| D4140.05-33.00F31-M | 1.299 | 6.732 | 8.661 | 2.281 | 1.250 | 1.575 | 1 | M | P600 . -D33, .. |
| D4140.05-34.00F38-N | 1.339 | 6.929 | 8.898 | 2.688 | 1.500 | 1.969 | 1 | N | P600 . -D34, .. |
| D4140.05-35.00F38-N | 1.378 | 7.126 | 9.134 | 2.688 | 1.500 | 1.969 | 1 | N | P600 . -D35, .. |
| D4140.05-36.00F38-P | 1.417 | 7.362 | 9.37 | 2.688 | 1.500 | 1.969 | 1 | P | P600 . -D36, .. |
| D4140.05-37.00F38-P | 1.457 | 7.559 | 9.606 | 2.688 | 1.500 | 1.969 | 1 | P | P600 . -D37, .. |

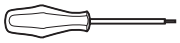
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

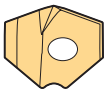
## Assembly parts

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.59 | 0.63–0.67 | 0.71–0.75 | 0.79–0.83 | 0.87–0.91 | 0.94–0.98 | 1.02–1.06 | 1.1–1.3 | 1.34–1.46 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert | FS1396 (T7IP) | FS1397 (T8IP) | FS1398 (T8IP) | FS1399 (T15IP) | FS1400 (T20IP) | FS1401 (T20IP) | FS1402 (T20IP) | FS1403 (T25IP) | FS1404 (T25IP) | FS2159 (T25IP) |
| | Tightening torque | 11 in lbs | 18 in lbs | 18 in lbs | 35 in lbs | 44 in lbs | 44 in lbs | 44 in lbs | 49 in lbs | 49 in lbs | 49 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.67 | 0.71–0.75 | 0.79–0.98 | 1.02–1.46 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2042 |
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

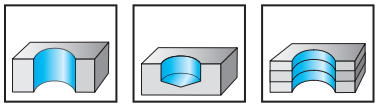
| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | ● | | | | |
| | P6003-D.. | 12–38 | ● | | | ● | | | ● |
| | P6004-D.. | 12–31.5 | | | | | | ● | |
| | P6005-D.. | 12–38 | | | | | ● | | |
| | P6006-D.. | 12–38 | | ● | | | | | |

HC = Coated carbide

B1

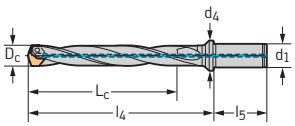
# Exchangeable-tip drills

## D4140 inch




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ● | ●● | ●● | ● | | |

### Tool



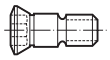

Cylindrical shank with collar

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.07-12.00A15-A | 0.472 | 3.386 | 4.567 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12, .. |
| D4140.07-13.00A15-A | 0.512 | 3.661 | 4.882 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D13, .. |
| D4140.07-14.00A15-B | 0.551 | 3.976 | 5.197 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D14, .. |
| D4140.07-15.00A15-B | 0.591 | 4.252 | 5.512 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15, .. |
| D4140.07-16.00A19-C | 0.630 | 4.528 | 5.827 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D16, .. |
| D4140.07-17.00A19-C | 0.669 | 4.803 | 6.142 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D17, .. |
| D4140.07-18.00A19-D | 0.709 | 5.079 | 6.457 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D18, .. |
| D4140.07-19.00A19-D | 0.748 | 5.354 | 6.772 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19, .. |
| D4140.07-20.00A19-E | 0.787 | 5.669 | 7.087 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D20, .. |
| D4140.07-21.00A19-E | 0.827 | 5.945 | 7.402 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D21, .. |
| D4140.07-22.00A26-F | 0.866 | 6.22 | 7.756 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22, .. |
| D4140.07-24.00A26-G | 0.945 | 6.772 | 8.386 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D24, .. |
| D4140.07-26.00A26-H | 1.024 | 7.362 | 9.016 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D26, .. |
| D4140.07-28.00A31-J | 1.102 | 7.913 | 9.685 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D28, .. |
| D4140.07-30.00A31-K | 1.181 | 8.465 | 10.315 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D30, .. |

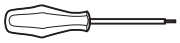
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

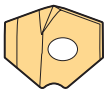
## Assembly parts

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.59 | 0.63–0.67 | 0.71–0.75 | 0.79–0.83 | 0.87 | 0.94 | 1.02 | 1.1–1.18 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>11 in lbs | FS1397 (T8IP)<br>18 in lbs | FS1398 (T8IP)<br>18 in lbs | FS1399 (T15IP)<br>35 in lbs | FS1400 (T20IP)<br>44 in lbs | | FS1402 (T20IP)<br>44 in lbs | FS1403 (T25IP)<br>49 in lbs | FS1404 (T25IP)<br>49 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.67 | 0.71–0.75 | 0.79–0.94 | 1.02–1.18 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2042 |
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–30.5 | | | ● | | | | |
| | P6003-D.. | 12–30.5 | ● | | | ● | | | ● |
| | P6004-D.. | 12–30.5 | | | | | | ● | |
| | P6005-D.. | 12–30.5 | | | | | ● | | |
| | P6006-D.. | 12–30.5 | | ● | | | | | |

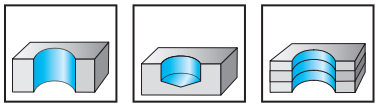
HC = Coated carbide

B1

# Exchangeable-tip drills

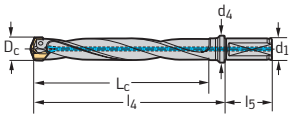
## D4140 inch

B1




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ● | ●● | ●● | ● | | |

## Tool



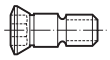

Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.07-12.00F15-A | 0.472 | 3.386 | 4.567 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12, .. |
| D4140.07-13.00F15-A | 0.512 | 3.661 | 4.882 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D13, .. |
| D4140.07-14.00F15-B | 0.551 | 3.976 | 5.197 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D14, .. |
| D4140.07-15.00F15-B | 0.591 | 4.252 | 5.512 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15, .. |
| D4140.07-16.00F19-C | 0.630 | 4.528 | 5.828 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D16, .. |
| D4140.07-17.00F19-C | 0.669 | 4.803 | 6.142 | 2.031 | 0.750 | 0.984 | 1 | C | P600 . -D17, .. |
| D4140.07-18.00F19-D | 0.709 | 5.079 | 6.457 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D18, .. |
| D4140.07-19.00F19-D | 0.748 | 5.354 | 6.772 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19, .. |
| D4140.07-20.00F19-E | 0.787 | 5.669 | 7.087 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D20, .. |
| D4140.07-21.00F19-E | 0.827 | 5.945 | 7.402 | 2.031 | 0.750 | 0.984 | 1 | E | P600 . -D21, .. |
| D4140.07-22.00F26-F | 0.866 | 6.22 | 7.756 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22, .. |
| D4140.07-23.00F26-F | 0.906 | 6.496 | 8.071 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D23, .. |
| D4140.07-24.00F26-G | 0.945 | 6.772 | 8.386 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D24, .. |
| D4140.07-25.00F26-G | 0.984 | 7.087 | 8.701 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D25, .. |
| D4140.07-26.00F26-H | 1.024 | 7.362 | 9.016 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D26, .. |
| D4140.07-27.00F26-H | 1.063 | 7.638 | 9.331 | 2.281 | 1.000 | 1.260 | 1 | H | P600 . -D27, .. |
| D4140.07-28.00F31-J | 1.102 | 7.913 | 9.685 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D28, .. |
| D4140.07-29.00F31-J | 1.142 | 8.189 | 10.000 | 2.281 | 1.250 | 1.575 | 1 | J | P600 . -D29, .. |
| D4140.07-30.00F31-K | 1.181 | 8.465 | 10.315 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D30, .. |
| D4140.07-31.00F31-K | 1.22 | 8.780 | 10.630 | 2.281 | 1.250 | 1.575 | 1 | K | P600 . -D31, .. |
| D4140.07-32.00F31-M | 1.260 | 9.055 | 10.945 | 2.281 | 1.250 | 1.575 | 1 | M | P600 . -D32, .. |
| D4140.07-33.00F31-M | 1.299 | 9.331 | 11.260 | 2.281 | 1.250 | 1.575 | 1 | M | P600 . -D33, .. |
| D4140.07-34.00F38-N | 1.339 | 9.606 | 11.575 | 2.688 | 1.500 | 1.969 | 1 | N | P600 . -D34, .. |
| D4140.07-35.00F38-N | 1.378 | 9.882 | 11.890 | 2.688 | 1.500 | 1.969 | 1 | N | P600 . -D35, .. |
| D4140.07-36.00F38-P | 1.417 | 10.197 | 12.205 | 2.688 | 1.500 | 1.969 | 1 | P | P600 . -D36, .. |
| D4140.07-37.00F38-P | 1.457 | 10.433 | 12.520 | 2.688 | 1.500 | 1.969 | 1 | P | P600 . -D37, .. |

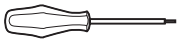
Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

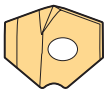
## Assembly parts

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.59 | 0.63–0.67 | 0.71–0.75 | 0.79–0.83 | 0.87–0.91 | 0.94–0.98 | 1.02–1.06 | 1.1–1.3 | 1.34–1.46 |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert | FS1396 (T7IP) | FS1397 (T8IP) | FS1398 (T8IP) | FS1399 (T15IP) | FS1400 (T20IP) | FS1401 (T20IP) | FS1402 (T20IP) | FS1403 (T25IP) | FS1404 (T25IP) | FS2159 (T25IP) |
| | Tightening torque | 11 in lbs | 18 in lbs | 18 in lbs | 35 in lbs | 44 in lbs | 44 in lbs | 44 in lbs | 49 in lbs | 49 in lbs | 49 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47–0.51 | 0.55–0.67 | 0.71–0.75 | 0.79–0.98 | 1.02–1.46 |
|---|---|---|---|---|---|---|
|  | Torque T-handle | | | | | FS2042 |
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 | |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) | FS2049 (T25IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) | FS1487 (T25IP) |

## Interchangeable inserts

| | Designation | $D_c$ mm | P HC WMP35 | P HC WPP25 | P HC WPP45C | M HC WMP35 | K HC WKK45C | N HC WNN25 | S HC WMP35 |
|---|---|---|---|---|---|---|---|---|---|
|  | P6001-D.. | 12–38 | | | ● | | | | |
| | P6003-D.. | 12–38 | ● | | | ● | | | ● |
| | P6004-D.. | 12–31.5 | | | | | | ● | |
| | P6005-D.. | 12–38 | | | | | ● | | |
| | P6006-D.. | 12–38 | | ● | | | | | |

HC = Coated carbide

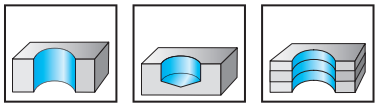
B1

# Exchangeable-tip drills

## D4140 inch

– P6006 – Can be used without pilot drilling up to 10 × $D_c$

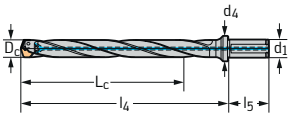




10×$D_c$ | 140° | Z=2

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| D4140 | ●● | ● | ●● | ●● | ● | | |

## Tool



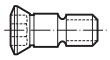

Cylindrical shank with flat

| Designation | $D_c$ inch | $L_c$ inch | $l_4$ inch | $l_5$ inch | $d_1$ inch | $d_4$ inch | No. of inserts | Seat size | Version |
|---|---|---|---|---|---|---|---|---|---|
| D4140.10-12.00F15-A | 0.472 | 4.724 | 5.984 | 1.890 | 0.625 | 0.787 | 1 | A | P600 . -D12, .. |
| D4140.10-15.00F15-B | 0.591 | 5.906 | 7.283 | 1.890 | 0.625 | 0.787 | 1 | B | P600 . -D15, .. |
| D4140.10-19.00F19-D | 0.748 | 7.48 | 9.016 | 2.031 | 0.750 | 0.984 | 1 | D | P600 . -D19, .. |
| D4140.10-22.00F26-F | 0.866 | 8.661 | 10.354 | 2.281 | 1.000 | 1.260 | 1 | F | P600 . -D22, .. |
| D4140.10-25.00F26-G | 0.984 | 9.843 | 11.654 | 2.281 | 1.000 | 1.260 | 1 | G | P600 . -D25, .. |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT** Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = 😐 → Moderate = ☹

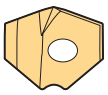
## Assembly parts

| | $D_c$ [inch] | 0.47 | 0.59 | 0.75 | 0.87 | 0.98 |
|---|---|---|---|---|---|---|
|  | Clamping screw for drill insert<br>Tightening torque | FS1396 (T7IP)<br>11 in lbs | FS1397 (T8IP)<br>18 in lbs | FS1399 (T15IP)<br>35 in lbs | FS1401 (T20IP)<br>44 in lbs | FS1402 (T20IP)<br>44 in lbs |

## Accessories

| | $D_c$ [inch] | 0.47 | 0.59 | 0.75 | 0.87–0.98 |
|---|---|---|---|---|---|
|  | Torque screwdriver, analog | FS2002 | FS2004 | FS2004 | FS2004 |
|  | Interchangeable blade | FS2011 (T7IP) | FS2012 (T8IP) | FS2014 (T15IP) | FS2015 (T20IP) |
|  | Screwdriver | FS2088 (T7IP) | FS1483 (T8IP) | FS1485 (T15IP) | FS1486 (T20IP) |

## Interchangeable inserts

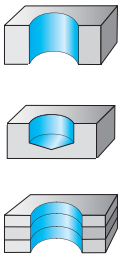
| | Designation | $D_c$ mm | P | | | M | K | N | S |
|---|---|---|---|---|---|---|---|---|---|
| | | | | HC | | HC | HC | HC | HC |
| | | | WMP35 | WPP25 | WPP45C | WMP35 | WKK45C | WNN25 | WMP35 |
|  | P6001-D.. | 12–25.8 | | | ● | | | | |
| | P6003-D.. | 12–25.8 | ● | | | ● | | | ● |
| | P6004-D.. | 12–25.5 | | | | | | ● | |
| | P6005-D.. | 12–25.8 | | | | | ● | | |
| | P6006-D.. | 12–25.8 | | ● | | | | | |

HC = Coated carbide

B1

# HSS drilling tools



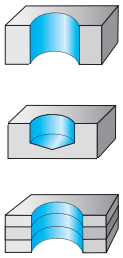


| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | **3 x $D_C$** | | | **5 x $D_C$** | |
| |  |  |  |  |  |
| **Designation** | A1154TFT<br>VA Inox | A1149XPL<br>UFL® | A1148<br>UFL® | A3153 | A3143 |
| **Additional services** | R | R | R | | |
| **Standard** | DIN 1897 | DIN 1897 | DIN 1897 | DIN 1899 | DIN 1899 |
| **Coating / grade** | TFT | XPL | uncoated | uncoated | uncoated |
| **Shank** | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.079–0.630 [2–16] | 0.039–0.787 [1–20] | 0.039–0.787 [1–20] | 0.006–0.055<br>[0.15–1.4] | 0.002–0.057<br>[0.05–1.45] |
| **P** Steel | ● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● | ● | ● |
| **K** Cast iron | | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ●● | ●● | ●● |
| **H** Hard materials | | | | | |
| **O** Other | ● | ● | ● | ● | ● |
| **Page in catalog** | **B 318** | **B 312** | **B 321** | **B 330** | **B 327** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | A1154TFT | A1149XPL | A1148 | A3153 | A3143 |

**WALTER SELECT** ●● Primary application ● Other application

# HSS drilling tools





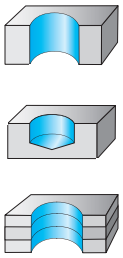
| | |
|---|---|
| **Drilling depth** | **8 x $D_C$** |

| **Designation** | DA110<br>Perform | A4247<br>Alpha® XE | A4244<br>VA | A1254TFT<br>VA Inox | A1249XPL<br>UFL® |
|---|---|---|---|---|---|
| **Additional services** | | | | R | R |
| **Standard** | DIN 338 | DIN 345 | DIN 345 | DIN 338 | DIN 338 |
| **Coating / grade** | WZ90AJ | uncoated | uncoated | TFT | XPL |
| **Shank** | Cylindrical shank | Morse taper | Morse taper | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.079–0.630 [1–16] | 0.394–1.575 [10–40] | 0.394–1.260 [10–32] | 0.118–0.630 [3–16] | 0.039–0.787 [1–20] |
| **P** Steel | ●● | ●● | ● | ● | ●● |
| **M** Stainless steel | ● | ●● | ●● | ●● | ●● |
| **K** Cast iron | ●● | ●● | | | ●● |
| **N** NF metals | ● | ●● | ● | ●● | ●● |
| **S** Materials with difficult cutting properties | | ●● | ●● | ● | ● |
| **H** Hard materials | | | | | |
| **O** Other | ● | ● | | ● | ● |
| **Page in catalog** | **B 368** | **B 398** | **B 396** | **B 337** | **B 332** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | DA110 | A4247 | A4244 | A1254TFT | A1249XPL |

**WALTER SELECT** ●● Primary application ● Other application

# HSS drilling tools



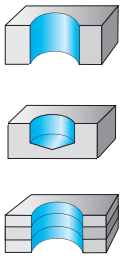


| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | **8 x $D_C$** | | | | |
| |  |  |  |  |  |
| **Designation** | A1247<br>Alpha® XE | A1244<br>VA | A1222<br>UFL® | A1211TIN | A1211 |
| **Additional services** | | | R | | |
| **Standard** | DIN 338 | DIN 338 | DIN 338 | DIN 338 | DIN 338 |
| **Coating / grade** | uncoated | uncoated | uncoated | TIN | uncoated |
| **Shank** | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.039–0.630 [1–16] | 0.012–0.5941 [0.3–15] | 0.039–0.630 [1–16] | 0.020–0.630 [0.5–16] | 0.008–0.866 [0.2–22] |
| **P** Steel | ●● | ● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ● | ● | ● |
| **K** Cast iron | ●● | | ●● | ●● | ●● |
| **N** NF metals | ●● | ● | ●● | ● | ● |
| **S** Materials with difficult cutting properties | ●● | ●● | ● | ● | ● |
| **H** Hard materials | | | | | |
| **O** Other | ● | | ● | ● | ● |
| **Page in catalog** | **B 339** | **B 344** | **B 350** | **B 356** | **B 356** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | A1247 | A1244 | A1222 | A1211TIN | A1211 |

**WALTER SELECT** ●● Primary application ● Other application

# HSS drilling tools



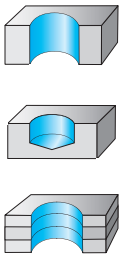


| | | | | | |
|---|---|---|---|---|---|
| **Drilling depth** | **12 x $D_C$** | | | | |
| |  |  |  |  |  |
| **Designation** | A4422<br>UFL® | A1549TFP<br>UFL® | A1547<br>Alpha® XE | A1544<br>VA | A1522<br>UFL® |
| **Additional services** | R | R | | | R |
| **Standard** | DIN 341 | DIN 340 | DIN 340 | DIN 340 | DIN 340 |
| **Coating / grade** | uncoated | TFP | uncoated | uncoated | uncoated |
| **Shank** | Morse taper | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.394–1.220 [10–31] | 0.039–0.472 [1–12] | 0.039–0.500 [1–12.7] | 0.039–0.472 [1–12] | 0.039–0.875<br>[1–22.23] |
| **P** Steel | ●● | ●● | ● | ● | ●● |
| **M** Stainless steel | ● | ●● | ●● | ●● | ● |
| **K** Cast iron | ●● | ●● | ●● | | ●● |
| **N** NF metals | ●● | ●● | ● | ● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ●● | ●● | ● |
| **H** Hard materials | | | | | |
| **O** Other | ● | ● | ● | | ● |
| **Page in catalog** | **B 400** | **B 371** | **B 374** | **B 377** | **B 380** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | A4422 | A1549TFP | A1547 | A1544 | A1522 |

**WALTER SELECT** ●● Primary application ● Other application

# HSS drilling tools

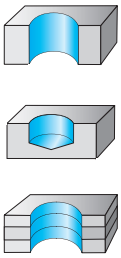




| Drilling depth | 12 x $D_C$ | 16 x $D_C$ | | | 22 x $D_C$ |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| **Designation** | A1511 | A4622 UFL® | A4611 | A1622 UFL® | A4722 UFL® |
| **Additional services** | | R | | R | R |
| **Standard** | DIN 340 | DIN 1870 I | DIN 1870 I | DIN 1869 I | DIN 1870 II |
| **Coating / grade** | uncoated | uncoated | uncoated | uncoated | uncoated |
| **Shank** | Cylindrical shank | Morse taper | Morse taper | Cylindrical shank | Morse taper |
| **Diameter range inch [mm]** | 0.020–0.866 [0.5–22] | 0.472–1.181 [12–30] | 0.315–1.575 [8–40] | 0.079–0.500 [2–12.7] | 0.315–1.575 [8–40] |
| **P** Steel | ● | ●● | ● | ●● | ●● |
| **M** Stainless steel | ● | ● | ● | ● | ● |
| **K** Cast iron | ● | ●● | ● | ●● | ●● |
| **N** NF metals | ● | ●● | ● | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ● | ● | ● |
| **H** Hard materials | | | | | |
| **O** Other | ● | ● | ● | ● | ● |
| **Page in catalog** | B 385 | B 402 | B 403 | B 388 | B 405 |
| **QR code** |  |  |  |  |  |
| www.walter-tools.com/woc/ | A1511 | A4622 | A4611 | A1622 | A4722 |

**WALTER SELECT** ●● Primary application ● Other application

# HSS drilling tools



| Drilling depth | 22 x $D_C$ | 30 x $D_C$ | 60 x $D_C$ | 85 x $D_C$ |
|---|---|---|---|---|
| |  |  |  |  |
| **Designation** | A1722 UFL® | A1822 UFL® | A1922S UFL® | A1922L UFL® |
| **Additional services** | R | R | R | R |
| **Standard** | DIN 1869 II | DIN 1869 III | Walter | Walter |
| **Coating / grade** | uncoated | uncoated | uncoated | uncoated |
| **Shank** | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.118–0.472 [3–12] | 0.138–0.472 [3.5–12] | 0.236–0.551 [6–14] | 0.315–0.472 [8–12] |
| **P** Steel | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ● | ● | ● | ● |
| **K** Cast iron | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ● | ● |
| **H** Hard materials | | | | |
| **O** Other | ● | ● | ● | ● |
| **Page in catalog** | B 392 | B 393 | B 394 | B 395 |
| **QR code** | | | | |
| www.walter-tools.com/woc/ | A1722 | A1822 | A1922S | A1922L |

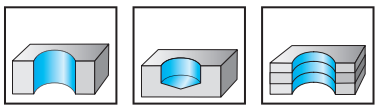
**WALTER SELECT**

●● Primary application ● Other application

# HSS-E twist drills, extra short

## A1149XPL

## UFL®

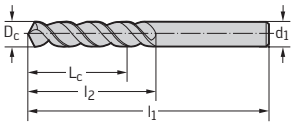


~3×$D_c$ | DIN 1897 | 130°

B1

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

### Tool




Cylindrical shank

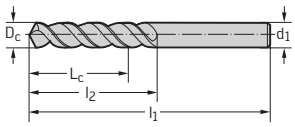
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1149XPL-1 | 1 | 0.0394 | | 4 | 26 | 6 | 1 |
| A1149XPL-NO60 | 1.016 | 0.0400 | No. 60 | 4 | 26 | 6 | 1.016 |
| A1149XPL-NO59 | 1.041 | 0.0410 | No. 59 | 4 | 26 | 6 | 1.041 |
| A1149XPL-NO58 | 1.067 | 0.0420 | No. 58 | 5 | 28 | 7 | 1.067 |
| A1149XPL-NO57 | 1.092 | 0.0430 | No. 57 | 5 | 28 | 7 | 1.092 |
| A1149XPL-1.1 | 1.1 | 0.0433 | | 5 | 28 | 7 | 1.1 |
| A1149XPL-NO56 | 1.181 | 0.0465 | No. 56 | 6 | 30 | 8 | 1.181 |
| A1149XPL-3/64IN | 1.191 | 0.0469 | 3/64" | 6 | 30 | 8 | 1.191 |
| A1149XPL-1.2 | 1.2 | 0.0472 | | 6 | 30 | 8 | 1.2 |
| A1149XPL-1.3 | 1.3 | 0.0512 | | 6 | 30 | 8 | 1.3 |
| A1149XPL-NO55 | 1.321 | 0.0520 | No. 55 | 6 | 32 | 9 | 1.321 |
| A1149XPL-NO54 | 1.397 | 0.0550 | No. 54 | 6 | 32 | 9 | 1.397 |
| A1149XPL-1.4 | 1.4 | 0.0551 | | 6 | 32 | 9 | 1.4 |
| A1149XPL-1.5 | 1.5 | 0.0591 | | 6 | 32 | 9 | 1.5 |
| A1149XPL-NO53 | 1.511 | 0.0595 | No. 53 | 7 | 34 | 10 | 1.511 |
| A1149XPL-1/16IN | 1.588 | 0.0625 | 1/16" | 7 | 34 | 10 | 1.588 |
| A1149XPL-1.6 | 1.6 | 0.0630 | | 7 | 34 | 10 | 1.6 |
| A1149XPL-NO52 | 1.613 | 0.0635 | No. 52 | 7 | 34 | 10 | 1.613 |
| A1149XPL-1.7 | 1.7 | 0.0669 | | 7 | 34 | 10 | 1.7 |
| A1149XPL-NO51 | 1.702 | 0.0670 | No. 51 | 8 | 36 | 11 | 1.702 |
| A1149XPL-NO50 | 1.778 | 0.0700 | No. 50 | 8 | 36 | 11 | 1.778 |
| A1149XPL-1.8 | 1.8 | 0.0709 | | 8 | 36 | 11 | 1.8 |
| A1149XPL-NO49 | 1.854 | 0.0730 | No. 49 | 8 | 36 | 11 | 1.854 |
| A1149XPL-1.9 | 1.9 | 0.0748 | | 8 | 36 | 11 | 1.9 |
| A1149XPL-NO48 | 1.93 | 0.0760 | No. 48 | 8 | 38 | 12 | 1.93 |
| A1149XPL-5/64IN | 1.984 | 0.0781 | 5/64" | 8 | 38 | 12 | 1.984 |
| A1149XPL-NO47 | 1.994 | 0.0785 | No. 47 | 8 | 38 | 12 | 1.994 |
| A1149XPL-2 | 2 | 0.0787 | | 8 | 38 | 12 | 2 |
| A1149XPL-NO46 | 2.057 | 0.0810 | No. 46 | 8 | 38 | 12 | 2.057 |
| A1149XPL-NO45 | 2.083 | 0.0820 | No. 45 | 8 | 38 | 12 | 2.083 |
| A1149XPL-2.1 | 2.1 | 0.0827 | | 8 | 38 | 12 | 2.1 |
| A1149XPL-NO44 | 2.184 | 0.0860 | No. 44 | 9 | 40 | 13 | 2.184 |
| A1149XPL-2.2 | 2.2 | 0.0866 | | 9 | 40 | 13 | 2.2 |
| A1149XPL-NO43 | 2.261 | 0.0890 | No. 43 | 9 | 40 | 13 | 2.261 |
| A1149XPL-2.3 | 2.3 | 0.0906 | | 9 | 40 | 13 | 2.3 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

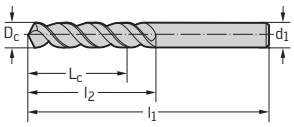
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1149XPL-NO42 | 2.375 | 0.0935 | No. 42 | 10 | 43 | 14 | 2.375 |
| A1149XPL-3/32IN | 2.381 | 0.0937 | 3/32" | 10 | 43 | 14 | 2.381 |
| A1149XPL-2.4 | 2.4 | 0.0945 | | 10 | 43 | 14 | 2.4 |
| A1149XPL-NO41 | 2.438 | 0.0960 | No. 41 | 10 | 43 | 14 | 2.438 |
| A1149XPL-NO40 | 2.489 | 0.0980 | No. 40 | 10 | 43 | 14 | 2.489 |
| A1149XPL-2.5 | 2.5 | 0.0984 | | 10 | 43 | 14 | 2.5 |
| A1149XPL-NO39 | 2.527 | 0.0995 | No. 39 | 10 | 43 | 14 | 2.527 |
| A1149XPL-NO38 | 2.578 | 0.1015 | No. 38 | 10 | 43 | 14 | 2.578 |
| A1149XPL-2.6 | 2.6 | 0.1024 | | 10 | 43 | 14 | 2.6 |
| A1149XPL-NO37 | 2.642 | 0.1040 | No. 37 | 10 | 43 | 14 | 2.642 |
| A1149XPL-2.7 | 2.7 | 0.1063 | | 11 | 46 | 16 | 2.7 |
| A1149XPL-NO36 | 2.705 | 0.1065 | No. 36 | 11 | 46 | 16 | 2.705 |
| A1149XPL-7/64IN | 2.778 | 0.1094 | 7/64" | 11 | 46 | 16 | 2.778 |
| A1149XPL-NO35 | 2.794 | 0.1100 | No. 35 | 11 | 46 | 16 | 2.794 |
| A1149XPL-2.8 | 2.8 | 0.1102 | | 11 | 46 | 16 | 2.8 |
| A1149XPL-NO34 | 2.819 | 0.1110 | No. 34 | 11 | 46 | 16 | 2.819 |
| A1149XPL-NO33 | 2.87 | 0.1130 | No. 33 | 11 | 46 | 16 | 2.87 |
| A1149XPL-2.9 | 2.9 | 0.1142 | | 11 | 46 | 16 | 2.9 |
| A1149XPL-NO32 | 2.946 | 0.1160 | No. 32 | 11 | 46 | 16 | 2.946 |
| A1149XPL-3 | 3 | 0.1181 | | 11 | 46 | 16 | 3 |
| A1149XPL-NO31 | 3.048 | 0.1200 | No. 31 | 12 | 49 | 18 | 3.048 |
| A1149XPL-3.1 | 3.1 | 0.1220 | | 12 | 49 | 18 | 3.1 |
| A1149XPL-1/8IN | 3.175 | 0.1250 | 1/8" | 12 | 49 | 18 | 3.175 |
| A1149XPL-3.2 | 3.2 | 0.1260 | | 12 | 49 | 18 | 3.2 |
| A1149XPL-NO30 | 3.264 | 0.1285 | No. 30 | 12 | 49 | 18 | 3.264 |
| A1149XPL-3.3 | 3.3 | 0.1299 | | 12 | 49 | 18 | 3.3 |
| A1149XPL-3.4 | 3.4 | 0.1339 | | 14 | 52 | 20 | 3.4 |
| A1149XPL-NO29 | 3.454 | 0.1360 | No. 29 | 14 | 52 | 20 | 3.454 |
| A1149XPL-3.5 | 3.5 | 0.1378 | | 14 | 52 | 20 | 3.5 |
| A1149XPL-NO28 | 3.569 | 0.1405 | No. 28 | 14 | 52 | 20 | 3.569 |
| A1149XPL-9/64IN | 3.572 | 0.1406 | 9/64" | 14 | 52 | 20 | 3.572 |
| A1149XPL-3.6 | 3.6 | 0.1417 | | 14 | 52 | 20 | 3.6 |
| A1149XPL-NO27 | 3.658 | 0.1440 | No. 27 | 14 | 52 | 20 | 3.658 |
| A1149XPL-3.7 | 3.7 | 0.1457 | | 14 | 52 | 20 | 3.7 |
| A1149XPL-NO26 | 3.734 | 0.1470 | No. 26 | 14 | 52 | 20 | 3.734 |
| A1149XPL-NO25 | 3.797 | 0.1495 | No. 25 | 15 | 55 | 22 | 3.797 |
| A1149XPL-3.8 | 3.8 | 0.1496 | | 15 | 55 | 22 | 3.8 |
| A1149XPL-NO24 | 3.861 | 0.1520 | No. 24 | 15 | 55 | 22 | 3.861 |
| A1149XPL-3.9 | 3.9 | 0.1535 | | 15 | 55 | 22 | 3.9 |
| A1149XPL-NO23 | 3.912 | 0.1540 | No. 23 | 15 | 55 | 22 | 3.912 |
| A1149XPL-5/32IN | 3.969 | 0.1563 | 5/32" | 15 | 55 | 22 | 3.969 |
| A1149XPL-NO22 | 3.988 | 0.1570 | No. 22 | 15 | 55 | 22 | 3.988 |
| A1149XPL-4 | 4 | 0.1575 | | 15 | 55 | 22 | 4 |
| A1149XPL-NO21 | 4.039 | 0.1590 | No. 21 | 15 | 55 | 22 | 4.039 |
| A1149XPL-NO20 | 4.089 | 0.1610 | No. 20 | 15 | 55 | 22 | 4.089 |
| A1149XPL-4.1 | 4.1 | 0.1614 | | 15 | 55 | 22 | 4.1 |
| A1149XPL-4.2 | 4.2 | 0.1654 | | 15 | 55 | 22 | 4.2 |
| A1149XPL-NO19 | 4.216 | 0.1660 | No. 19 | 15 | 55 | 22 | 4.216 |

## Tool

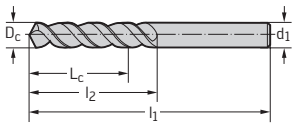



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1149XPL-4.3 | 4.3 | 0.1693 | | 16 | 58 | 24 | 4.3 |
| A1149XPL-NO18 | 4.305 | 0.1695 | No. 18 | 16 | 58 | 24 | 4.305 |
| A1149XPL-11/64IN | 4.366 | 0.1719 | 11/64" | 16 | 58 | 24 | 4.366 |
| A1149XPL-NO17 | 4.394 | 0.1730 | No. 17 | 16 | 58 | 24 | 4.394 |
| A1149XPL-4.4 | 4.4 | 0.1732 | | 16 | 58 | 24 | 4.4 |
| A1149XPL-NO16 | 4.496 | 0.1770 | No. 16 | 16 | 58 | 24 | 4.496 |
| A1149XPL-4.5 | 4.5 | 0.1772 | | 16 | 58 | 24 | 4.5 |
| A1149XPL-NO15 | 4.572 | 0.1800 | No. 15 | 16 | 58 | 24 | 4.572 |
| A1149XPL-4.6 | 4.6 | 0.1811 | | 16 | 58 | 24 | 4.6 |
| A1149XPL-NO14 | 4.623 | 0.1820 | No. 14 | 16 | 58 | 24 | 4.623 |
| A1149XPL-4.65 | 4.65 | 0.1831 | | 16 | 58 | 24 | 4.65 |
| A1149XPL-NO13 | 4.699 | 0.1850 | No. 13 | 16 | 58 | 24 | 4.699 |
| A1149XPL-4.7 | 4.7 | 0.1850 | | 16 | 58 | 24 | 4.7 |
| A1149XPL-3/16IN | 4.763 | 0.1875 | 3/16" | 18 | 62 | 26 | 4.763 |
| A1149XPL-4.8 | 4.8 | 0.1890 | | 18 | 62 | 26 | 4.8 |
| A1149XPL-NO12 | 4.801 | 0.1890 | No. 12 | 18 | 62 | 26 | 4.801 |
| A1149XPL-NO11 | 4.851 | 0.1910 | No. 11 | 18 | 62 | 26 | 4.851 |
| A1149XPL-4.9 | 4.9 | 0.1929 | | 18 | 62 | 26 | 4.9 |
| A1149XPL-NO10 | 4.915 | 0.1935 | No. 10 | 18 | 62 | 26 | 4.915 |
| A1149XPL-NO9 | 4.978 | 0.1960 | No. 09 | 18 | 62 | 26 | 4.978 |
| A1149XPL-5 | 5 | 0.1969 | | 18 | 62 | 26 | 5 |
| A1149XPL-NO8 | 5.055 | 0.1990 | No. 08 | 18 | 62 | 26 | 5.055 |
| A1149XPL-5.1 | 5.1 | 0.2008 | | 18 | 62 | 26 | 5.1 |
| A1149XPL-NO7 | 5.105 | 0.2010 | No. 07 | 18 | 62 | 26 | 5.105 |
| A1149XPL-13/64IN | 5.159 | 0.2031 | 13/64" | 18 | 62 | 26 | 5.159 |
| A1149XPL-NO6 | 5.182 | 0.2040 | No. 06 | 18 | 62 | 26 | 5.182 |
| A1149XPL-5.2 | 5.2 | 0.2047 | | 18 | 62 | 26 | 5.2 |
| A1149XPL-NO5 | 5.22 | 0.2055 | No. 05 | 18 | 62 | 26 | 5.22 |
| A1149XPL-5.3 | 5.3 | 0.2087 | | 18 | 62 | 26 | 5.3 |
| A1149XPL-NO4 | 5.309 | 0.2090 | No. 04 | 19 | 66 | 28 | 5.309 |
| A1149XPL-5.4 | 5.4 | 0.2126 | | 19 | 66 | 28 | 5.4 |
| A1149XPL-NO3 | 5.41 | 0.2130 | No. 03 | 19 | 66 | 28 | 5.41 |
| A1149XPL-5.5 | 5.5 | 0.2165 | | 19 | 66 | 28 | 5.5 |
| A1149XPL-5.55 | 5.55 | 0.2185 | | 19 | 66 | 28 | 5.55 |
| A1149XPL-7/32IN | 5.556 | 0.2187 | 7/32" | 19 | 66 | 28 | 5.556 |
| A1149XPL-5.6 | 5.6 | 0.2205 | | 19 | 66 | 28 | 5.6 |
| A1149XPL-NO2 | 5.613 | 0.2210 | No. 02 | 19 | 66 | 28 | 5.613 |
| A1149XPL-5.7 | 5.7 | 0.2244 | | 19 | 66 | 28 | 5.7 |
| A1149XPL-NO1 | 5.791 | 0.2280 | No. 01 | 19 | 66 | 28 | 5.791 |
| A1149XPL-5.8 | 5.8 | 0.2283 | | 19 | 66 | 28 | 5.8 |
| A1149XPL-5.9 | 5.9 | 0.2323 | | 19 | 66 | 28 | 5.9 |
| A1149XPL-LET.A | 5.944 | 0.2340 | Let. A | 19 | 66 | 28 | 5.944 |
| A1149XPL-15/64IN | 5.953 | 0.2344 | 15/64" | 19 | 66 | 28 | 5.953 |
| A1149XPL-6 | 6 | 0.2362 | | 19 | 66 | 28 | 6 |
| A1149XPL-LET.B | 6.045 | 0.2380 | Let. B | 20 | 70 | 31 | 6.045 |
| A1149XPL-6.1 | 6.1 | 0.2402 | | 20 | 70 | 31 | 6.1 |
| A1149XPL-LET.C | 6.147 | 0.2420 | Let. C | 20 | 70 | 31 | 6.147 |
| A1149XPL-6.2 | 6.2 | 0.2441 | | 20 | 70 | 31 | 6.2 |

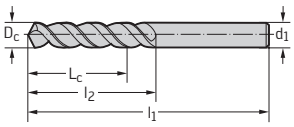
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1149XPL-LET.D | 6.248 | 0.2460 | Let. D | 20 | 70 | 31 | 6.248 |
| A1149XPL-6.3 | 6.3 | 0.2480 | | 20 | 70 | 31 | 6.3 |
| A1149XPL-1/4IN | 6.35 | 0.2500 | 1/4" | 20 | 70 | 31 | 6.35 |
| A1149XPL-6.4 | 6.4 | 0.2520 | | 20 | 70 | 31 | 6.4 |
| A1149XPL-6.5 | 6.5 | 0.2559 | | 20 | 70 | 31 | 6.5 |
| A1149XPL-LET.F | 6.528 | 0.2570 | Let. F | 20 | 70 | 31 | 6.528 |
| A1149XPL-6.6 | 6.6 | 0.2598 | | 20 | 70 | 31 | 6.6 |
| A1149XPL-LET.G | 6.629 | 0.2610 | Let. G | 20 | 70 | 31 | 6.629 |
| A1149XPL-6.7 | 6.7 | 0.2638 | | 20 | 70 | 31 | 6.7 |
| A1149XPL-17/64IN | 6.747 | 0.2656 | 17/64" | 22 | 74 | 34 | 6.747 |
| A1149XPL-LET.H | 6.756 | 0.2660 | Let. H | 22 | 74 | 34 | 6.756 |
| A1149XPL-6.8 | 6.8 | 0.2677 | | 22 | 74 | 34 | 6.8 |
| A1149XPL-6.9 | 6.9 | 0.2717 | | 22 | 74 | 34 | 6.9 |
| A1149XPL-LET.I | 6.909 | 0.2720 | Let. I | 22 | 74 | 34 | 6.909 |
| A1149XPL-7 | 7 | 0.2756 | | 22 | 74 | 34 | 7 |
| A1149XPL-LET.J | 7.036 | 0.2770 | Let. J | 22 | 74 | 34 | 7.036 |
| A1149XPL-7.1 | 7.1 | 0.2795 | | 22 | 74 | 34 | 7.1 |
| A1149XPL-LET.K | 7.137 | 0.2810 | Let. K | 22 | 74 | 34 | 7.137 |
| A1149XPL-9/32IN | 7.144 | 0.2813 | 9/32" | 22 | 74 | 34 | 7.144 |
| A1149XPL-7.2 | 7.2 | 0.2835 | | 22 | 74 | 34 | 7.2 |
| A1149XPL-7.3 | 7.3 | 0.2874 | | 22 | 74 | 34 | 7.3 |
| A1149XPL-LET.L | 7.366 | 0.2900 | Let. L | 22 | 74 | 34 | 7.366 |
| A1149XPL-7.4 | 7.4 | 0.2913 | | 22 | 74 | 34 | 7.4 |
| A1149XPL-LET.M | 7.493 | 0.2950 | Let. M | 22 | 74 | 34 | 7.493 |
| A1149XPL-7.5 | 7.5 | 0.2953 | | 22 | 74 | 34 | 7.5 |
| A1149XPL-19/64IN | 7.541 | 0.2969 | 19/64" | 24 | 79 | 37 | 7.541 |
| A1149XPL-7.6 | 7.6 | 0.2992 | | 24 | 79 | 37 | 7.6 |
| A1149XPL-LET.N | 7.671 | 0.3020 | Let. N | 24 | 79 | 37 | 7.671 |
| A1149XPL-7.7 | 7.7 | 0.3031 | | 24 | 79 | 37 | 7.7 |
| A1149XPL-7.8 | 7.8 | 0.3071 | | 24 | 79 | 37 | 7.8 |
| A1149XPL-7.9 | 7.9 | 0.3110 | | 24 | 79 | 37 | 7.9 |
| A1149XPL-5/16IN | 7.938 | 0.3125 | 5/16" | 24 | 79 | 37 | 7.938 |
| A1149XPL-8 | 8 | 0.3150 | | 24 | 79 | 37 | 8 |
| A1149XPL-LET.O | 8.026 | 0.3160 | Let. O | 24 | 79 | 37 | 8.026 |
| A1149XPL-8.1 | 8.1 | 0.3189 | | 24 | 79 | 37 | 8.1 |
| A1149XPL-8.2 | 8.2 | 0.3228 | | 24 | 79 | 37 | 8.2 |
| A1149XPL-LET.P | 8.204 | 0.3230 | Let. P | 24 | 79 | 37 | 8.204 |
| A1149XPL-8.3 | 8.3 | 0.3268 | | 24 | 79 | 37 | 8.3 |
| A1149XPL-21/64IN | 8.334 | 0.3281 | 21/64" | 24 | 79 | 37 | 8.334 |
| A1149XPL-8.4 | 8.4 | 0.3307 | | 24 | 79 | 37 | 8.4 |
| A1149XPL-LET.Q | 8.433 | 0.3320 | Let. Q | 24 | 79 | 37 | 8.433 |
| A1149XPL-8.5 | 8.5 | 0.3346 | | 24 | 79 | 37 | 8.5 |
| A1149XPL-8.6 | 8.6 | 0.3386 | | 25 | 84 | 40 | 8.6 |
| A1149XPL-LET.R | 8.611 | 0.3390 | Let. R | 25 | 84 | 40 | 8.611 |
| A1149XPL-8.7 | 8.7 | 0.3425 | | 25 | 84 | 40 | 8.7 |
| A1149XPL-11/32IN | 8.731 | 0.3437 | 11/32" | 25 | 84 | 40 | 8.731 |
| A1149XPL-8.8 | 8.8 | 0.3465 | | 25 | 84 | 40 | 8.8 |
| A1149XPL-LET.S | 8.839 | 0.3480 | Let. S | 25 | 84 | 40 | 8.839 |

## Tool

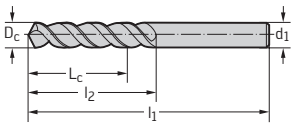



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1149XPL-8.9 | 8.9 | 0.3504 | | 25 | 84 | 40 | 8.9 |
| A1149XPL-9 | 9 | 0.3543 | | 25 | 84 | 40 | 9 |
| A1149XPL-LET.T | 9.093 | 0.3580 | Let. T | 25 | 84 | 40 | 9.093 |
| A1149XPL-9.1 | 9.1 | 0.3583 | | 25 | 84 | 40 | 9.1 |
| A1149XPL-23/64IN | 9.128 | 0.3594 | 23/64" | 25 | 84 | 40 | 9.128 |
| A1149XPL-9.2 | 9.2 | 0.3622 | | 25 | 84 | 40 | 9.2 |
| A1149XPL-9.3 | 9.3 | 0.3661 | | 25 | 84 | 40 | 9.3 |
| A1149XPL-LET.U | 9.347 | 0.3680 | Let. U | 25 | 84 | 40 | 9.347 |
| A1149XPL-9.4 | 9.4 | 0.3701 | | 25 | 84 | 40 | 9.4 |
| A1149XPL-9.5 | 9.5 | 0.3740 | | 25 | 84 | 40 | 9.5 |
| A1149XPL-3/8IN | 9.525 | 0.3750 | 3/8" | 27 | 89 | 43 | 9.525 |
| A1149XPL-LET.V | 9.576 | 0.3770 | Let. V | 27 | 89 | 43 | 9.576 |
| A1149XPL-9.6 | 9.6 | 0.3780 | | 27 | 89 | 43 | 9.6 |
| A1149XPL-9.7 | 9.7 | 0.3819 | | 27 | 89 | 43 | 9.7 |
| A1149XPL-9.8 | 9.8 | 0.3858 | | 27 | 89 | 43 | 9.8 |
| A1149XPL-LET.W | 9.804 | 0.3860 | Let. W | 27 | 89 | 43 | 9.804 |
| A1149XPL-9.9 | 9.9 | 0.3898 | | 27 | 89 | 43 | 9.9 |
| A1149XPL-25/64IN | 9.922 | 0.3906 | 25/64" | 27 | 89 | 43 | 9.922 |
| A1149XPL-10 | 10 | 0.3937 | | 27 | 89 | 43 | 10 |
| A1149XPL-LET.X | 10.084 | 0.3970 | Let. X | 27 | 89 | 43 | 10.084 |
| A1149XPL-10.2 | 10.2 | 0.4016 | | 27 | 89 | 43 | 10.2 |
| A1149XPL-LET.Y | 10.262 | 0.4040 | Let. Y | 27 | 89 | 43 | 10.262 |
| A1149XPL-13/32IN | 10.319 | 0.4063 | 13/32" | 27 | 89 | 43 | 10.319 |
| A1149XPL-LET.Z | 10.49 | 0.4130 | Let. Z | 27 | 89 | 43 | 10.49 |
| A1149XPL-10.5 | 10.5 | 0.4134 | | 27 | 89 | 43 | 10.5 |
| A1149XPL-27/64IN | 10.716 | 0.4219 | 27/64" | 29 | 95 | 47 | 10.716 |
| A1149XPL-10.8 | 10.8 | 0.4252 | | 29 | 95 | 47 | 10.8 |
| A1149XPL-11 | 11 | 0.4331 | | 29 | 95 | 47 | 11 |
| A1149XPL-7/16IN | 11.113 | 0.4375 | 7/16" | 29 | 95 | 47 | 11.113 |
| A1149XPL-11.2 | 11.2 | 0.4409 | | 29 | 95 | 47 | 11.2 |
| A1149XPL-11.3 | 11.3 | 0.4449 | | 29 | 95 | 47 | 11.3 |
| A1149XPL-11.5 | 11.5 | 0.4528 | | 29 | 95 | 47 | 11.5 |
| A1149XPL-29/64IN | 11.509 | 0.4531 | 29/64" | 29 | 95 | 47 | 11.509 |
| A1149XPL-11.8 | 11.8 | 0.4646 | | 29 | 95 | 47 | 11.8 |
| A1149XPL-15/32IN | 11.906 | 0.4687 | 15/32" | 37 | 102 | 51 | 11.906 |
| A1149XPL-12 | 12 | 0.4724 | | 37 | 102 | 51 | 12 |
| A1149XPL-31/64IN | 12.303 | 0.4844 | 31/64" | 37 | 102 | 51 | 12.303 |
| A1149XPL-12.5 | 12.5 | 0.4921 | | 37 | 102 | 51 | 12.5 |
| A1149XPL-1/2IN | 12.7 | 0.5000 | 1/2" | 37 | 102 | 51 | 12.7 |
| A1149XPL-12.8 | 12.8 | 0.5039 | | 37 | 102 | 51 | 12.8 |
| A1149XPL-13 | 13 | 0.5118 | | 37 | 102 | 51 | 13 |
| A1149XPL-33/64IN | 13.097 | 0.5156 | | 37 | 102 | 51 | 13.097 |
| A1149XPL-13.1 | 13.1 | 0.5157 | | 37 | 102 | 51 | 13.1 |
| A1149XPL-13.3 | 13.3 | 0.5236 | | 40 | 107 | 54 | 13.3 |
| A1149XPL-17/32IN | 13.494 | 0.5313 | 17/32" | 40 | 107 | 54 | 13.494 |
| A1149XPL-13.5 | 13.5 | 0.5315 | | 40 | 107 | 54 | 13.5 |
| A1149XPL-35/64IN | 13.891 | 0.5469 | | 40 | 107 | 54 | 13.891 |
| A1149XPL-14 | 14 | 0.5512 | | 40 | 107 | 54 | 14 |

## Tool



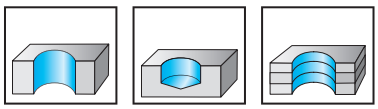

Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1149XPL-9/16IN | 14.288 | 0.5625 | 9/16" | 41 | 111 | 56 | 14.288 |
| A1149XPL-14.5 | 14.5 | 0.5709 | | 41 | 111 | 56 | 14.5 |
| A1149XPL-37/64IN | 14.684 | 0.5781 | 37/64" | 41 | 111 | 56 | 14.684 |
| A1149XPL-15 | 15 | 0.5906 | | 41 | 111 | 56 | 15 |
| A1149XPL-19/32IN | 15.081 | 0.5937 | 19/32" | 42 | 115 | 58 | 15.081 |
| A1149XPL-15.1 | 15.1 | 0.5945 | | 42 | 115 | 58 | 15.1 |
| A1149XPL-15.3 | 15.3 | 0.6024 | | 42 | 115 | 58 | 15.3 |
| A1149XPL-39/64IN | 15.478 | 0.6094 | 39/64" | 42 | 115 | 58 | 15.478 |
| A1149XPL-15.5 | 15.5 | 0.6102 | | 42 | 115 | 58 | 15.5 |
| A1149XPL-5/8IN | 15.875 | 0.625 | 5/8" | 42 | 115 | 58 | 15.875 |
| A1149XPL-16 | 16 | 0.6299 | | 42 | 115 | 58 | 16 |
| A1149XPL-41/64IN | 16.272 | 0.6406 | | 43 | 119 | 60 | 16.272 |
| A1149XPL-16.5 | 16.5 | 0.6496 | | 43 | 119 | 60 | 16.5 |
| A1149XPL-21/32IN | 16.669 | 0.6563 | | 43 | 119 | 60 | 16.669 |
| A1149XPL-17 | 17 | 0.6693 | | 43 | 119 | 60 | 17 |
| A1149XPL-43/64IN | 17.066 | 0.6719 | | 44 | 123 | 62 | 17.066 |
| A1149XPL-11/16IN | 17.463 | 0.6875 | | 44 | 123 | 62 | 17.463 |
| A1149XPL-17.5 | 17.5 | 0.6890 | | 44 | 123 | 62 | 17.5 |
| A1149XPL-45/64IN | 17.859 | 0.7031 | 45/64" | 44 | 123 | 62 | 17.859 |
| A1149XPL-18 | 18 | 0.7087 | | 44 | 123 | 62 | 18 |
| A1149XPL-23/32IN | 18.256 | 0.7187 | 23/32" | 45 | 127 | 64 | 18.256 |
| A1149XPL-18.5 | 18.5 | 0.7283 | | 45 | 127 | 64 | 18.5 |
| A1149XPL-47/64IN | 18.653 | 0.7344 | 47/64" | 45 | 127 | 64 | 18.653 |
| A1149XPL-19 | 19 | 0.7480 | | 45 | 127 | 64 | 19 |
| A1149XPL-3/4IN | 19.05 | 0.7500 | 3/4" | 46 | 131 | 66 | 19.05 |
| A1149XPL-19.5 | 19.5 | 0.7677 | | 46 | 131 | 66 | 19.5 |
| A1149XPL-20 | 20 | 0.7874 | | 46 | 131 | 66 | 20 |

# HSS-E twist drills, extra short

## A1154TFT

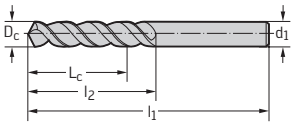
## VA Inox




B1

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

### Tool




Cylindrical shank

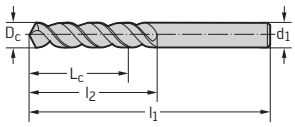
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1154TFT-2 | 2 | 0.0787 | 8 | 38 | 12 | 2 |
| A1154TFT-2.1 | 2.1 | 0.0827 | 8 | 38 | 12 | 2.1 |
| A1154TFT-2.2 | 2.2 | 0.0866 | 9 | 40 | 13 | 2.2 |
| A1154TFT-2.3 | 2.3 | 0.0906 | 9 | 40 | 13 | 2.3 |
| A1154TFT-2.4 | 2.4 | 0.0945 | 10 | 43 | 14 | 2.4 |
| A1154TFT-2.5 | 2.5 | 0.0984 | 10 | 43 | 14 | 2.5 |
| A1154TFT-2.6 | 2.6 | 0.1024 | 10 | 43 | 14 | 2.6 |
| A1154TFT-2.7 | 2.7 | 0.1063 | 11 | 46 | 16 | 2.7 |
| A1154TFT-2.8 | 2.8 | 0.1102 | 11 | 46 | 16 | 2.8 |
| A1154TFT-2.9 | 2.9 | 0.1142 | 11 | 46 | 16 | 2.9 |
| A1154TFT-3 | 3 | 0.1181 | 11 | 46 | 16 | 3 |
| A1154TFT-3.1 | 3.1 | 0.1220 | 12 | 49 | 18 | 3.1 |
| A1154TFT-3.2 | 3.2 | 0.1260 | 12 | 49 | 18 | 3.2 |
| A1154TFT-3.3 | 3.3 | 0.1299 | 12 | 49 | 18 | 3.3 |
| A1154TFT-3.4 | 3.4 | 0.1339 | 14 | 52 | 20 | 3.4 |
| A1154TFT-3.5 | 3.5 | 0.1378 | 14 | 52 | 20 | 3.5 |
| A1154TFT-3.6 | 3.6 | 0.1417 | 14 | 52 | 20 | 3.6 |
| A1154TFT-3.7 | 3.7 | 0.1457 | 14 | 52 | 20 | 3.7 |
| A1154TFT-3.8 | 3.8 | 0.1496 | 15 | 55 | 22 | 3.8 |
| A1154TFT-3.9 | 3.9 | 0.1535 | 15 | 55 | 22 | 3.9 |
| A1154TFT-4 | 4 | 0.1575 | 15 | 55 | 22 | 4 |
| A1154TFT-4.1 | 4.1 | 0.1614 | 15 | 55 | 22 | 4.1 |
| A1154TFT-4.2 | 4.2 | 0.1654 | 15 | 55 | 22 | 4.2 |
| A1154TFT-4.3 | 4.3 | 0.1693 | 16 | 58 | 24 | 4.3 |
| A1154TFT-4.4 | 4.4 | 0.1732 | 16 | 58 | 24 | 4.4 |
| A1154TFT-4.5 | 4.5 | 0.1772 | 16 | 58 | 24 | 4.5 |
| A1154TFT-4.6 | 4.6 | 0.1811 | 16 | 58 | 24 | 4.6 |
| A1154TFT-4.65 | 4.65 | 0.1831 | 16 | 58 | 24 | 4.65 |
| A1154TFT-4.7 | 4.7 | 0.1850 | 16 | 58 | 24 | 4.7 |
| A1154TFT-4.8 | 4.8 | 0.1890 | 18 | 62 | 26 | 4.8 |
| A1154TFT-4.9 | 4.9 | 0.1929 | 18 | 62 | 26 | 4.9 |
| A1154TFT-5 | 5 | 0.1969 | 18 | 62 | 26 | 5 |
| A1154TFT-5.1 | 5.1 | 0.2008 | 18 | 62 | 26 | 5.1 |
| A1154TFT-5.2 | 5.2 | 0.2047 | 18 | 62 | 26 | 5.2 |
| A1154TFT-5.3 | 5.3 | 0.2087 | 18 | 62 | 26 | 5.3 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

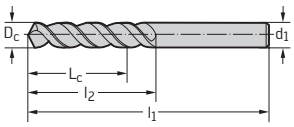
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1154TFT-5.4 | 5.4 | 0.2126 | 19 | 66 | 28 | 5.4 |
| A1154TFT-5.5 | 5.5 | 0.2165 | 19 | 66 | 28 | 5.5 |
| A1154TFT-5.55 | 5.55 | 0.2185 | 19 | 66 | 28 | 5.55 |
| A1154TFT-5.6 | 5.6 | 0.2205 | 19 | 66 | 28 | 5.6 |
| A1154TFT-5.7 | 5.7 | 0.2244 | 19 | 66 | 28 | 5.7 |
| A1154TFT-5.8 | 5.8 | 0.2283 | 19 | 66 | 28 | 5.8 |
| A1154TFT-5.9 | 5.9 | 0.2323 | 19 | 66 | 28 | 5.9 |
| A1154TFT-6 | 6 | 0.2362 | 19 | 66 | 28 | 6 |
| A1154TFT-6.1 | 6.1 | 0.2402 | 20 | 70 | 31 | 6.1 |
| A1154TFT-6.2 | 6.2 | 0.2441 | 20 | 70 | 31 | 6.2 |
| A1154TFT-6.3 | 6.3 | 0.2480 | 20 | 70 | 31 | 6.3 |
| A1154TFT-6.4 | 6.4 | 0.2520 | 20 | 70 | 31 | 6.4 |
| A1154TFT-6.5 | 6.5 | 0.2559 | 20 | 70 | 31 | 6.5 |
| A1154TFT-6.6 | 6.6 | 0.2598 | 20 | 70 | 31 | 6.6 |
| A1154TFT-6.7 | 6.7 | 0.2638 | 20 | 70 | 31 | 6.7 |
| A1154TFT-6.8 | 6.8 | 0.2677 | 22 | 74 | 34 | 6.8 |
| A1154TFT-6.9 | 6.9 | 0.2717 | 22 | 74 | 34 | 6.9 |
| A1154TFT-7 | 7 | 0.2756 | 22 | 74 | 34 | 7 |
| A1154TFT-7.1 | 7.1 | 0.2795 | 22 | 74 | 34 | 7.1 |
| A1154TFT-7.2 | 7.2 | 0.2835 | 22 | 74 | 34 | 7.2 |
| A1154TFT-7.3 | 7.3 | 0.2874 | 22 | 74 | 34 | 7.3 |
| A1154TFT-7.4 | 7.4 | 0.2913 | 22 | 74 | 34 | 7.4 |
| A1154TFT-7.5 | 7.5 | 0.2953 | 22 | 74 | 34 | 7.5 |
| A1154TFT-7.6 | 7.6 | 0.2992 | 24 | 79 | 37 | 7.6 |
| A1154TFT-7.7 | 7.7 | 0.3031 | 24 | 79 | 37 | 7.7 |
| A1154TFT-7.8 | 7.8 | 0.3071 | 24 | 79 | 37 | 7.8 |
| A1154TFT-7.9 | 7.9 | 0.3110 | 24 | 79 | 37 | 7.9 |
| A1154TFT-8 | 8 | 0.3150 | 24 | 79 | 37 | 8 |
| A1154TFT-8.1 | 8.1 | 0.3189 | 24 | 79 | 37 | 8.1 |
| A1154TFT-8.2 | 8.2 | 0.3228 | 24 | 79 | 37 | 8.2 |
| A1154TFT-8.3 | 8.3 | 0.3268 | 24 | 79 | 37 | 8.3 |
| A1154TFT-8.4 | 8.4 | 0.3307 | 24 | 79 | 37 | 8.4 |
| A1154TFT-8.5 | 8.5 | 0.3346 | 24 | 79 | 37 | 8.5 |
| A1154TFT-8.6 | 8.6 | 0.3386 | 25 | 84 | 40 | 8.6 |
| A1154TFT-8.7 | 8.7 | 0.3425 | 25 | 84 | 40 | 8.7 |
| A1154TFT-8.8 | 8.8 | 0.3465 | 25 | 84 | 40 | 8.8 |
| A1154TFT-8.9 | 8.9 | 0.3504 | 25 | 84 | 40 | 8.9 |
| A1154TFT-9 | 9 | 0.3543 | 25 | 84 | 40 | 9 |
| A1154TFT-9.1 | 9.1 | 0.3583 | 25 | 84 | 40 | 9.1 |
| A1154TFT-9.2 | 9.2 | 0.3622 | 25 | 84 | 40 | 9.2 |
| A1154TFT-9.3 | 9.3 | 0.3661 | 25 | 84 | 40 | 9.3 |
| A1154TFT-9.4 | 9.4 | 0.3701 | 25 | 84 | 40 | 9.4 |
| A1154TFT-9.5 | 9.5 | 0.3740 | 25 | 84 | 40 | 9.5 |
| A1154TFT-9.6 | 9.6 | 0.3780 | 27 | 89 | 43 | 9.6 |
| A1154TFT-9.7 | 9.7 | 0.3819 | 27 | 89 | 43 | 9.7 |
| A1154TFT-9.8 | 9.8 | 0.3858 | 27 | 89 | 43 | 9.8 |
| A1154TFT-9.9 | 9.9 | 0.3898 | 27 | 89 | 43 | 9.9 |
| A1154TFT-10 | 10 | 0.3937 | 27 | 89 | 43 | 10 |

## Tool




Cylindrical shank

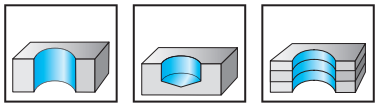
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1154TFT-10.2 | 10.2 | 0.4016 | 27 | 89 | 43 | 10.2 |
| A1154TFT-10.3 | 10.3 | 0.4055 | 27 | 89 | 43 | 10.3 |
| A1154TFT-10.5 | 10.5 | 0.4134 | 27 | 89 | 43 | 10.5 |
| A1154TFT-10.6 | 10.6 | 0.4173 | 27 | 89 | 43 | 10.6 |
| A1154TFT-10.7 | 10.7 | 0.4213 | 29 | 95 | 47 | 10.7 |
| A1154TFT-10.8 | 10.8 | 0.4252 | 29 | 95 | 47 | 10.8 |
| A1154TFT-10.9 | 10.9 | 0.4291 | 29 | 95 | 47 | 10.9 |
| A1154TFT-11 | 11 | 0.4331 | 29 | 95 | 47 | 11 |
| A1154TFT-11.1 | 11.1 | 0.4370 | 29 | 95 | 47 | 11.1 |
| A1154TFT-11.2 | 11.2 | 0.4409 | 29 | 95 | 47 | 11.2 |
| A1154TFT-11.3 | 11.3 | 0.4449 | 29 | 95 | 47 | 11.3 |
| A1154TFT-11.5 | 11.5 | 0.4528 | 29 | 95 | 47 | 11.5 |
| A1154TFT-11.6 | 11.6 | 0.4567 | 29 | 95 | 47 | 11.6 |
| A1154TFT-11.8 | 11.8 | 0.4646 | 29 | 95 | 47 | 11.8 |
| A1154TFT-11.9 | 11.9 | 0.4685 | 37 | 102 | 51 | 11.9 |
| A1154TFT-12 | 12 | 0.4724 | 37 | 102 | 51 | 12 |
| A1154TFT-12.1 | 12.1 | 0.4764 | 37 | 102 | 51 | 12.1 |
| A1154TFT-12.3 | 12.3 | 0.4843 | 37 | 102 | 51 | 12.3 |
| A1154TFT-12.5 | 12.5 | 0.4921 | 37 | 102 | 51 | 12.5 |
| A1154TFT-12.6 | 12.6 | 0.4961 | 37 | 102 | 51 | 12.6 |
| A1154TFT-12.7 | 12.7 | 0.5000 | 37 | 102 | 51 | 12.7 |
| A1154TFT-13 | 13 | 0.5118 | 37 | 102 | 51 | 13 |
| A1154TFT-13.1 | 13.1 | 0.5157 | 37 | 102 | 51 | 13.1 |
| A1154TFT-13.2 | 13.2 | 0.5197 | 37 | 102 | 51 | 13.2 |
| A1154TFT-13.3 | 13.3 | 0.5236 | 40 | 107 | 54 | 13.3 |
| A1154TFT-13.4 | 13.4 | 0.5276 | 40 | 107 | 54 | 13.4 |
| A1154TFT-13.5 | 13.5 | 0.5315 | 40 | 107 | 54 | 13.5 |
| A1154TFT-13.6 | 13.6 | 0.5354 | 40 | 107 | 54 | 13.6 |
| A1154TFT-14 | 14 | 0.5512 | 40 | 107 | 54 | 14 |
| A1154TFT-14.1 | 14.1 | 0.5551 | 41 | 111 | 56 | 14.1 |
| A1154TFT-14.2 | 14.2 | 0.5591 | 41 | 111 | 56 | 14.2 |
| A1154TFT-14.5 | 14.5 | 0.5709 | 41 | 111 | 56 | 14.5 |
| A1154TFT-14.8 | 14.8 | 0.5827 | 41 | 111 | 56 | 14.8 |
| A1154TFT-15 | 15 | 0.5906 | 41 | 111 | 56 | 15 |
| A1154TFT-15.1 | 15.1 | 0.5945 | 42 | 115 | 58 | 15.1 |
| A1154TFT-15.2 | 15.2 | 0.5984 | 42 | 115 | 58 | 15.2 |
| A1154TFT-15.3 | 15.3 | 0.6024 | 42 | 115 | 58 | 15.3 |
| A1154TFT-15.5 | 15.5 | 0.6102 | 42 | 115 | 58 | 15.5 |
| A1154TFT-15.8 | 15.8 | 0.6220 | 42 | 115 | 58 | 15.8 |
| A1154TFT-16 | 16 | 0.6299 | 42 | 115 | 58 | 16 |

# HSS-E twist drills, extra short

## A1148

## UFL®

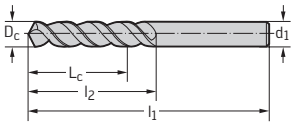
– Uncoated up to 1.9 mm




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

B1

## Tool




Cylindrical shank

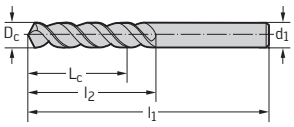
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1148-1 | 1 | 0.0394 | | 4 | 26 | 6 | 1 |
| A1148-NO60 | 1.016 | 0.0400 | No. 60 | 4 | 26 | 6 | 1.016 |
| A1148-NO59 | 1.041 | 0.0410 | No. 59 | 4 | 26 | 6 | 1.041 |
| A1148-NO58 | 1.067 | 0.0420 | No. 58 | 5 | 28 | 7 | 1.067 |
| A1148-NO57 | 1.092 | 0.0430 | No. 57 | 5 | 28 | 7 | 1.092 |
| A1148-1.1 | 1.1 | 0.0433 | | 5 | 28 | 7 | 1.1 |
| A1148-NO56 | 1.181 | 0.0465 | No. 56 | 6 | 30 | 8 | 1.181 |
| A1148-3/64IN | 1.191 | 0.0469 | 3/64" | 6 | 30 | 8 | 1.191 |
| A1148-1.2 | 1.2 | 0.0472 | | 6 | 30 | 8 | 1.2 |
| A1148-1.3 | 1.3 | 0.0512 | | 6 | 30 | 8 | 1.3 |
| A1148-NO55 | 1.321 | 0.0520 | No. 55 | 6 | 32 | 9 | 1.321 |
| A1148-NO54 | 1.397 | 0.0550 | No. 54 | 6 | 32 | 9 | 1.397 |
| A1148-1.4 | 1.4 | 0.0551 | | 6 | 32 | 9 | 1.4 |
| A1148-1.5 | 1.5 | 0.0591 | | 6 | 32 | 9 | 1.5 |
| A1148-NO53 | 1.511 | 0.0595 | No. 53 | 7 | 34 | 10 | 1.511 |
| A1148-1/16IN | 1.588 | 0.0625 | 1/16" | 7 | 34 | 10 | 1.588 |
| A1148-1.6 | 1.6 | 0.0630 | | 7 | 34 | 10 | 1.6 |
| A1148-NO52 | 1.613 | 0.0635 | No. 52 | 7 | 34 | 10 | 1.613 |
| A1148-1.7 | 1.7 | 0.0669 | | 7 | 34 | 10 | 1.7 |
| A1148-NO51 | 1.702 | 0.0670 | No. 51 | 8 | 36 | 11 | 1.702 |
| A1148-NO50 | 1.778 | 0.0700 | No. 50 | 8 | 36 | 11 | 1.778 |
| A1148-1.8 | 1.8 | 0.0709 | | 8 | 36 | 11 | 1.8 |
| A1148-NO49 | 1.854 | 0.0730 | No. 49 | 8 | 36 | 11 | 1.854 |
| A1148-1.9 | 1.9 | 0.0748 | | 8 | 36 | 11 | 1.9 |
| A1148-NO48 | 1.93 | 0.0760 | No. 48 | 8 | 38 | 12 | 1.93 |
| A1148-5/64IN | 1.984 | 0.0781 | 5/64" | 8 | 38 | 12 | 1.984 |
| A1148-NO47 | 1.994 | 0.0785 | No. 47 | 8 | 38 | 12 | 1.994 |
| A1148-2 | 2 | 0.0787 | | 8 | 38 | 12 | 2 |
| A1148-NO46 | 2.057 | 0.0810 | No. 46 | 8 | 38 | 12 | 2.057 |
| A1148-NO45 | 2.083 | 0.0820 | No. 45 | 8 | 38 | 12 | 2.083 |
| A1148-2.1 | 2.1 | 0.0827 | | 8 | 38 | 12 | 2.1 |
| A1148-NO44 | 2.184 | 0.0860 | No. 44 | 9 | 40 | 13 | 2.184 |
| A1148-2.2 | 2.2 | 0.0866 | | 9 | 40 | 13 | 2.2 |
| A1148-NO43 | 2.261 | 0.0890 | No. 43 | 9 | 40 | 13 | 2.261 |
| A1148-2.3 | 2.3 | 0.0906 | | 9 | 40 | 13 | 2.3 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

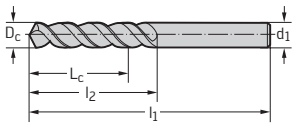



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1148-NO42 | 2.375 | 0.0935 | No. 42 | 10 | 43 | 14 | 2.375 |
| A1148-3/32IN | 2.381 | 0.0937 | 3/32" | 10 | 43 | 14 | 2.381 |
| A1148-2.4 | 2.4 | 0.0945 | | 10 | 43 | 14 | 2.4 |
| A1148-NO41 | 2.438 | 0.0960 | No. 41 | 10 | 43 | 14 | 2.438 |
| A1148-NO40 | 2.489 | 0.0980 | No. 40 | 10 | 43 | 14 | 2.489 |
| A1148-2.5 | 2.5 | 0.0984 | | 10 | 43 | 14 | 2.5 |
| A1148-NO39 | 2.527 | 0.0995 | No. 39 | 10 | 43 | 14 | 2.527 |
| A1148-NO38 | 2.578 | 0.1015 | No. 38 | 10 | 43 | 14 | 2.578 |
| A1148-2.6 | 2.6 | 0.1024 | | 10 | 43 | 14 | 2.6 |
| A1148-NO37 | 2.642 | 0.1040 | No. 37 | 10 | 43 | 14 | 2.642 |
| A1148-2.7 | 2.7 | 0.1063 | | 11 | 46 | 16 | 2.7 |
| A1148-NO36 | 2.705 | 0.1065 | No. 36 | 11 | 46 | 16 | 2.705 |
| A1148-7/64IN | 2.778 | 0.1094 | 7/64" | 11 | 46 | 16 | 2.778 |
| A1148-NO35 | 2.794 | 0.1100 | No. 35 | 11 | 46 | 16 | 2.794 |
| A1148-2.8 | 2.8 | 0.1102 | | 11 | 46 | 16 | 2.8 |
| A1148-NO34 | 2.819 | 0.1110 | No. 34 | 11 | 46 | 16 | 2.819 |
| A1148-NO33 | 2.87 | 0.1130 | No. 33 | 11 | 46 | 16 | 2.87 |
| A1148-2.9 | 2.9 | 0.1142 | | 11 | 46 | 16 | 2.9 |
| A1148-NO32 | 2.946 | 0.1160 | No. 32 | 11 | 46 | 16 | 2.946 |
| A1148-3 | 3 | 0.1181 | | 11 | 46 | 16 | 3 |
| A1148-NO31 | 3.048 | 0.1200 | No. 31 | 12 | 49 | 18 | 3.048 |
| A1148-3.1 | 3.1 | 0.1220 | | 12 | 49 | 18 | 3.1 |
| A1148-1/8IN | 3.175 | 0.1250 | 1/8" | 12 | 49 | 18 | 3.175 |
| A1148-3.2 | 3.2 | 0.1260 | | 12 | 49 | 18 | 3.2 |
| A1148-NO30 | 3.264 | 0.1285 | No. 30 | 12 | 49 | 18 | 3.264 |
| A1148-3.3 | 3.3 | 0.1299 | | 12 | 49 | 18 | 3.3 |
| A1148-3.4 | 3.4 | 0.1339 | | 14 | 52 | 20 | 3.4 |
| A1148-NO29 | 3.454 | 0.1360 | No. 29 | 14 | 52 | 20 | 3.454 |
| A1148-3.5 | 3.5 | 0.1378 | | 14 | 52 | 20 | 3.5 |
| A1148-NO28 | 3.569 | 0.1405 | No. 28 | 14 | 52 | 20 | 3.569 |
| A1148-9/64IN | 3.572 | 0.1406 | 9/64" | 14 | 52 | 20 | 3.572 |
| A1148-3.6 | 3.6 | 0.1417 | | 14 | 52 | 20 | 3.6 |
| A1148-NO27 | 3.658 | 0.1440 | No. 27 | 14 | 52 | 20 | 3.658 |
| A1148-3.7 | 3.7 | 0.1457 | | 14 | 52 | 20 | 3.7 |
| A1148-NO26 | 3.734 | 0.1470 | No. 26 | 14 | 52 | 20 | 3.734 |
| A1148-NO25 | 3.797 | 0.1495 | No. 25 | 15 | 55 | 22 | 3.797 |
| A1148-3.8 | 3.8 | 0.1496 | | 15 | 55 | 22 | 3.8 |
| A1148-NO24 | 3.861 | 0.1520 | No. 24 | 15 | 55 | 22 | 3.861 |
| A1148-3.9 | 3.9 | 0.1535 | | 15 | 55 | 22 | 3.9 |
| A1148-NO23 | 3.912 | 0.1540 | No. 23 | 15 | 55 | 22 | 3.912 |
| A1148-5/32IN | 3.969 | 0.1563 | 5/32" | 15 | 55 | 22 | 3.969 |
| A1148-NO22 | 3.988 | 0.1570 | No. 22 | 15 | 55 | 22 | 3.988 |
| A1148-4 | 4 | 0.1575 | | 15 | 55 | 22 | 4 |
| A1148-NO21 | 4.039 | 0.1590 | No. 21 | 15 | 55 | 22 | 4.039 |
| A1148-NO20 | 4.089 | 0.1610 | No. 20 | 15 | 55 | 22 | 4.089 |
| A1148-4.1 | 4.1 | 0.1614 | | 15 | 55 | 22 | 4.1 |
| A1148-4.2 | 4.2 | 0.1654 | | 15 | 55 | 22 | 4.2 |
| A1148-NO19 | 4.216 | 0.1660 | No. 19 | 15 | 55 | 22 | 4.216 |

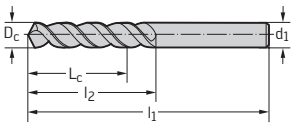
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1148-4.3 | 4.3 | 0.1693 | | 16 | 58 | 24 | 4.3 |
| A1148-NO18 | 4.305 | 0.1695 | No. 18 | 16 | 58 | 24 | 4.305 |
| A1148-11/64IN | 4.366 | 0.1719 | 11/64" | 16 | 58 | 24 | 4.366 |
| A1148-NO17 | 4.394 | 0.1730 | No. 17 | 16 | 58 | 24 | 4.394 |
| A1148-4.4 | 4.4 | 0.1732 | | 16 | 58 | 24 | 4.4 |
| A1148-NO16 | 4.496 | 0.1770 | No. 16 | 16 | 58 | 24 | 4.496 |
| A1148-4.5 | 4.5 | 0.1772 | | 16 | 58 | 24 | 4.5 |
| A1148-NO15 | 4.572 | 0.1800 | No. 15 | 16 | 58 | 24 | 4.572 |
| A1148-4.6 | 4.6 | 0.1811 | | 16 | 58 | 24 | 4.6 |
| A1148-NO14 | 4.623 | 0.1820 | No. 14 | 16 | 58 | 24 | 4.623 |
| A1148-NO13 | 4.699 | 0.1850 | No. 13 | 16 | 58 | 24 | 4.699 |
| A1148-4.7 | 4.7 | 0.1850 | | 16 | 58 | 24 | 4.7 |
| A1148-3/16IN | 4.763 | 0.1875 | 3/16" | 18 | 62 | 26 | 4.763 |
| A1148-4.8 | 4.8 | 0.1890 | | 18 | 62 | 26 | 4.8 |
| A1148-NO12 | 4.801 | 0.1890 | No. 12 | 18 | 62 | 26 | 4.801 |
| A1148-NO11 | 4.851 | 0.1910 | No. 11 | 18 | 62 | 26 | 4.851 |
| A1148-4.9 | 4.9 | 0.1929 | | 18 | 62 | 26 | 4.9 |
| A1148-NO10 | 4.915 | 0.1935 | No. 10 | 18 | 62 | 26 | 4.915 |
| A1148-NO9 | 4.978 | 0.1960 | No. 09 | 18 | 62 | 26 | 4.978 |
| A1148-5 | 5 | 0.1969 | | 18 | 62 | 26 | 5 |
| A1148-NO8 | 5.055 | 0.1990 | No. 08 | 18 | 62 | 26 | 5.055 |
| A1148-5.1 | 5.1 | 0.2008 | | 18 | 62 | 26 | 5.1 |
| A1148-NO7 | 5.105 | 0.2010 | No. 07 | 18 | 62 | 26 | 5.105 |
| A1148-13/64IN | 5.159 | 0.2031 | 13/64" | 18 | 62 | 26 | 5.159 |
| A1148-NO6 | 5.182 | 0.2040 | No. 06 | 18 | 62 | 26 | 5.182 |
| A1148-5.2 | 5.2 | 0.2047 | | 18 | 62 | 26 | 5.2 |
| A1148-NO5 | 5.22 | 0.2055 | No. 05 | 18 | 62 | 26 | 5.22 |
| A1148-5.3 | 5.3 | 0.2087 | | 18 | 62 | 26 | 5.3 |
| A1148-NO4 | 5.309 | 0.2090 | No. 04 | 19 | 66 | 28 | 5.309 |
| A1148-5.4 | 5.4 | 0.2126 | | 19 | 66 | 28 | 5.4 |
| A1148-NO3 | 5.41 | 0.2130 | No. 03 | 19 | 66 | 28 | 5.41 |
| A1148-5.5 | 5.5 | 0.2165 | | 19 | 66 | 28 | 5.5 |
| A1148-7/32IN | 5.556 | 0.2187 | 7/32" | 19 | 66 | 28 | 5.556 |
| A1148-5.6 | 5.6 | 0.2205 | | 19 | 66 | 28 | 5.6 |
| A1148-NO2 | 5.613 | 0.2210 | No. 02 | 19 | 66 | 28 | 5.613 |
| A1148-5.7 | 5.7 | 0.2244 | | 19 | 66 | 28 | 5.7 |
| A1148-NO1 | 5.791 | 0.2280 | No. 01 | 19 | 66 | 28 | 5.791 |
| A1148-5.8 | 5.8 | 0.2283 | | 19 | 66 | 28 | 5.8 |
| A1148-5.9 | 5.9 | 0.2323 | | 19 | 66 | 28 | 5.9 |
| A1148-LET.A | 5.944 | 0.2340 | Let. A | 19 | 66 | 28 | 5.944 |
| A1148-15/64IN | 5.953 | 0.2344 | 15/64" | 19 | 66 | 28 | 5.953 |
| A1148-6 | 6 | 0.2362 | | 19 | 66 | 28 | 6 |
| A1148-LET.B | 6.045 | 0.2380 | Let. B | 20 | 70 | 31 | 6.045 |
| A1148-6.1 | 6.1 | 0.2402 | | 20 | 70 | 31 | 6.1 |
| A1148-LET.C | 6.147 | 0.2420 | Let. C | 20 | 70 | 31 | 6.147 |
| A1148-6.2 | 6.2 | 0.2441 | | 20 | 70 | 31 | 6.2 |
| A1148-LET.D | 6.248 | 0.2460 | Let. D | 20 | 70 | 31 | 6.248 |
| A1148-6.3 | 6.3 | 0.2480 | | 20 | 70 | 31 | 6.3 |

## Tool

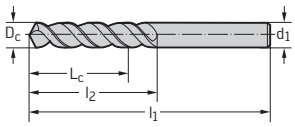



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1148-1/4IN | 6.35 | 0.2500 | 1/4" | 20 | 70 | 31 | 6.35 |
| A1148-6.4 | 6.4 | 0.2520 | | 20 | 70 | 31 | 6.4 |
| A1148-6.5 | 6.5 | 0.2559 | | 20 | 70 | 31 | 6.5 |
| A1148-LET.F | 6.528 | 0.2570 | Let. F | 20 | 70 | 31 | 6.528 |
| A1148-6.6 | 6.6 | 0.2598 | | 20 | 70 | 31 | 6.6 |
| A1148-LET.G | 6.629 | 0.2610 | Let. G | 20 | 70 | 31 | 6.629 |
| A1148-6.7 | 6.7 | 0.2638 | | 20 | 70 | 31 | 6.7 |
| A1148-17/64IN | 6.747 | 0.2656 | 17/64" | 22 | 74 | 34 | 6.747 |
| A1148-LET.H | 6.756 | 0.2660 | Let. H | 22 | 74 | 34 | 6.756 |
| A1148-6.8 | 6.8 | 0.2677 | | 22 | 74 | 34 | 6.8 |
| A1148-6.9 | 6.9 | 0.2717 | | 22 | 74 | 34 | 6.9 |
| A1148-LET.I | 6.909 | 0.2720 | Let. I | 22 | 74 | 34 | 6.909 |
| A1148-7 | 7 | 0.2756 | | 22 | 74 | 34 | 7 |
| A1148-LET.J | 7.036 | 0.2770 | Let. J | 22 | 74 | 34 | 7.036 |
| A1148-7.1 | 7.1 | 0.2795 | | 22 | 74 | 34 | 7.1 |
| A1148-LET.K | 7.137 | 0.2810 | Let. K | 22 | 74 | 34 | 7.137 |
| A1148-9/32IN | 7.144 | 0.2813 | 9/32" | 22 | 74 | 34 | 7.144 |
| A1148-7.2 | 7.2 | 0.2835 | | 22 | 74 | 34 | 7.2 |
| A1148-7.3 | 7.3 | 0.2874 | | 22 | 74 | 34 | 7.3 |
| A1148-LET.L | 7.366 | 0.2900 | Let. L | 22 | 74 | 34 | 7.366 |
| A1148-7.4 | 7.4 | 0.2913 | | 22 | 74 | 34 | 7.4 |
| A1148-LET.M | 7.493 | 0.2950 | Let. M | 22 | 74 | 34 | 7.493 |
| A1148-7.5 | 7.5 | 0.2953 | | 22 | 74 | 34 | 7.5 |
| A1148-19/64IN | 7.541 | 0.2969 | 19/64" | 24 | 79 | 37 | 7.541 |
| A1148-7.6 | 7.6 | 0.2992 | | 24 | 79 | 37 | 7.6 |
| A1148-LET.N | 7.671 | 0.3020 | Let. N | 24 | 79 | 37 | 7.671 |
| A1148-7.7 | 7.7 | 0.3031 | | 24 | 79 | 37 | 7.7 |
| A1148-7.8 | 7.8 | 0.3071 | | 24 | 79 | 37 | 7.8 |
| A1148-7.9 | 7.9 | 0.3110 | | 24 | 79 | 37 | 7.9 |
| A1148-5/16IN | 7.938 | 0.3125 | 5/16" | 24 | 79 | 37 | 7.938 |
| A1148-8 | 8 | 0.3150 | | 24 | 79 | 37 | 8 |
| A1148-LET.O | 8.026 | 0.3160 | Let. O | 24 | 79 | 37 | 8.026 |
| A1148-8.1 | 8.1 | 0.3189 | | 24 | 79 | 37 | 8.1 |
| A1148-8.2 | 8.2 | 0.3228 | | 24 | 79 | 37 | 8.2 |
| A1148-LET.P | 8.204 | 0.3230 | Let. P | 24 | 79 | 37 | 8.204 |
| A1148-8.3 | 8.3 | 0.3268 | | 24 | 79 | 37 | 8.3 |
| A1148-21/64IN | 8.334 | 0.3281 | 21/64" | 24 | 79 | 37 | 8.334 |
| A1148-8.4 | 8.4 | 0.3307 | | 24 | 79 | 37 | 8.4 |
| A1148-LET.Q | 8.433 | 0.3320 | Let. Q | 24 | 79 | 37 | 8.433 |
| A1148-8.5 | 8.5 | 0.3346 | | 24 | 79 | 37 | 8.5 |
| A1148-8.6 | 8.6 | 0.3386 | | 25 | 84 | 40 | 8.6 |
| A1148-LET.R | 8.611 | 0.3390 | Let. R | 25 | 84 | 40 | 8.611 |
| A1148-8.7 | 8.7 | 0.3425 | | 25 | 84 | 40 | 8.7 |
| A1148-11/32IN | 8.731 | 0.3437 | 11/32" | 25 | 84 | 40 | 8.731 |
| A1148-8.8 | 8.8 | 0.3465 | | 25 | 84 | 40 | 8.8 |
| A1148-LET.S | 8.839 | 0.3480 | Let. S | 25 | 84 | 40 | 8.839 |
| A1148-8.9 | 8.9 | 0.3504 | | 25 | 84 | 40 | 8.9 |
| A1148-9 | 9 | 0.3543 | | 25 | 84 | 40 | 9 |

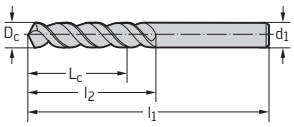
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1148-LET.T | 9.093 | 0.3580 | Let. T | 25 | 84 | 40 | 9.093 |
| A1148-9.1 | 9.1 | 0.3583 | | 25 | 84 | 40 | 9.1 |
| A1148-23/64IN | 9.128 | 0.3594 | 23/64" | 25 | 84 | 40 | 9.128 |
| A1148-9.2 | 9.2 | 0.3622 | | 25 | 84 | 40 | 9.2 |
| A1148-9.3 | 9.3 | 0.3661 | | 25 | 84 | 40 | 9.3 |
| A1148-LET.U | 9.347 | 0.3680 | Let. U | 25 | 84 | 40 | 9.347 |
| A1148-9.4 | 9.4 | 0.3701 | | 25 | 84 | 40 | 9.4 |
| A1148-9.5 | 9.5 | 0.3740 | | 25 | 84 | 40 | 9.5 |
| A1148-3/8IN | 9.525 | 0.3750 | 3/8" | 27 | 89 | 43 | 9.525 |
| A1148-LET.V | 9.576 | 0.3770 | Let. V | 27 | 89 | 43 | 9.576 |
| A1148-9.6 | 9.6 | 0.3780 | | 27 | 89 | 43 | 9.6 |
| A1148-9.7 | 9.7 | 0.3819 | | 27 | 89 | 43 | 9.7 |
| A1148-9.8 | 9.8 | 0.3858 | | 27 | 89 | 43 | 9.8 |
| A1148-LET.W | 9.804 | 0.3860 | Let. W | 27 | 89 | 43 | 9.804 |
| A1148-9.9 | 9.9 | 0.3898 | | 27 | 89 | 43 | 9.9 |
| A1148-25/64IN | 9.922 | 0.3906 | 25/64" | 27 | 89 | 43 | 9.922 |
| A1148-10 | 10 | 0.3937 | | 27 | 89 | 43 | 10 |
| A1148-LET.X | 10.084 | 0.3970 | Let. X | 27 | 89 | 43 | 10.084 |
| A1148-10.2 | 10.2 | 0.4016 | | 27 | 89 | 43 | 10.2 |
| A1148-LET.Y | 10.262 | 0.4040 | Let. Y | 27 | 89 | 43 | 10.262 |
| A1148-13/32IN | 10.319 | 0.4063 | 13/32" | 27 | 89 | 43 | 10.319 |
| A1148-LET.Z | 10.49 | 0.4130 | Let. Z | 27 | 89 | 43 | 10.49 |
| A1148-10.5 | 10.5 | 0.4134 | | 27 | 89 | 43 | 10.5 |
| A1148-27/64IN | 10.716 | 0.4219 | 27/64" | 29 | 95 | 47 | 10.716 |
| A1148-10.8 | 10.8 | 0.4252 | | 29 | 95 | 47 | 10.8 |
| A1148-11 | 11 | 0.4331 | | 29 | 95 | 47 | 11 |
| A1148-7/16IN | 11.113 | 0.4375 | 7/16" | 29 | 95 | 47 | 11.113 |
| A1148-11.2 | 11.2 | 0.4409 | | 29 | 95 | 47 | 11.2 |
| A1148-11.5 | 11.5 | 0.4528 | | 29 | 95 | 47 | 11.5 |
| A1148-29/64IN | 11.509 | 0.4531 | 29/64" | 29 | 95 | 47 | 11.509 |
| A1148-11.8 | 11.8 | 0.4646 | | 29 | 95 | 47 | 11.8 |
| A1148-15/32IN | 11.906 | 0.4687 | 15/32" | 37 | 102 | 51 | 11.906 |
| A1148-12 | 12 | 0.4724 | | 37 | 102 | 51 | 12 |
| A1148-31/64IN | 12.303 | 0.4844 | 31/64" | 37 | 102 | 51 | 12.303 |
| A1148-12.5 | 12.5 | 0.4921 | | 37 | 102 | 51 | 12.5 |
| A1148-1/2IN | 12.7 | 0.5000 | 1/2" | 37 | 102 | 51 | 12.7 |
| A1148-12.8 | 12.8 | 0.5039 | | 37 | 102 | 51 | 12.8 |
| A1148-13 | 13 | 0.5118 | | 37 | 102 | 51 | 13 |
| A1148-33/64IN | 13.097 | 0.5156 | | 37 | 102 | 51 | 13.097 |
| A1148-13.3 | 13.3 | 0.5236 | | 40 | 107 | 54 | 13.3 |
| A1148-17/32IN | 13.494 | 0.5313 | 17/32" | 40 | 107 | 54 | 13.494 |
| A1148-13.5 | 13.5 | 0.5315 | | 40 | 107 | 54 | 13.5 |
| A1148-35/64IN | 13.891 | 0.5469 | | 40 | 107 | 54 | 13.891 |
| A1148-14 | 14 | 0.5512 | | 40 | 107 | 54 | 14 |
| A1148-9/16IN | 14.288 | 0.5625 | 9/16" | 41 | 111 | 56 | 14.288 |
| A1148-14.5 | 14.5 | 0.5709 | | 41 | 111 | 56 | 14.5 |
| A1148-37/64IN | 14.684 | 0.5781 | 37/64" | 41 | 111 | 56 | 14.684 |
| A1148-15 | 15 | 0.5906 | | 41 | 111 | 56 | 15 |

## Tool




Cylindrical shank

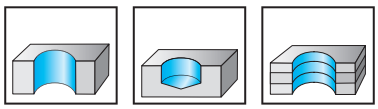
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1148-19/32IN | 15.081 | 0.5937 | 19/32" | 42 | 115 | 58 | 15.081 |
| A1148-15.3 | 15.3 | 0.6024 | | 42 | 115 | 58 | 15.3 |
| A1148-39/64IN | 15.478 | 0.6094 | 39/64" | 42 | 115 | 58 | 15.478 |
| A1148-15.5 | 15.5 | 0.6102 | | 42 | 115 | 58 | 15.5 |
| A1148-5/8IN | 15.875 | 0.6250 | 5/8" | 42 | 115 | 58 | 15.875 |
| A1148-16 | 16 | 0.6299 | | 42 | 115 | 58 | 16 |
| A1148-41/64IN | 16.272 | 0.6406 | | 43 | 119 | 60 | 16.272 |
| A1148-16.5 | 16.5 | 0.6496 | | 43 | 119 | 60 | 16.5 |
| A1148-21/32IN | 16.669 | 0.6563 | | 43 | 119 | 60 | 16.669 |
| A1148-17 | 17 | 0.6693 | | 43 | 119 | 60 | 17 |
| A1148-43/64IN | 17.066 | 0.6719 | | 44 | 123 | 62 | 17.066 |
| A1148-11/16IN | 17.463 | 0.6875 | | 44 | 123 | 62 | 17.463 |
| A1148-17.5 | 17.5 | 0.6890 | | 44 | 123 | 62 | 17.5 |
| A1148-45/64IN | 17.859 | 0.7031 | 45/64" | 44 | 123 | 62 | 17.859 |
| A1148-18 | 18 | 0.7087 | | 44 | 123 | 62 | 18 |
| A1148-23/32IN | 18.256 | 0.7187 | 23/32" | 45 | 127 | 64 | 18.256 |
| A1148-18.5 | 18.5 | 0.7283 | | 45 | 127 | 64 | 18.5 |
| A1148-47/64IN | 18.653 | 0.7344 | 47/64" | 45 | 127 | 64 | 18.653 |
| A1148-19 | 19 | 0.7480 | | 45 | 127 | 64 | 19 |
| A1148-3/4IN | 19.05 | 0.7500 | 3/4" | 46 | 131 | 66 | 19.05 |
| A1148-19.5 | 19.5 | 0.7677 | | 46 | 131 | 66 | 19.5 |
| A1148-20 | 20 | 0.7874 | | 46 | 131 | 66 | 20 |

# HSS-E micro drills

## A3143



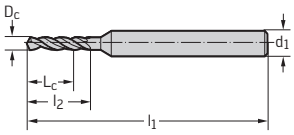
– Type ESU




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

B1

### Tool




Cylindrical shank

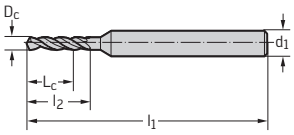
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A3143-0.05 | 0.05 | 0.0020 | 0.2 | 25 | 0.3 | 1 |
| A3143-0.06 | 0.06 | 0.0024 | 0.2 | 25 | 0.3 | 1 |
| A3143-0.07 | 0.07 | 0.0028 | 0.2 | 25 | 0.4 | 1 |
| A3143-0.08 | 0.08 | 0.0031 | 0.2 | 25 | 0.4 | 1 |
| A3143-0.09 | 0.09 | 0.0035 | 0.2 | 25 | 0.4 | 1 |
| A3143-0.1 | 0.1 | 0.0039 | 0.3 | 25 | 0.5 | 1 |
| A3143-0.11 | 0.11 | 0.0043 | 0.3 | 25 | 0.5 | 1 |
| A3143-0.12 | 0.12 | 0.0047 | 0.3 | 25 | 0.5 | 1 |
| A3143-0.13 | 0.13 | 0.0051 | 0.5 | 25 | 0.8 | 1 |
| A3143-0.14 | 0.14 | 0.0055 | 0.5 | 25 | 0.8 | 1 |
| A3143-0.15 | 0.15 | 0.0059 | 0.5 | 25 | 0.8 | 1 |
| A3143-0.16 | 0.16 | 0.0063 | 0.8 | 25 | 1.1 | 1 |
| A3143-0.17 | 0.17 | 0.0067 | 0.8 | 25 | 1.1 | 1 |
| A3143-0.18 | 0.18 | 0.0071 | 0.8 | 25 | 1.1 | 1 |
| A3143-0.19 | 0.19 | 0.0075 | 0.8 | 25 | 1.1 | 1 |
| A3143-0.2 | 0.2 | 0.0079 | 1.1 | 25 | 1.5 | 1 |
| A3143-0.21 | 0.21 | 0.0083 | 1.1 | 25 | 1.5 | 1 |
| A3143-0.22 | 0.22 | 0.0087 | 1.1 | 25 | 1.5 | 1 |
| A3143-0.23 | 0.23 | 0.0091 | 1.1 | 25 | 1.5 | 1 |
| A3143-0.24 | 0.24 | 0.0094 | 1.1 | 25 | 1.5 | 1 |
| A3143-0.25 | 0.25 | 0.0098 | 1.4 | 25 | 1.9 | 1 |
| A3143-0.26 | 0.26 | 0.0102 | 1.4 | 25 | 1.9 | 1 |
| A3143-0.27 | 0.27 | 0.0106 | 1.4 | 25 | 1.9 | 1 |
| A3143-0.28 | 0.28 | 0.0110 | 1.4 | 25 | 1.9 | 1 |
| A3143-0.29 | 0.29 | 0.0114 | 1.4 | 25 | 1.9 | 1 |
| A3143-0.3 | 0.3 | 0.0118 | 1.4 | 25 | 1.9 | 1 |
| A3143-0.31 | 0.31 | 0.0122 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.32 | 0.32 | 0.0126 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.33 | 0.33 | 0.0130 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.34 | 0.34 | 0.0134 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.35 | 0.35 | 0.0138 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.36 | 0.36 | 0.0142 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.37 | 0.37 | 0.0146 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.38 | 0.38 | 0.0150 | 1.8 | 25 | 2.4 | 1 |
| A3143-0.39 | 0.39 | 0.0154 | 2.2 | 25 | 3 | 1 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

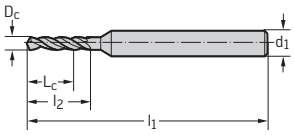



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A3143-0.4 | 0.4 | 0.0157 | 2.2 | 25 | 3 | 1 |
| A3143-0.41 | 0.41 | 0.0161 | 2.2 | 25 | 3 | 1 |
| A3143-0.42 | 0.42 | 0.0165 | 2.2 | 25 | 3 | 1 |
| A3143-0.43 | 0.43 | 0.0169 | 2.2 | 25 | 3 | 1 |
| A3143-0.44 | 0.44 | 0.0173 | 2.2 | 25 | 3 | 1 |
| A3143-0.45 | 0.45 | 0.0177 | 2.2 | 25 | 3 | 1 |
| A3143-0.46 | 0.46 | 0.0181 | 2.2 | 25 | 3 | 1 |
| A3143-0.47 | 0.47 | 0.0185 | 2.2 | 25 | 3 | 1 |
| A3143-0.48 | 0.48 | 0.0189 | 2.2 | 25 | 3 | 1 |
| A3143-0.49 | 0.49 | 0.0193 | 2.6 | 25 | 3.4 | 1 |
| A3143-0.5 | 0.5 | 0.0197 | 2.6 | 25 | 3.4 | 1 |
| A3143-0.51 | 0.51 | 0.0201 | 2.6 | 25 | 3.4 | 1 |
| A3143-0.52 | 0.52 | 0.0205 | 2.6 | 25 | 3.4 | 1 |
| A3143-0.53 | 0.53 | 0.0209 | 2.6 | 25 | 3.4 | 1 |
| A3143-0.54 | 0.54 | 0.0213 | 3 | 25 | 3.9 | 1 |
| A3143-0.55 | 0.55 | 0.0217 | 3 | 25 | 3.9 | 1 |
| A3143-0.56 | 0.56 | 0.0220 | 3 | 25 | 3.9 | 1 |
| A3143-0.57 | 0.57 | 0.0224 | 3 | 25 | 3.9 | 1 |
| A3143-0.58 | 0.58 | 0.0228 | 3 | 25 | 3.9 | 1 |
| A3143-0.59 | 0.59 | 0.0232 | 3 | 25 | 3.9 | 1 |
| A3143-0.6 | 0.6 | 0.0236 | 3 | 25 | 3.9 | 1 |
| A3143-0.61 | 0.61 | 0.0240 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.62 | 0.62 | 0.0244 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.63 | 0.63 | 0.0248 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.64 | 0.64 | 0.0252 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.65 | 0.65 | 0.0256 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.66 | 0.66 | 0.0260 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.67 | 0.67 | 0.0264 | 3.1 | 25 | 4.2 | 1 |
| A3143-0.68 | 0.68 | 0.0268 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.69 | 0.69 | 0.0272 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.7 | 0.7 | 0.0276 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.71 | 0.71 | 0.0280 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.72 | 0.72 | 0.0283 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.73 | 0.73 | 0.0287 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.74 | 0.74 | 0.0291 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.75 | 0.75 | 0.0295 | 3.6 | 25 | 4.8 | 1 |
| A3143-0.76 | 0.76 | 0.0299 | 4.1 | 25 | 5.3 | 1 |
| A3143-0.77 | 0.77 | 0.0303 | 4.1 | 25 | 5.3 | 1 |
| A3143-0.78 | 0.78 | 0.0307 | 4.1 | 25 | 5.3 | 1 |
| A3143-0.79 | 0.79 | 0.0311 | 4.1 | 25 | 5.3 | 1 |
| A3143-0.8 | 0.8 | 0.0315 | 4 | 25 | 5.3 | 1.5 |
| A3143-0.81 | 0.81 | 0.0319 | 4 | 25 | 5.3 | 1.5 |
| A3143-0.82 | 0.82 | 0.0323 | 4 | 25 | 5.3 | 1.5 |
| A3143-0.83 | 0.83 | 0.0327 | 4 | 25 | 5.3 | 1.5 |
| A3143-0.84 | 0.84 | 0.0331 | 4 | 25 | 5.3 | 1.5 |
| A3143-0.85 | 0.85 | 0.0335 | 4 | 25 | 5.3 | 1.5 |
| A3143-0.86 | 0.86 | 0.0339 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.87 | 0.87 | 0.0343 | 4.5 | 25 | 6 | 1.5 |

## Tool




Cylindrical shank

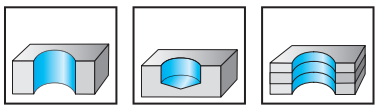
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A3143-0.88 | 0.88 | 0.0346 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.89 | 0.89 | 0.0350 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.9 | 0.9 | 0.0354 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.91 | 0.91 | 0.0358 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.92 | 0.92 | 0.0362 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.93 | 0.93 | 0.0366 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.94 | 0.94 | 0.0370 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.95 | 0.95 | 0.0374 | 4.5 | 25 | 6 | 1.5 |
| A3143-0.96 | 0.96 | 0.0378 | 5 | 25 | 6.8 | 1.5 |
| A3143-0.97 | 0.97 | 0.0382 | 5 | 25 | 6.8 | 1.5 |
| A3143-0.98 | 0.98 | 0.0386 | 5 | 25 | 6.8 | 1.5 |
| A3143-0.99 | 0.99 | 0.0390 | 5 | 25 | 6.8 | 1.5 |
| A3143-1 | 1 | 0.0394 | 5 | 25 | 6.8 | 1.5 |
| A3143-1.05 | 1.05 | 0.0413 | 5 | 25 | 6.8 | 1.5 |
| A3143-1.1 | 1.1 | 0.0433 | 5 | 25 | 7.6 | 1.5 |
| A3143-1.15 | 1.15 | 0.0453 | 5 | 25 | 7.6 | 1.5 |
| A3143-1.2 | 1.2 | 0.0472 | 6 | 25 | 8.5 | 1.5 |
| A3143-1.25 | 1.25 | 0.0492 | 6 | 25 | 8.5 | 1.5 |
| A3143-1.3 | 1.3 | 0.0512 | 6 | 25 | 8.5 | 1.5 |
| A3143-1.35 | 1.35 | 0.0531 | 7 | 25 | 9.5 | 1.5 |
| A3143-1.4 | 1.4 | 0.0551 | 7 | 25 | 9.5 | 1.5 |
| A3143-1.45 | 1.45 | 0.0571 | 7 | 25 | 9.5 | 1.5 |

# HSS-E micro drills

## A3153



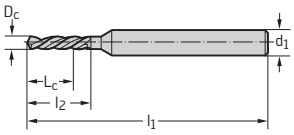
– Type ESU



~5×$D_c$ | DIN 1899 |  |  118° |  LH

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

## Tool




Cylindrical shank

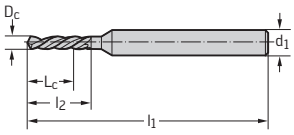
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A3153-0.15 | 0.15 | 0.0059 | 0.5 | 25 | 0.8 | 1 |
| A3153-0.17 | 0.17 | 0.0067 | 0.8 | 25 | 1.1 | 1 |
| A3153-0.18 | 0.18 | 0.0071 | 0.8 | 25 | 1.1 | 1 |
| A3153-0.19 | 0.19 | 0.0075 | 0.8 | 25 | 1.1 | 1 |
| A3153-0.2 | 0.2 | 0.0079 | 1.1 | 25 | 1.5 | 1 |
| A3153-0.21 | 0.21 | 0.0083 | 1.1 | 25 | 1.5 | 1 |
| A3153-0.23 | 0.23 | 0.0091 | 1.1 | 25 | 1.5 | 1 |
| A3153-0.24 | 0.24 | 0.0094 | 1.1 | 25 | 1.5 | 1 |
| A3153-0.25 | 0.25 | 0.0098 | 1.4 | 25 | 1.9 | 1 |
| A3153-0.26 | 0.26 | 0.0102 | 1.4 | 25 | 1.9 | 1 |
| A3153-0.27 | 0.27 | 0.0106 | 1.4 | 25 | 1.9 | 1 |
| A3153-0.28 | 0.28 | 0.0110 | 1.4 | 25 | 1.9 | 1 |
| A3153-0.3 | 0.3 | 0.0118 | 1.4 | 25 | 1.9 | 1 |
| A3153-0.31 | 0.31 | 0.0122 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.32 | 0.32 | 0.0126 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.33 | 0.33 | 0.0130 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.34 | 0.34 | 0.0134 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.35 | 0.35 | 0.0138 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.37 | 0.37 | 0.0146 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.38 | 0.38 | 0.0150 | 1.8 | 25 | 2.4 | 1 |
| A3153-0.4 | 0.4 | 0.0157 | 2.2 | 25 | 3 | 1 |
| A3153-0.41 | 0.41 | 0.0161 | 2.2 | 25 | 3 | 1 |
| A3153-0.43 | 0.43 | 0.0169 | 2.2 | 25 | 3 | 1 |
| A3153-0.45 | 0.45 | 0.0177 | 2.2 | 25 | 3 | 1 |
| A3153-0.47 | 0.47 | 0.0185 | 2.2 | 25 | 3 | 1 |
| A3153-0.48 | 0.48 | 0.0189 | 2.2 | 25 | 3 | 1 |
| A3153-0.49 | 0.49 | 0.0193 | 2.6 | 25 | 3.4 | 1 |
| A3153-0.5 | 0.5 | 0.0197 | 2.6 | 25 | 3.4 | 1 |
| A3153-0.52 | 0.52 | 0.0205 | 2.6 | 25 | 3.4 | 1 |
| A3153-0.53 | 0.53 | 0.0209 | 2.6 | 25 | 3.4 | 1 |
| A3153-0.54 | 0.54 | 0.0213 | 3 | 25 | 3.9 | 1 |
| A3153-0.55 | 0.55 | 0.0217 | 3 | 25 | 3.9 | 1 |
| A3153-0.56 | 0.56 | 0.0220 | 3 | 25 | 3.9 | 1 |
| A3153-0.57 | 0.57 | 0.0224 | 3 | 25 | 3.9 | 1 |
| A3153-0.58 | 0.58 | 0.0228 | 3 | 25 | 3.9 | 1 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool



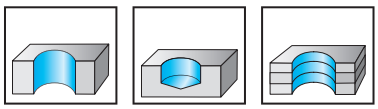

Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A3153-0.59 | 0.59 | 0.0232 | 3 | 25 | 3.9 | 1 |
| A3153-0.6 | 0.6 | 0.0236 | 3 | 25 | 3.9 | 1 |
| A3153-0.61 | 0.61 | 0.0240 | 3.1 | 25 | 4.2 | 1 |
| A3153-0.62 | 0.62 | 0.0244 | 3.1 | 25 | 4.2 | 1 |
| A3153-0.63 | 0.63 | 0.0248 | 3.1 | 25 | 4.2 | 1 |
| A3153-0.65 | 0.65 | 0.0256 | 3.1 | 25 | 4.2 | 1 |
| A3153-0.67 | 0.67 | 0.0264 | 3.1 | 25 | 4.2 | 1 |
| A3153-0.68 | 0.68 | 0.0268 | 3.6 | 25 | 4.8 | 1 |
| A3153-0.7 | 0.7 | 0.0276 | 3.6 | 25 | 4.8 | 1 |
| A3153-0.72 | 0.72 | 0.0283 | 3.6 | 25 | 4.8 | 1 |
| A3153-0.73 | 0.73 | 0.0287 | 3.6 | 25 | 4.8 | 1 |
| A3153-0.74 | 0.74 | 0.0291 | 3.6 | 25 | 4.8 | 1 |
| A3153-0.75 | 0.75 | 0.0295 | 3.6 | 25 | 4.8 | 1 |
| A3153-0.76 | 0.76 | 0.0299 | 4.1 | 25 | 5.3 | 1 |
| A3153-0.77 | 0.77 | 0.0303 | 4.1 | 25 | 5.3 | 1 |
| A3153-0.78 | 0.78 | 0.0307 | 4.1 | 25 | 5.3 | 1 |
| A3153-0.8 | 0.8 | 0.0315 | 4 | 25 | 5.3 | 1.5 |
| A3153-0.82 | 0.82 | 0.0323 | 4 | 25 | 5.3 | 1.5 |
| A3153-0.83 | 0.83 | 0.0327 | 4 | 25 | 5.3 | 1.5 |
| A3153-0.84 | 0.84 | 0.0331 | 4 | 25 | 5.3 | 1.5 |
| A3153-0.85 | 0.85 | 0.0335 | 4 | 25 | 5.3 | 1.5 |
| A3153-0.87 | 0.87 | 0.0343 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.89 | 0.89 | 0.035 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.9 | 0.9 | 0.0354 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.91 | 0.91 | 0.0358 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.92 | 0.92 | 0.0362 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.93 | 0.93 | 0.0366 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.94 | 0.94 | 0.0370 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.95 | 0.95 | 0.0374 | 4.5 | 25 | 6 | 1.5 |
| A3153-0.96 | 0.96 | 0.0378 | 5 | 25 | 6.8 | 1.5 |
| A3153-0.97 | 0.97 | 0.0382 | 5 | 25 | 6.8 | 1.5 |
| A3153-0.98 | 0.98 | 0.0386 | 5 | 25 | 6.8 | 1.5 |
| A3153-1 | 1 | 0.0394 | 5 | 25 | 6.8 | 1.5 |
| A3153-1.05 | 1.05 | 0.0413 | 5 | 25 | 6.8 | 1.5 |
| A3153-1.1 | 1.1 | 0.0433 | 5 | 25 | 7.6 | 1.5 |
| A3153-1.15 | 1.15 | 0.0453 | 5 | 25 | 7.6 | 1.5 |
| A3153-1.2 | 1.2 | 0.0472 | 6 | 25 | 8.5 | 1.5 |
| A3153-1.3 | 1.3 | 0.0512 | 6 | 25 | 8.5 | 1.5 |
| A3153-1.4 | 1.4 | 0.0551 | 7 | 25 | 9.5 | 1.5 |

# HSS-E deep-hole drills

## A1249XPL

## UFL®

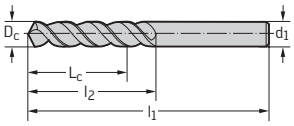


~8×$D_c$ | DIN 338 |  | 


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



### Tool




Cylindrical shank

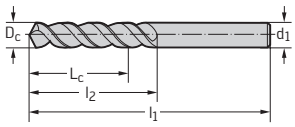
| Designation | $D_c$ mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1249XPL-1 | 1 | 0.0394 | | 10 | 34 | 12 | 1 |
| A1249XPL-NO60 | 1.016 | 0.0400 | No. 60 | 10 | 34 | 12 | 1.016 |
| A1249XPL-NO59 | 1.041 | 0.0410 | No. 59 | 10 | 34 | 12 | 1.041 |
| A1249XPL-NO58 | 1.067 | 0.0420 | No. 58 | 12 | 36 | 14 | 1.067 |
| A1249XPL-NO57 | 1.092 | 0.0430 | No. 57 | 12 | 36 | 14 | 1.092 |
| A1249XPL-1.1 | 1.1 | 0.0433 | | 12 | 36 | 14 | 1.1 |
| A1249XPL-NO56 | 1.181 | 0.0465 | No. 56 | 14 | 38 | 16 | 1.181 |
| A1249XPL-3/64IN | 1.191 | 0.0469 | 3/64" | 14 | 38 | 16 | 1.191 |
| A1249XPL-1.2 | 1.2 | 0.0472 | | 14 | 38 | 16 | 1.2 |
| A1249XPL-1.3 | 1.3 | 0.0512 | | 14 | 38 | 16 | 1.3 |
| A1249XPL-NO55 | 1.321 | 0.0520 | No. 55 | 15 | 40 | 18 | 1.321 |
| A1249XPL-NO54 | 1.397 | 0.0550 | No. 54 | 15 | 40 | 18 | 1.397 |
| A1249XPL-1.4 | 1.4 | 0.0551 | | 15 | 40 | 18 | 1.4 |
| A1249XPL-1.5 | 1.5 | 0.0591 | | 15 | 40 | 18 | 1.5 |
| A1249XPL-NO53 | 1.511 | 0.0595 | No. 53 | 17 | 43 | 20 | 1.511 |
| A1249XPL-1/16IN | 1.588 | 0.0625 | 1/16" | 17 | 43 | 20 | 1.588 |
| A1249XPL-1.6 | 1.6 | 0.0630 | | 17 | 43 | 20 | 1.6 |
| A1249XPL-NO52 | 1.613 | 0.0635 | No. 52 | 17 | 43 | 20 | 1.613 |
| A1249XPL-1.7 | 1.7 | 0.0669 | | 17 | 43 | 20 | 1.7 |
| A1249XPL-NO51 | 1.702 | 0.0670 | No. 51 | 19 | 46 | 22 | 1.702 |
| A1249XPL-NO50 | 1.778 | 0.0700 | No. 50 | 19 | 46 | 22 | 1.778 |
| A1249XPL-1.8 | 1.8 | 0.0709 | | 19 | 46 | 22 | 1.8 |
| A1249XPL-NO49 | 1.854 | 0.0730 | No. 49 | 19 | 46 | 22 | 1.854 |
| A1249XPL-1.9 | 1.9 | 0.0748 | | 19 | 46 | 22 | 1.9 |
| A1249XPL-NO48 | 1.93 | 0.0760 | No. 48 | 20 | 49 | 24 | 1.93 |
| A1249XPL-5/64IN | 1.984 | 0.0781 | 5/64" | 20 | 49 | 24 | 1.984 |
| A1249XPL-NO47 | 1.994 | 0.0785 | No. 47 | 20 | 49 | 24 | 1.994 |
| A1249XPL-2 | 2 | 0.0787 | | 20 | 49 | 24 | 2 |
| A1249XPL-NO46 | 2.057 | 0.0810 | No. 46 | 20 | 49 | 24 | 2.057 |
| A1249XPL-NO45 | 2.083 | 0.0820 | No. 45 | 20 | 49 | 24 | 2.083 |
| A1249XPL-2.1 | 2.1 | 0.0827 | | 20 | 49 | 24 | 2.1 |
| A1249XPL-NO44 | 2.184 | 0.0860 | No. 44 | 23 | 53 | 27 | 2.184 |
| A1249XPL-2.2 | 2.2 | 0.0866 | | 23 | 53 | 27 | 2.2 |
| A1249XPL-NO43 | 2.261 | 0.0890 | No. 43 | 23 | 53 | 27 | 2.261 |
| A1249XPL-2.3 | 2.3 | 0.0906 | | 23 | 53 | 27 | 2.3 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

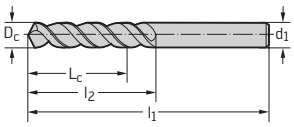
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1249XPL-NO42 | 2.375 | 0.0935 | No. 42 | 26 | 57 | 30 | 2.375 |
| A1249XPL-3/32IN | 2.381 | 0.0937 | 3/32" | 26 | 57 | 30 | 2.381 |
| A1249XPL-2.4 | 2.4 | 0.0945 | | 26 | 57 | 30 | 2.4 |
| A1249XPL-NO41 | 2.438 | 0.0960 | No. 41 | 26 | 57 | 30 | 2.438 |
| A1249XPL-NO40 | 2.489 | 0.0980 | No. 40 | 26 | 57 | 30 | 2.489 |
| A1249XPL-2.5 | 2.5 | 0.0984 | | 26 | 57 | 30 | 2.5 |
| A1249XPL-NO39 | 2.527 | 0.0995 | No. 39 | 26 | 57 | 30 | 2.527 |
| A1249XPL-NO38 | 2.578 | 0.1015 | No. 38 | 26 | 57 | 30 | 2.578 |
| A1249XPL-2.6 | 2.6 | 0.1024 | | 26 | 57 | 30 | 2.6 |
| A1249XPL-NO37 | 2.642 | 0.1040 | No. 37 | 26 | 57 | 30 | 2.642 |
| A1249XPL-2.7 | 2.7 | 0.1063 | | 28 | 61 | 33 | 2.7 |
| A1249XPL-NO36 | 2.705 | 0.1065 | No. 36 | 28 | 61 | 33 | 2.705 |
| A1249XPL-7/64IN | 2.778 | 0.1094 | 7/64" | 28 | 61 | 33 | 2.778 |
| A1249XPL-NO35 | 2.794 | 0.1100 | No. 35 | 28 | 61 | 33 | 2.794 |
| A1249XPL-2.8 | 2.8 | 0.1102 | | 28 | 61 | 33 | 2.8 |
| A1249XPL-NO34 | 2.819 | 0.1110 | No. 34 | 28 | 61 | 33 | 2.819 |
| A1249XPL-NO33 | 2.87 | 0.1130 | No. 33 | 28 | 61 | 33 | 2.87 |
| A1249XPL-2.9 | 2.9 | 0.1142 | | 28 | 61 | 33 | 2.9 |
| A1249XPL-NO32 | 2.946 | 0.1160 | No. 32 | 28 | 61 | 33 | 2.946 |
| A1249XPL-3 | 3 | 0.1181 | | 28 | 61 | 33 | 3 |
| A1249XPL-NO31 | 3.048 | 0.1200 | No. 31 | 30 | 65 | 36 | 3.048 |
| A1249XPL-3.1 | 3.1 | 0.1220 | | 30 | 65 | 36 | 3.1 |
| A1249XPL-1/8IN | 3.175 | 0.1250 | 1/8" | 30 | 65 | 36 | 3.175 |
| A1249XPL-3.2 | 3.2 | 0.1260 | | 30 | 65 | 36 | 3.2 |
| A1249XPL-NO30 | 3.264 | 0.1285 | No. 30 | 30 | 65 | 36 | 3.264 |
| A1249XPL-3.3 | 3.3 | 0.1299 | | 30 | 65 | 36 | 3.3 |
| A1249XPL-3.4 | 3.4 | 0.1339 | | 33 | 70 | 39 | 3.4 |
| A1249XPL-NO29 | 3.454 | 0.1360 | No. 29 | 33 | 70 | 39 | 3.454 |
| A1249XPL-3.5 | 3.5 | 0.1378 | | 33 | 70 | 39 | 3.5 |
| A1249XPL-NO28 | 3.569 | 0.1405 | No. 28 | 33 | 70 | 39 | 3.569 |
| A1249XPL-9/64IN | 3.572 | 0.1406 | 9/64" | 33 | 70 | 39 | 3.572 |
| A1249XPL-3.6 | 3.6 | 0.1417 | | 33 | 70 | 39 | 3.6 |
| A1249XPL-NO27 | 3.658 | 0.1440 | No. 27 | 33 | 70 | 39 | 3.658 |
| A1249XPL-3.7 | 3.7 | 0.1457 | | 33 | 70 | 39 | 3.7 |
| A1249XPL-NO26 | 3.734 | 0.1470 | No. 26 | 33 | 70 | 39 | 3.734 |
| A1249XPL-NO25 | 3.797 | 0.1495 | No. 25 | 36 | 75 | 43 | 3.797 |
| A1249XPL-3.8 | 3.8 | 0.1496 | | 36 | 75 | 43 | 3.8 |
| A1249XPL-NO24 | 3.861 | 0.1520 | No. 24 | 36 | 75 | 43 | 3.861 |
| A1249XPL-3.9 | 3.9 | 0.1535 | | 36 | 75 | 43 | 3.9 |
| A1249XPL-NO23 | 3.912 | 0.1540 | No. 23 | 36 | 75 | 43 | 3.912 |
| A1249XPL-5/32IN | 3.969 | 0.1563 | 5/32" | 36 | 75 | 43 | 3.969 |
| A1249XPL-NO22 | 3.988 | 0.1570 | No. 22 | 36 | 75 | 43 | 3.988 |
| A1249XPL-4 | 4 | 0.1575 | | 36 | 75 | 43 | 4 |
| A1249XPL-NO21 | 4.039 | 0.1590 | No. 21 | 36 | 75 | 43 | 4.039 |
| A1249XPL-NO20 | 4.089 | 0.1610 | No. 20 | 36 | 75 | 43 | 4.089 |
| A1249XPL-4.1 | 4.1 | 0.1614 | | 36 | 75 | 43 | 4.1 |
| A1249XPL-4.2 | 4.2 | 0.1654 | | 36 | 75 | 43 | 4.2 |
| A1249XPL-NO19 | 4.216 | 0.1660 | No. 19 | 36 | 75 | 43 | 4.216 |

## Tool

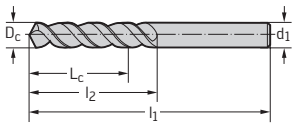



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1249XPL-4.3 | 4.3 | 0.1693 | | 39 | 80 | 47 | 4.3 |
| A1249XPL-NO18 | 4.305 | 0.1695 | No. 18 | 39 | 80 | 47 | 4.305 |
| A1249XPL-11/64IN | 4.366 | 0.1719 | 11/64" | 39 | 80 | 47 | 4.366 |
| A1249XPL-NO17 | 4.394 | 0.1730 | No. 17 | 39 | 80 | 47 | 4.394 |
| A1249XPL-4.4 | 4.4 | 0.1732 | | 39 | 80 | 47 | 4.4 |
| A1249XPL-NO16 | 4.496 | 0.1770 | No. 16 | 39 | 80 | 47 | 4.496 |
| A1249XPL-4.5 | 4.5 | 0.1772 | | 39 | 80 | 47 | 4.5 |
| A1249XPL-NO15 | 4.572 | 0.1800 | No. 15 | 39 | 80 | 47 | 4.572 |
| A1249XPL-4.6 | 4.6 | 0.1811 | | 39 | 80 | 47 | 4.6 |
| A1249XPL-NO14 | 4.623 | 0.1820 | No. 14 | 39 | 80 | 47 | 4.623 |
| A1249XPL-4.65 | 4.65 | 0.1831 | | 39 | 80 | 47 | 4.65 |
| A1249XPL-NO13 | 4.699 | 0.1850 | No. 13 | 39 | 80 | 47 | 4.699 |
| A1249XPL-4.7 | 4.7 | 0.1850 | | 39 | 80 | 47 | 4.7 |
| A1249XPL-3/16IN | 4.763 | 0.1875 | 3/16" | 44 | 86 | 52 | 4.763 |
| A1249XPL-4.8 | 4.8 | 0.1890 | | 44 | 86 | 52 | 4.8 |
| A1249XPL-NO12 | 4.801 | 0.1890 | No. 12 | 44 | 86 | 52 | 4.801 |
| A1249XPL-NO11 | 4.851 | 0.1910 | No. 11 | 44 | 86 | 52 | 4.851 |
| A1249XPL-4.9 | 4.9 | 0.1929 | | 44 | 86 | 52 | 4.9 |
| A1249XPL-NO10 | 4.915 | 0.1935 | No. 10 | 44 | 86 | 52 | 4.915 |
| A1249XPL-NO9 | 4.978 | 0.1960 | No. 09 | 44 | 86 | 52 | 4.978 |
| A1249XPL-5 | 5 | 0.1969 | | 44 | 86 | 52 | 5 |
| A1249XPL-NO8 | 5.055 | 0.1990 | No. 08 | 44 | 86 | 52 | 5.055 |
| A1249XPL-5.1 | 5.1 | 0.2008 | | 44 | 86 | 52 | 5.1 |
| A1249XPL-NO7 | 5.105 | 0.2010 | No. 07 | 44 | 86 | 52 | 5.105 |
| A1249XPL-13/64IN | 5.159 | 0.2031 | 13/64" | 44 | 86 | 52 | 5.159 |
| A1249XPL-NO6 | 5.182 | 0.2040 | No. 06 | 44 | 86 | 52 | 5.182 |
| A1249XPL-5.2 | 5.2 | 0.2047 | | 44 | 86 | 52 | 5.2 |
| A1249XPL-NO5 | 5.22 | 0.2055 | No. 05 | 44 | 86 | 52 | 5.22 |
| A1249XPL-5.3 | 5.3 | 0.2087 | | 44 | 86 | 52 | 5.3 |
| A1249XPL-NO4 | 5.309 | 0.2090 | No. 04 | 48 | 93 | 57 | 5.309 |
| A1249XPL-5.4 | 5.4 | 0.2126 | | 48 | 93 | 57 | 5.4 |
| A1249XPL-NO3 | 5.41 | 0.2130 | No. 03 | 48 | 93 | 57 | 5.41 |
| A1249XPL-5.5 | 5.5 | 0.2165 | | 48 | 93 | 57 | 5.5 |
| A1249XPL-5.55 | 5.55 | 0.2185 | | 48 | 93 | 57 | 5.55 |
| A1249XPL-7/32IN | 5.556 | 0.2187 | 7/32" | 48 | 93 | 57 | 5.556 |
| A1249XPL-5.6 | 5.6 | 0.2205 | | 48 | 93 | 57 | 5.6 |
| A1249XPL-NO2 | 5.613 | 0.2210 | No. 02 | 48 | 93 | 57 | 5.613 |
| A1249XPL-5.7 | 5.7 | 0.2244 | | 48 | 93 | 57 | 5.7 |
| A1249XPL-NO1 | 5.791 | 0.2280 | No. 01 | 48 | 93 | 57 | 5.791 |
| A1249XPL-5.8 | 5.8 | 0.2283 | | 48 | 93 | 57 | 5.8 |
| A1249XPL-5.9 | 5.9 | 0.2323 | | 48 | 93 | 57 | 5.9 |
| A1249XPL-15/64IN | 5.953 | 0.2344 | 15/64" | 48 | 93 | 57 | 5.953 |
| A1249XPL-6 | 6 | 0.2362 | | 48 | 93 | 57 | 6 |
| A1249XPL-6.1 | 6.1 | 0.2402 | | 52 | 101 | 63 | 6.1 |
| A1249XPL-6.2 | 6.2 | 0.2441 | | 52 | 101 | 63 | 6.2 |
| A1249XPL-6.3 | 6.3 | 0.2480 | | 52 | 101 | 63 | 6.3 |
| A1249XPL-1/4IN | 6.35 | 0.2500 | 1/4" | 52 | 101 | 63 | 6.35 |
| A1249XPL-6.4 | 6.4 | 0.2520 | | 52 | 101 | 63 | 6.4 |

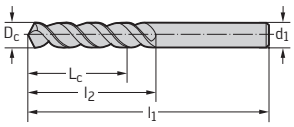
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1249XPL-6.5 | 6.5 | 0.2559 | | 52 | 101 | 63 | 6.5 |
| A1249XPL-6.6 | 6.6 | 0.2598 | | 52 | 101 | 63 | 6.6 |
| A1249XPL-6.7 | 6.7 | 0.2638 | | 52 | 101 | 63 | 6.7 |
| A1249XPL-17/64IN | 6.747 | 0.2656 | 17/64" | 57 | 109 | 69 | 6.747 |
| A1249XPL-6.8 | 6.8 | 0.2677 | | 57 | 109 | 69 | 6.8 |
| A1249XPL-6.9 | 6.9 | 0.2717 | | 57 | 109 | 69 | 6.9 |
| A1249XPL-7 | 7 | 0.2756 | | 57 | 109 | 69 | 7 |
| A1249XPL-7.1 | 7.1 | 0.2795 | | 57 | 109 | 69 | 7.1 |
| A1249XPL-9/32IN | 7.144 | 0.2813 | 9/32" | 57 | 109 | 69 | 7.144 |
| A1249XPL-7.2 | 7.2 | 0.2835 | | 57 | 109 | 69 | 7.2 |
| A1249XPL-7.3 | 7.3 | 0.2874 | | 57 | 109 | 69 | 7.3 |
| A1249XPL-7.4 | 7.4 | 0.2913 | | 57 | 109 | 69 | 7.4 |
| A1249XPL-7.5 | 7.5 | 0.2953 | | 57 | 109 | 69 | 7.5 |
| A1249XPL-19/64IN | 7.541 | 0.2969 | 19/64" | 62 | 117 | 75 | 7.541 |
| A1249XPL-7.6 | 7.6 | 0.2992 | | 62 | 117 | 75 | 7.6 |
| A1249XPL-7.7 | 7.7 | 0.3031 | | 62 | 117 | 75 | 7.7 |
| A1249XPL-7.8 | 7.8 | 0.3071 | | 62 | 117 | 75 | 7.8 |
| A1249XPL-7.9 | 7.9 | 0.3110 | | 62 | 117 | 75 | 7.9 |
| A1249XPL-5/16IN | 7.938 | 0.3125 | 5/16" | 62 | 117 | 75 | 7.938 |
| A1249XPL-8 | 8 | 0.3150 | | 62 | 117 | 75 | 8 |
| A1249XPL-8.1 | 8.1 | 0.3189 | | 62 | 117 | 75 | 8.1 |
| A1249XPL-8.2 | 8.2 | 0.3228 | | 62 | 117 | 75 | 8.2 |
| A1249XPL-8.3 | 8.3 | 0.3268 | | 62 | 117 | 75 | 8.3 |
| A1249XPL-21/64IN | 8.334 | 0.3281 | 21/64" | 62 | 117 | 75 | 8.334 |
| A1249XPL-8.4 | 8.4 | 0.3307 | | 62 | 117 | 75 | 8.4 |
| A1249XPL-8.5 | 8.5 | 0.3346 | | 62 | 117 | 75 | 8.5 |
| A1249XPL-8.6 | 8.6 | 0.3386 | | 66 | 125 | 81 | 8.6 |
| A1249XPL-8.7 | 8.7 | 0.3425 | | 66 | 125 | 81 | 8.7 |
| A1249XPL-11/32IN | 8.731 | 0.3437 | 11/32" | 66 | 125 | 81 | 8.731 |
| A1249XPL-8.8 | 8.8 | 0.3465 | | 66 | 125 | 81 | 8.8 |
| A1249XPL-8.9 | 8.9 | 0.3504 | | 66 | 125 | 81 | 8.9 |
| A1249XPL-9 | 9 | 0.3543 | | 66 | 125 | 81 | 9 |
| A1249XPL-9.1 | 9.1 | 0.3583 | | 66 | 125 | 81 | 9.1 |
| A1249XPL-23/64IN | 9.128 | 0.3594 | 23/64" | 66 | 125 | 81 | 9.128 |
| A1249XPL-9.2 | 9.2 | 0.3622 | | 66 | 125 | 81 | 9.2 |
| A1249XPL-9.3 | 9.3 | 0.3661 | | 66 | 125 | 81 | 9.3 |
| A1249XPL-9.4 | 9.4 | 0.3701 | | 66 | 125 | 81 | 9.4 |
| A1249XPL-9.5 | 9.5 | 0.3740 | | 66 | 125 | 81 | 9.5 |
| A1249XPL-3/8IN | 9.525 | 0.3750 | 3/8" | 71 | 133 | 87 | 9.525 |
| A1249XPL-9.6 | 9.6 | 0.3780 | | 71 | 133 | 87 | 9.6 |
| A1249XPL-9.7 | 9.7 | 0.3819 | | 71 | 133 | 87 | 9.7 |
| A1249XPL-9.8 | 9.8 | 0.3858 | | 71 | 133 | 87 | 9.8 |
| A1249XPL-9.9 | 9.9 | 0.3898 | | 71 | 133 | 87 | 9.9 |
| A1249XPL-25/64IN | 9.922 | 0.3906 | 25/64" | 71 | 133 | 87 | 9.922 |
| A1249XPL-10 | 10 | 0.3937 | | 71 | 133 | 87 | 10 |
| A1249XPL-10.2 | 10.2 | 0.4016 | | 71 | 133 | 87 | 10.2 |
| A1249XPL-13/32IN | 10.319 | 0.4063 | 13/32" | 71 | 133 | 87 | 10.319 |
| A1249XPL-10.5 | 10.5 | 0.4134 | | 71 | 133 | 87 | 10.5 |

## Tool




Cylindrical shank

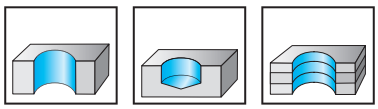
B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1249XPL-27/64IN | 10.716 | 0.4219 | 27/64" | 76 | 142 | 94 | 10.716 |
| A1249XPL-11 | 11 | 0.4331 | | 76 | 142 | 94 | 11 |
| A1249XPL-7/16IN | 11.113 | 0.4375 | 7/16" | 76 | 142 | 94 | 11.113 |
| A1249XPL-11.2 | 11.2 | 0.4409 | | 76 | 142 | 94 | 11.2 |
| A1249XPL-11.3 | 11.3 | 0.4449 | | 76 | 142 | 94 | 11.3 |
| A1249XPL-11.5 | 11.5 | 0.4528 | | 76 | 142 | 94 | 11.5 |
| A1249XPL-29/64IN | 11.509 | 0.4531 | 29/64" | 76 | 142 | 94 | 11.509 |
| A1249XPL-15/32IN | 11.906 | 0.4687 | 15/32" | 87 | 151 | 101 | 11.906 |
| A1249XPL-12 | 12 | 0.4724 | | 87 | 151 | 101 | 12 |
| A1249XPL-31/64IN | 12.303 | 0.4844 | 31/64" | 87 | 151 | 101 | 12.303 |
| A1249XPL-12.5 | 12.5 | 0.4921 | | 87 | 151 | 101 | 12.5 |
| A1249XPL-1/2IN | 12.7 | 0.5000 | 1/2" | 87 | 151 | 101 | 12.7 |
| A1249XPL-13 | 13 | 0.5118 | | 87 | 151 | 101 | 13 |
| A1249XPL-13.1 | 13.1 | 0.5157 | | 87 | 151 | 101 | 13.1 |
| A1249XPL-13.3 | 13.3 | 0.5236 | | 94 | 160 | 108 | 13.3 |
| A1249XPL-13.5 | 13.5 | 0.5315 | | 94 | 160 | 108 | 13.5 |
| A1249XPL-14 | 14 | 0.5512 | | 94 | 160 | 108 | 14 |
| A1249XPL-14.5 | 14.5 | 0.5709 | | 99 | 169 | 114 | 14.5 |
| A1249XPL-15 | 15 | 0.5906 | | 99 | 169 | 114 | 15 |
| A1249XPL-15.1 | 15.1 | 0.5945 | | 104 | 178 | 120 | 15.1 |
| A1249XPL-15.3 | 15.3 | 0.6024 | | 104 | 178 | 120 | 15.3 |
| A1249XPL-15.5 | 15.5 | 0.6102 | | 104 | 178 | 120 | 15.5 |
| A1249XPL-16 | 16 | 0.6299 | | 104 | 178 | 120 | 16 |
| A1249XPL-16.5 | 16.5 | 0.6496 | | 108 | 184 | 125 | 16.5 |
| A1249XPL-17 | 17 | 0.6693 | | 108 | 184 | 125 | 17 |
| A1249XPL-17.5 | 17.5 | 0.689 | | 112 | 191 | 130 | 17.5 |
| A1249XPL-18 | 18 | 0.7087 | | 112 | 191 | 130 | 18 |
| A1249XPL-18.5 | 18.5 | 0.7283 | | 116 | 198 | 135 | 18.5 |
| A1249XPL-19 | 19 | 0.748 | | 116 | 198 | 135 | 19 |
| A1249XPL-19.5 | 19.5 | 0.7677 | | 120 | 205 | 140 | 19.5 |
| A1249XPL-20 | 20 | 0.7874 | | 120 | 205 | 140 | 20 |

# HSS-E deep-hole drills

## A1254TFT

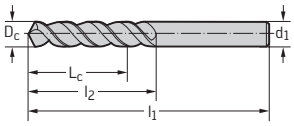
## VA Inox




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

B1

### Tool




Cylindrical shank

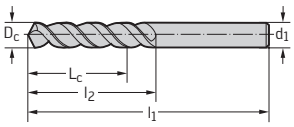
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1254TFT-3 | 3 | 0.1181 | 28 | 61 | 33 | 3 |
| A1254TFT-3.2 | 3.2 | 0.1260 | 30 | 65 | 36 | 3.2 |
| A1254TFT-3.3 | 3.3 | 0.1299 | 30 | 65 | 36 | 3.3 |
| A1254TFT-3.4 | 3.4 | 0.1339 | 33 | 70 | 39 | 3.4 |
| A1254TFT-3.5 | 3.5 | 0.1378 | 33 | 70 | 39 | 3.5 |
| A1254TFT-3.7 | 3.7 | 0.1457 | 33 | 70 | 39 | 3.7 |
| A1254TFT-3.8 | 3.8 | 0.1496 | 36 | 75 | 43 | 3.8 |
| A1254TFT-4 | 4 | 0.1575 | 36 | 75 | 43 | 4 |
| A1254TFT-4.2 | 4.2 | 0.1654 | 36 | 75 | 43 | 4.2 |
| A1254TFT-4.3 | 4.3 | 0.1693 | 39 | 80 | 47 | 4.3 |
| A1254TFT-4.5 | 4.5 | 0.1772 | 39 | 80 | 47 | 4.5 |
| A1254TFT-4.65 | 4.65 | 0.1831 | 39 | 80 | 47 | 4.65 |
| A1254TFT-4.7 | 4.7 | 0.1850 | 39 | 80 | 47 | 4.7 |
| A1254TFT-4.8 | 4.8 | 0.1890 | 44 | 86 | 52 | 4.8 |
| A1254TFT-5 | 5 | 0.1969 | 44 | 86 | 52 | 5 |
| A1254TFT-5.1 | 5.1 | 0.2008 | 44 | 86 | 52 | 5.1 |
| A1254TFT-5.3 | 5.3 | 0.2087 | 44 | 86 | 52 | 5.3 |
| A1254TFT-5.5 | 5.5 | 0.2165 | 48 | 93 | 57 | 5.5 |
| A1254TFT-5.55 | 5.55 | 0.2185 | 48 | 93 | 57 | 5.55 |
| A1254TFT-5.6 | 5.6 | 0.2205 | 48 | 93 | 57 | 5.6 |
| A1254TFT-5.8 | 5.8 | 0.2283 | 48 | 93 | 57 | 5.8 |
| A1254TFT-6 | 6 | 0.2362 | 48 | 93 | 57 | 6 |
| A1254TFT-6.5 | 6.5 | 0.2559 | 52 | 101 | 63 | 6.5 |
| A1254TFT-6.6 | 6.6 | 0.2598 | 52 | 101 | 63 | 6.6 |
| A1254TFT-6.8 | 6.8 | 0.2677 | 57 | 109 | 69 | 6.8 |
| A1254TFT-6.9 | 6.9 | 0.2717 | 57 | 109 | 69 | 6.9 |
| A1254TFT-7 | 7 | 0.2756 | 57 | 109 | 69 | 7 |
| A1254TFT-7.4 | 7.4 | 0.2913 | 57 | 109 | 69 | 7.4 |
| A1254TFT-7.5 | 7.5 | 0.2953 | 57 | 109 | 69 | 7.5 |
| A1254TFT-7.8 | 7.8 | 0.3071 | 62 | 117 | 75 | 7.8 |
| A1254TFT-8 | 8 | 0.3150 | 62 | 117 | 75 | 8 |
| A1254TFT-8.5 | 8.5 | 0.3346 | 62 | 117 | 75 | 8.5 |
| A1254TFT-8.6 | 8.6 | 0.3386 | 66 | 125 | 81 | 8.6 |
| A1254TFT-8.8 | 8.8 | 0.3465 | 66 | 125 | 81 | 8.8 |
| A1254TFT-9 | 9 | 0.3543 | 66 | 125 | 81 | 9 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




Cylindrical shank

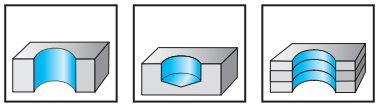
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1254TFT-9.3 | 9.3 | 0.3661 | 66 | 125 | 81 | 9.3 |
| A1254TFT-9.4 | 9.4 | 0.3701 | 66 | 125 | 81 | 9.4 |
| A1254TFT-9.5 | 9.5 | 0.3740 | 66 | 125 | 81 | 9.5 |
| A1254TFT-9.8 | 9.8 | 0.3858 | 71 | 133 | 87 | 9.8 |
| A1254TFT-10 | 10 | 0.3937 | 71 | 133 | 87 | 10 |
| A1254TFT-10.2 | 10.2 | 0.4016 | 71 | 133 | 87 | 10.2 |
| A1254TFT-10.3 | 10.3 | 0.4055 | 71 | 133 | 87 | 10.3 |
| A1254TFT-10.5 | 10.5 | 0.4134 | 71 | 133 | 87 | 10.5 |
| A1254TFT-11 | 11 | 0.4331 | 76 | 142 | 94 | 11 |
| A1254TFT-11.2 | 11.2 | 0.4409 | 76 | 142 | 94 | 11.2 |
| A1254TFT-11.3 | 11.3 | 0.4449 | 76 | 142 | 94 | 11.3 |
| A1254TFT-11.5 | 11.5 | 0.4528 | 76 | 142 | 94 | 11.5 |
| A1254TFT-11.8 | 11.8 | 0.4646 | 76 | 142 | 94 | 11.8 |
| A1254TFT-12 | 12 | 0.4724 | 87 | 151 | 101 | 12 |
| A1254TFT-12.1 | 12.1 | 0.4764 | 87 | 151 | 101 | 12.1 |
| A1254TFT-12.5 | 12.5 | 0.4921 | 87 | 151 | 101 | 12.5 |
| A1254TFT-13 | 13 | 0.5118 | 87 | 151 | 101 | 13 |
| A1254TFT-13.2 | 13.2 | 0.5197 | 87 | 151 | 101 | 13.2 |
| A1254TFT-13.5 | 13.5 | 0.5315 | 94 | 160 | 108 | 13.5 |
| A1254TFT-14 | 14 | 0.5512 | 94 | 160 | 108 | 14 |
| A1254TFT-14.1 | 14.1 | 0.5551 | 99 | 169 | 114 | 14.1 |
| A1254TFT-14.2 | 14.2 | 0.5591 | 99 | 169 | 114 | 14.2 |
| A1254TFT-14.5 | 14.5 | 0.5709 | 99 | 169 | 114 | 14.5 |
| A1254TFT-15 | 15 | 0.5906 | 99 | 169 | 114 | 15 |
| A1254TFT-15.1 | 15.1 | 0.5945 | 104 | 178 | 120 | 15.1 |
| A1254TFT-15.2 | 15.2 | 0.5984 | 104 | 178 | 120 | 15.2 |
| A1254TFT-15.5 | 15.5 | 0.6102 | 104 | 178 | 120 | 15.5 |
| A1254TFT-16 | 16 | 0.6299 | 104 | 178 | 120 | 16 |

# HSS-E twist drills

## A1247

## Alpha® XE

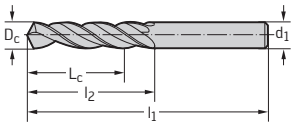
– Uncoated up to 1.9 mm




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

B1

## Tool




Cylindrical shank

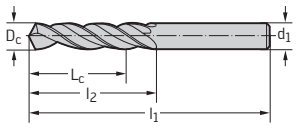
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1247-1 | 1 | 0.0394 | | 10 | 34 | 12 | 1 |
| A1247-NO60 | 1.016 | 0.0400 | No. 60 | 10 | 34 | 12 | 1.016 |
| A1247-NO59 | 1.041 | 0.0410 | No. 59 | 10 | 34 | 12 | 1.041 |
| A1247-NO58 | 1.067 | 0.0420 | No. 58 | 12 | 36 | 14 | 1.067 |
| A1247-NO57 | 1.092 | 0.0430 | No. 57 | 12 | 36 | 14 | 1.092 |
| A1247-1.1 | 1.1 | 0.0433 | | 12 | 36 | 14 | 1.1 |
| A1247-NO56 | 1.181 | 0.0465 | No. 56 | 14 | 38 | 16 | 1.181 |
| A1247-3/64IN | 1.191 | 0.0469 | 3/64" | 14 | 38 | 16 | 1.191 |
| A1247-1.2 | 1.2 | 0.0472 | | 14 | 38 | 16 | 1.2 |
| A1247-1.25 | 1.25 | 0.0492 | | 14 | 38 | 16 | 1.25 |
| A1247-1.3 | 1.3 | 0.0512 | | 14 | 38 | 16 | 1.3 |
| A1247-NO55 | 1.321 | 0.0520 | No. 55 | 15 | 40 | 18 | 1.321 |
| A1247-NO54 | 1.397 | 0.0550 | No. 54 | 15 | 40 | 18 | 1.397 |
| A1247-1.4 | 1.4 | 0.0551 | | 15 | 40 | 18 | 1.4 |
| A1247-1.5 | 1.5 | 0.0591 | | 15 | 40 | 18 | 1.5 |
| A1247-NO53 | 1.511 | 0.0595 | No. 53 | 17 | 43 | 20 | 1.511 |
| A1247-1/16IN | 1.588 | 0.0625 | 1/16" | 17 | 43 | 20 | 1.588 |
| A1247-1.6 | 1.6 | 0.0630 | | 17 | 43 | 20 | 1.6 |
| A1247-NO52 | 1.613 | 0.0635 | No. 52 | 17 | 43 | 20 | 1.613 |
| A1247-1.7 | 1.7 | 0.0669 | | 17 | 43 | 20 | 1.7 |
| A1247-NO51 | 1.702 | 0.0670 | No. 51 | 19 | 46 | 22 | 1.702 |
| A1247-NO50 | 1.778 | 0.0700 | No. 50 | 19 | 46 | 22 | 1.778 |
| A1247-1.8 | 1.8 | 0.0709 | | 19 | 46 | 22 | 1.8 |
| A1247-NO49 | 1.854 | 0.0730 | No. 49 | 19 | 46 | 22 | 1.854 |
| A1247-1.9 | 1.9 | 0.0748 | | 19 | 46 | 22 | 1.9 |
| A1247-NO48 | 1.93 | 0.0760 | No. 48 | 20 | 49 | 24 | 1.93 |
| A1247-5/64IN | 1.984 | 0.0781 | 5/64" | 20 | 49 | 24 | 1.984 |
| A1247-NO47 | 1.994 | 0.0785 | No. 47 | 20 | 49 | 24 | 1.994 |
| A1247-2 | 2 | 0.0787 | | 20 | 49 | 24 | 2 |
| A1247-NO46 | 2.057 | 0.0810 | No. 46 | 20 | 49 | 24 | 2.057 |
| A1247-NO45 | 2.083 | 0.0820 | No. 45 | 20 | 49 | 24 | 2.083 |
| A1247-2.1 | 2.1 | 0.0827 | | 20 | 49 | 24 | 2.1 |
| A1247-NO44 | 2.184 | 0.0860 | No. 44 | 23 | 53 | 27 | 2.184 |
| A1247-2.2 | 2.2 | 0.0866 | | 23 | 53 | 27 | 2.2 |
| A1247-NO43 | 2.261 | 0.0890 | No. 43 | 23 | 53 | 27 | 2.261 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

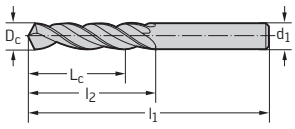



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1247-2.3 | 2.3 | 0.0906 | | 23 | 53 | 27 | 2.3 |
| A1247-NO42 | 2.375 | 0.0935 | No. 42 | 26 | 57 | 30 | 2.375 |
| A1247-3/32IN | 2.381 | 0.0937 | 3/32" | 26 | 57 | 30 | 2.381 |
| A1247-2.4 | 2.4 | 0.0945 | | 26 | 57 | 30 | 2.4 |
| A1247-NO41 | 2.438 | 0.0960 | No. 41 | 26 | 57 | 30 | 2.438 |
| A1247-NO40 | 2.489 | 0.0980 | No. 40 | 26 | 57 | 30 | 2.489 |
| A1247-2.5 | 2.5 | 0.0984 | | 26 | 57 | 30 | 2.5 |
| A1247-NO39 | 2.527 | 0.0995 | No. 39 | 26 | 57 | 30 | 2.527 |
| A1247-NO38 | 2.578 | 0.1015 | No. 38 | 26 | 57 | 30 | 2.578 |
| A1247-2.6 | 2.6 | 0.1024 | | 26 | 57 | 30 | 2.6 |
| A1247-NO37 | 2.642 | 0.1040 | No. 37 | 26 | 57 | 30 | 2.642 |
| A1247-2.7 | 2.7 | 0.1063 | | 28 | 61 | 33 | 2.7 |
| A1247-NO36 | 2.705 | 0.1065 | No. 36 | 28 | 61 | 33 | 2.705 |
| A1247-7/64IN | 2.778 | 0.1094 | 7/64" | 28 | 61 | 33 | 2.778 |
| A1247-NO35 | 2.794 | 0.1100 | No. 35 | 28 | 61 | 33 | 2.794 |
| A1247-2.8 | 2.8 | 0.1102 | | 28 | 61 | 33 | 2.8 |
| A1247-NO34 | 2.819 | 0.1110 | No. 34 | 28 | 61 | 33 | 2.819 |
| A1247-NO33 | 2.87 | 0.1130 | No. 33 | 28 | 61 | 33 | 2.87 |
| A1247-2.9 | 2.9 | 0.1142 | | 28 | 61 | 33 | 2.9 |
| A1247-NO32 | 2.946 | 0.1160 | No. 32 | 28 | 61 | 33 | 2.946 |
| A1247-3 | 3 | 0.1181 | | 28 | 61 | 33 | 3 |
| A1247-NO31 | 3.048 | 0.1200 | No. 31 | 30 | 65 | 36 | 3.048 |
| A1247-3.1 | 3.1 | 0.1220 | | 30 | 65 | 36 | 3.1 |
| A1247-1/8IN | 3.175 | 0.1250 | 1/8" | 30 | 65 | 36 | 3.175 |
| A1247-3.2 | 3.2 | 0.1260 | | 30 | 65 | 36 | 3.2 |
| A1247-NO30 | 3.264 | 0.1285 | No. 30 | 30 | 65 | 36 | 3.264 |
| A1247-3.3 | 3.3 | 0.1299 | | 30 | 65 | 36 | 3.3 |
| A1247-3.4 | 3.4 | 0.1339 | | 33 | 70 | 39 | 3.4 |
| A1247-NO29 | 3.454 | 0.1360 | No. 29 | 33 | 70 | 39 | 3.454 |
| A1247-3.5 | 3.5 | 0.1378 | | 33 | 70 | 39 | 3.5 |
| A1247-NO28 | 3.569 | 0.1405 | No. 28 | 33 | 70 | 39 | 3.569 |
| A1247-9/64IN | 3.572 | 0.1406 | 9/64" | 33 | 70 | 39 | 3.572 |
| A1247-3.6 | 3.6 | 0.1417 | | 33 | 70 | 39 | 3.6 |
| A1247-NO27 | 3.658 | 0.1440 | No. 27 | 33 | 70 | 39 | 3.658 |
| A1247-3.7 | 3.7 | 0.1457 | | 33 | 70 | 39 | 3.7 |
| A1247-NO26 | 3.734 | 0.1470 | No. 26 | 33 | 70 | 39 | 3.734 |
| A1247-NO25 | 3.797 | 0.1495 | No. 25 | 36 | 75 | 43 | 3.797 |
| A1247-3.8 | 3.8 | 0.1496 | | 36 | 75 | 43 | 3.8 |
| A1247-NO24 | 3.861 | 0.1520 | No. 24 | 36 | 75 | 43 | 3.861 |
| A1247-3.9 | 3.9 | 0.1535 | | 36 | 75 | 43 | 3.9 |
| A1247-NO23 | 3.912 | 0.1540 | No. 23 | 36 | 75 | 43 | 3.912 |
| A1247-5/32IN | 3.969 | 0.1563 | 5/32" | 36 | 75 | 43 | 3.969 |
| A1247-NO22 | 3.988 | 0.1570 | No. 22 | 36 | 75 | 43 | 3.988 |
| A1247-4 | 4 | 0.1575 | | 36 | 75 | 43 | 4 |
| A1247-NO21 | 4.039 | 0.1590 | No. 21 | 36 | 75 | 43 | 4.039 |
| A1247-NO20 | 4.089 | 0.1610 | No. 20 | 36 | 75 | 43 | 4.089 |
| A1247-4.1 | 4.1 | 0.1614 | | 36 | 75 | 43 | 4.1 |
| A1247-4.2 | 4.2 | 0.1654 | | 36 | 75 | 43 | 4.2 |

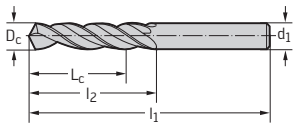
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1247-NO19 | 4.216 | 0.1660 | No. 19 | 36 | 75 | 43 | 4.216 |
| A1247-4.3 | 4.3 | 0.1693 | | 39 | 80 | 47 | 4.3 |
| A1247-NO18 | 4.305 | 0.1695 | No. 18 | 39 | 80 | 47 | 4.305 |
| A1247-11/64IN | 4.366 | 0.1719 | 11/64" | 39 | 80 | 47 | 4.366 |
| A1247-NO17 | 4.394 | 0.1730 | No. 17 | 39 | 80 | 47 | 4.394 |
| A1247-4.4 | 4.4 | 0.1732 | | 39 | 80 | 47 | 4.4 |
| A1247-NO16 | 4.496 | 0.1770 | No. 16 | 39 | 80 | 47 | 4.496 |
| A1247-4.5 | 4.5 | 0.1772 | | 39 | 80 | 47 | 4.5 |
| A1247-NO15 | 4.572 | 0.1800 | No. 15 | 39 | 80 | 47 | 4.572 |
| A1247-4.6 | 4.6 | 0.1811 | | 39 | 80 | 47 | 4.6 |
| A1247-NO14 | 4.623 | 0.1820 | No. 14 | 39 | 80 | 47 | 4.623 |
| A1247-NO13 | 4.699 | 0.1850 | No. 13 | 39 | 80 | 47 | 4.699 |
| A1247-4.7 | 4.7 | 0.1850 | | 39 | 80 | 47 | 4.7 |
| A1247-3/16IN | 4.763 | 0.1875 | 3/16" | 44 | 86 | 52 | 4.763 |
| A1247-4.8 | 4.8 | 0.1890 | | 44 | 86 | 52 | 4.8 |
| A1247-NO12 | 4.801 | 0.1890 | No. 12 | 44 | 86 | 52 | 4.801 |
| A1247-NO11 | 4.851 | 0.1910 | No. 11 | 44 | 86 | 52 | 4.851 |
| A1247-4.9 | 4.9 | 0.1929 | | 44 | 86 | 52 | 4.9 |
| A1247-NO10 | 4.915 | 0.1935 | No. 10 | 44 | 86 | 52 | 4.915 |
| A1247-NO9 | 4.978 | 0.1960 | No. 09 | 44 | 86 | 52 | 4.978 |
| A1247-5 | 5 | 0.1969 | | 44 | 86 | 52 | 5 |
| A1247-NO8 | 5.055 | 0.1990 | No. 08 | 44 | 86 | 52 | 5.055 |
| A1247-5.1 | 5.1 | 0.2008 | | 44 | 86 | 52 | 5.1 |
| A1247-NO7 | 5.105 | 0.2010 | No. 07 | 44 | 86 | 52 | 5.105 |
| A1247-13/64IN | 5.159 | 0.2031 | 13/64" | 44 | 86 | 52 | 5.159 |
| A1247-NO6 | 5.182 | 0.2040 | No. 06 | 44 | 86 | 52 | 5.182 |
| A1247-5.2 | 5.2 | 0.2047 | | 44 | 86 | 52 | 5.2 |
| A1247-NO5 | 5.22 | 0.2055 | No. 05 | 44 | 86 | 52 | 5.22 |
| A1247-5.3 | 5.3 | 0.2087 | | 44 | 86 | 52 | 5.3 |
| A1247-NO4 | 5.309 | 0.2090 | No. 04 | 48 | 93 | 57 | 5.309 |
| A1247-5.4 | 5.4 | 0.2126 | | 48 | 93 | 57 | 5.4 |
| A1247-NO3 | 5.41 | 0.2130 | No. 03 | 48 | 93 | 57 | 5.41 |
| A1247-5.5 | 5.5 | 0.2165 | | 48 | 93 | 57 | 5.5 |
| A1247-7/32IN | 5.556 | 0.2187 | 7/32" | 48 | 93 | 57 | 5.556 |
| A1247-5.6 | 5.6 | 0.2205 | | 48 | 93 | 57 | 5.6 |
| A1247-NO2 | 5.613 | 0.2210 | No. 02 | 48 | 93 | 57 | 5.613 |
| A1247-5.7 | 5.7 | 0.2244 | | 48 | 93 | 57 | 5.7 |
| A1247-NO1 | 5.791 | 0.2280 | No. 01 | 48 | 93 | 57 | 5.791 |
| A1247-5.8 | 5.8 | 0.2283 | | 48 | 93 | 57 | 5.8 |
| A1247-5.9 | 5.9 | 0.2323 | | 48 | 93 | 57 | 5.9 |
| A1247-15/64IN | 5.953 | 0.2344 | 15/64" | 48 | 93 | 57 | 5.953 |
| A1247-6 | 6 | 0.2362 | | 48 | 93 | 57 | 6 |
| A1247-6.1 | 6.1 | 0.2402 | | 52 | 101 | 63 | 6.1 |
| A1247-6.2 | 6.2 | 0.2441 | | 52 | 101 | 63 | 6.2 |
| A1247-6.3 | 6.3 | 0.2480 | | 52 | 101 | 63 | 6.3 |
| A1247-1/4IN | 6.35 | 0.2500 | 1/4" | 52 | 101 | 63 | 6.35 |
| A1247-6.4 | 6.4 | 0.2520 | | 52 | 101 | 63 | 6.4 |
| A1247-6.5 | 6.5 | 0.2559 | | 52 | 101 | 63 | 6.5 |

## Tool

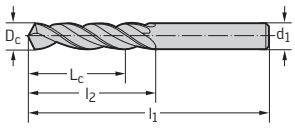



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1247-6.6 | 6.6 | 0.2598 | | 52 | 101 | 63 | 6.6 |
| A1247-6.7 | 6.7 | 0.2638 | | 52 | 101 | 63 | 6.7 |
| A1247-17/64IN | 6.747 | 0.2656 | 17/64" | 57 | 109 | 69 | 6.747 |
| A1247-6.8 | 6.8 | 0.2677 | | 57 | 109 | 69 | 6.8 |
| A1247-6.9 | 6.9 | 0.2717 | | 57 | 109 | 69 | 6.9 |
| A1247-7 | 7 | 0.2756 | | 57 | 109 | 69 | 7 |
| A1247-7.1 | 7.1 | 0.2795 | | 57 | 109 | 69 | 7.1 |
| A1247-9/32IN | 7.144 | 0.2813 | 9/32" | 57 | 109 | 69 | 7.144 |
| A1247-7.2 | 7.2 | 0.2835 | | 57 | 109 | 69 | 7.2 |
| A1247-7.3 | 7.3 | 0.2874 | | 57 | 109 | 69 | 7.3 |
| A1247-7.4 | 7.4 | 0.2913 | | 57 | 109 | 69 | 7.4 |
| A1247-7.5 | 7.5 | 0.2953 | | 57 | 109 | 69 | 7.5 |
| A1247-19/64IN | 7.541 | 0.2969 | 19/64" | 62 | 117 | 75 | 7.541 |
| A1247-7.6 | 7.6 | 0.2992 | | 62 | 117 | 75 | 7.6 |
| A1247-7.7 | 7.7 | 0.3031 | | 62 | 117 | 75 | 7.7 |
| A1247-7.8 | 7.8 | 0.3071 | | 62 | 117 | 75 | 7.8 |
| A1247-7.9 | 7.9 | 0.3110 | | 62 | 117 | 75 | 7.9 |
| A1247-5/16IN | 7.938 | 0.3125 | 5/16" | 62 | 117 | 75 | 7.938 |
| A1247-8 | 8 | 0.3150 | | 62 | 117 | 75 | 8 |
| A1247-8.1 | 8.1 | 0.3189 | | 62 | 117 | 75 | 8.1 |
| A1247-8.2 | 8.2 | 0.3228 | | 62 | 117 | 75 | 8.2 |
| A1247-8.3 | 8.3 | 0.3268 | | 62 | 117 | 75 | 8.3 |
| A1247-21/64IN | 8.334 | 0.3281 | 21/64" | 62 | 117 | 75 | 8.334 |
| A1247-8.4 | 8.4 | 0.3307 | | 62 | 117 | 75 | 8.4 |
| A1247-8.5 | 8.5 | 0.3346 | | 62 | 117 | 75 | 8.5 |
| A1247-8.6 | 8.6 | 0.3386 | | 66 | 125 | 81 | 8.6 |
| A1247-8.7 | 8.7 | 0.3425 | | 66 | 125 | 81 | 8.7 |
| A1247-11/32IN | 8.731 | 0.3437 | 11/32" | 66 | 125 | 81 | 8.731 |
| A1247-8.8 | 8.8 | 0.3465 | | 66 | 125 | 81 | 8.8 |
| A1247-8.9 | 8.9 | 0.3504 | | 66 | 125 | 81 | 8.9 |
| A1247-9 | 9 | 0.3543 | | 66 | 125 | 81 | 9 |
| A1247-9.1 | 9.1 | 0.3583 | | 66 | 125 | 81 | 9.1 |
| A1247-23/64IN | 9.128 | 0.3594 | 23/64" | 66 | 125 | 81 | 9.128 |
| A1247-9.2 | 9.2 | 0.3622 | | 66 | 125 | 81 | 9.2 |
| A1247-9.3 | 9.3 | 0.3661 | | 66 | 125 | 81 | 9.3 |
| A1247-9.4 | 9.4 | 0.3701 | | 66 | 125 | 81 | 9.4 |
| A1247-9.5 | 9.5 | 0.3740 | | 66 | 125 | 81 | 9.5 |
| A1247-3/8IN | 9.525 | 0.3750 | 3/8" | 71 | 133 | 87 | 9.525 |
| A1247-9.6 | 9.6 | 0.3780 | | 71 | 133 | 87 | 9.6 |
| A1247-9.7 | 9.7 | 0.3819 | | 71 | 133 | 87 | 9.7 |
| A1247-9.8 | 9.8 | 0.3858 | | 71 | 133 | 87 | 9.8 |
| A1247-9.9 | 9.9 | 0.3898 | | 71 | 133 | 87 | 9.9 |
| A1247-25/64IN | 9.922 | 0.3906 | 25/64" | 71 | 133 | 87 | 9.922 |
| A1247-10 | 10 | 0.3937 | | 71 | 133 | 87 | 10 |
| A1247-10.2 | 10.2 | 0.4016 | | 71 | 133 | 87 | 10.2 |
| A1247-13/32IN | 10.319 | 0.4063 | 13/32" | 71 | 133 | 87 | 10.319 |
| A1247-10.5 | 10.5 | 0.4134 | | 71 | 133 | 87 | 10.5 |
| A1247-27/64IN | 10.716 | 0.4219 | 27/64" | 76 | 142 | 94 | 10.716 |

## Tool




Cylindrical shank

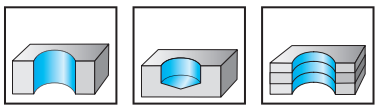
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1247-10.8 | 10.8 | 0.4252 | | 76 | 142 | 94 | 10.8 |
| A1247-11 | 11 | 0.4331 | | 76 | 142 | 94 | 11 |
| A1247-7/16IN | 11.113 | 0.4375 | 7/16" | 76 | 142 | 94 | 11.113 |
| A1247-11.2 | 11.2 | 0.4409 | | 76 | 142 | 94 | 11.2 |
| A1247-11.5 | 11.5 | 0.4528 | | 76 | 142 | 94 | 11.5 |
| A1247-29/64IN | 11.509 | 0.4531 | 29/64" | 76 | 142 | 94 | 11.509 |
| A1247-11.8 | 11.8 | 0.4646 | | 76 | 142 | 94 | 11.8 |
| A1247-15/32IN | 11.906 | 0.4687 | 15/32" | 87 | 151 | 101 | 11.906 |
| A1247-12 | 12 | 0.4724 | | 87 | 151 | 101 | 12 |
| A1247-31/64IN | 12.303 | 0.4844 | 31/64" | 87 | 151 | 101 | 12.303 |
| A1247-12.5 | 12.5 | 0.4921 | | 87 | 151 | 101 | 12.5 |
| A1247-1/2IN | 12.7 | 0.5000 | 1/2" | 87 | 151 | 101 | 12.7 |
| A1247-13 | 13 | 0.5118 | | 87 | 151 | 101 | 13 |
| A1247-13.1 | 13.1 | 0.5157 | | 87 | 151 | 101 | 13.1 |
| A1247-13.3 | 13.3 | 0.5236 | | 94 | 160 | 108 | 13.3 |
| A1247-13.5 | 13.5 | 0.5315 | | 94 | 160 | 108 | 13.5 |
| A1247-14 | 14 | 0.5512 | | 94 | 160 | 108 | 14 |
| A1247-14.5 | 14.5 | 0.5709 | | 99 | 169 | 114 | 14.5 |
| A1247-15 | 15 | 0.5906 | | 99 | 169 | 114 | 15 |
| A1247-15.1 | 15.1 | 0.5945 | | 104 | 178 | 120 | 15.1 |
| A1247-15.3 | 15.3 | 0.6024 | | 104 | 178 | 120 | 15.3 |
| A1247-15.5 | 15.5 | 0.6102 | | 104 | 178 | 120 | 15.5 |
| A1247-16 | 16 | 0.6299 | | 104 | 178 | 120 | 16 |

# HSS-E twist drills

## A1244

## VA

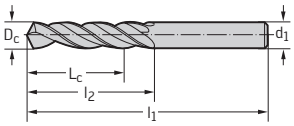
– Available as a set




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

B1

## Tool




Cylindrical shank

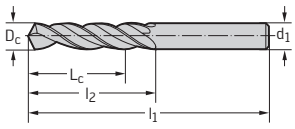
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1244-0.3 | 0.3 | 0.0118 | | 2.5 | 19 | 3 | 0.3 |
| A1244-NO80 | 0.343 | 0.0135 | | 3.4 | 19 | 4 | 0.343 |
| A1244-0.35 | 0.35 | 0.0138 | | 3.4 | 19 | 4 | 0.35 |
| A1244-1/64IN | 0.397 | 0.0156 | | 4.2 | 20 | 5 | 0.397 |
| A1244-0.4 | 0.4 | 0.0157 | | 4.2 | 20 | 5 | 0.4 |
| A1244-NO78 | 0.406 | 0.0160 | | 4.2 | 20 | 5 | 0.406 |
| A1244-0.45 | 0.45 | 0.0177 | | 4.2 | 20 | 5 | 0.45 |
| A1244-NO77 | 0.457 | 0.0180 | | 4.2 | 20 | 5 | 0.457 |
| A1244-0.5 | 0.5 | 0.0197 | | 5.2 | 22 | 6 | 0.5 |
| A1244-NO76 | 0.508 | 0.0200 | No.76 | 5.2 | 22 | 6 | 0.508 |
| A1244-NO75 | 0.533 | 0.0210 | | 6.1 | 24 | 7 | 0.533 |
| A1244-0.55 | 0.55 | 0.0217 | | 6.1 | 24 | 7 | 0.55 |
| A1244-NO74 | 0.572 | 0.0225 | | 6.1 | 24 | 7 | 0.572 |
| A1244-0.6 | 0.6 | 0.0236 | | 6.1 | 24 | 7 | 0.6 |
| A1244-NO73 | 0.61 | 0.0240 | | 6.9 | 26 | 8 | 0.61 |
| A1244-NO72 | 0.635 | 0.0250 | No.72 | 6.9 | 26 | 8 | 0.635 |
| A1244-0.65 | 0.65 | 0.0256 | | 6.9 | 26 | 8 | 0.65 |
| A1244-NO71 | 0.66 | 0.0260 | | 6.9 | 26 | 8 | 0.66 |
| A1244-0.7 | 0.7 | 0.0276 | | 7.8 | 28 | 9 | 0.7 |
| A1244-NO70 | 0.711 | 0.0280 | | 7.8 | 28 | 9 | 0.711 |
| A1244-NO69 | 0.742 | 0.0292 | | 7.8 | 28 | 9 | 0.742 |
| A1244-0.75 | 0.75 | 0.0295 | | 7.8 | 28 | 9 | 0.75 |
| A1244-NO68 | 0.787 | 0.0310 | | 8.7 | 30 | 10 | 0.787 |
| A1244-1/32IN | 0.794 | 0.0313 | 1/32" | 8.7 | 30 | 10 | 0.794 |
| A1244-0.8 | 0.8 | 0.0315 | | 8.7 | 30 | 10 | 0.8 |
| A1244-NO67 | 0.813 | 0.0320 | | 8.7 | 30 | 10 | 0.813 |
| A1244-NO66 | 0.838 | 0.0330 | | 8.7 | 30 | 10 | 0.838 |
| A1244-0.85 | 0.85 | 0.0335 | | 8.7 | 30 | 10 | 0.85 |
| A1244-NO65 | 0.889 | 0.0350 | No.65 | 9.5 | 32 | 11 | 0.889 |
| A1244-0.9 | 0.9 | 0.0354 | | 9.5 | 32 | 11 | 0.9 |
| A1244-NO64 | 0.914 | 0.0360 | | 9.5 | 32 | 11 | 0.914 |
| A1244-NO63 | 0.94 | 0.0370 | | 9.5 | 32 | 11 | 0.94 |
| A1244-0.95 | 0.95 | 0.0374 | | 9.5 | 32 | 11 | 0.95 |
| A1244-NO62 | 0.965 | 0.0380 | | 10 | 34 | 12 | 0.965 |
| A1244-NO61 | 0.991 | 0.0390 | | 10 | 34 | 12 | 0.991 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

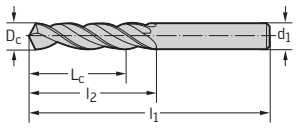
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1244-1 | 1 | 0.0394 | | 10 | 34 | 12 | 1 |
| A1244-NO60 | 1.016 | 0.0400 | No. 60 | 10 | 34 | 12 | 1.016 |
| A1244-NO59 | 1.041 | 0.0410 | No. 59 | 10 | 34 | 12 | 1.041 |
| A1244-1.05 | 1.05 | 0.0413 | | 10 | 34 | 12 | 1.05 |
| A1244-NO58 | 1.067 | 0.0420 | No. 58 | 12 | 36 | 14 | 1.067 |
| A1244-NO57 | 1.092 | 0.0430 | No. 57 | 12 | 36 | 14 | 1.092 |
| A1244-1.1 | 1.1 | 0.0433 | | 12 | 36 | 14 | 1.1 |
| A1244-1.15 | 1.15 | 0.0453 | | 12 | 36 | 14 | 1.15 |
| A1244-NO56 | 1.181 | 0.0465 | No. 56 | 14 | 38 | 16 | 1.181 |
| A1244-3/64IN | 1.191 | 0.0469 | 3/64" | 14 | 38 | 16 | 1.191 |
| A1244-1.2 | 1.2 | 0.0472 | | 14 | 38 | 16 | 1.2 |
| A1244-1.25 | 1.25 | 0.0492 | | 14 | 38 | 16 | 1.25 |
| A1244-1.3 | 1.3 | 0.0512 | | 14 | 38 | 16 | 1.3 |
| A1244-NO55 | 1.321 | 0.0520 | No. 55 | 15 | 40 | 18 | 1.321 |
| A1244-1.35 | 1.35 | 0.0531 | | 15 | 40 | 18 | 1.35 |
| A1244-NO54 | 1.397 | 0.0550 | No. 54 | 15 | 40 | 18 | 1.397 |
| A1244-1.4 | 1.4 | 0.0551 | | 15 | 40 | 18 | 1.4 |
| A1244-1.45 | 1.45 | 0.0571 | | 15 | 40 | 18 | 1.45 |
| A1244-1.5 | 1.5 | 0.0591 | | 15 | 40 | 18 | 1.5 |
| A1244-NO53 | 1.511 | 0.0595 | No. 53 | 17 | 43 | 20 | 1.511 |
| A1244-1.55 | 1.55 | 0.0610 | | 17 | 43 | 20 | 1.55 |
| A1244-1/16IN | 1.588 | 0.0625 | 1/16" | 17 | 43 | 20 | 1.588 |
| A1244-1.6 | 1.6 | 0.0630 | | 17 | 43 | 20 | 1.6 |
| A1244-NO52 | 1.613 | 0.0635 | No. 52 | 17 | 43 | 20 | 1.613 |
| A1244-1.65 | 1.65 | 0.0650 | | 17 | 43 | 20 | 1.65 |
| A1244-1.7 | 1.7 | 0.0669 | | 17 | 43 | 20 | 1.7 |
| A1244-NO51 | 1.702 | 0.0670 | No. 51 | 19 | 46 | 22 | 1.702 |
| A1244-1.75 | 1.75 | 0.0689 | | 19 | 46 | 22 | 1.75 |
| A1244-NO50 | 1.778 | 0.0700 | No. 50 | 19 | 46 | 22 | 1.778 |
| A1244-1.8 | 1.8 | 0.0709 | | 19 | 46 | 22 | 1.8 |
| A1244-1.85 | 1.85 | 0.0728 | | 19 | 46 | 22 | 1.85 |
| A1244-NO49 | 1.854 | 0.0730 | No. 49 | 19 | 46 | 22 | 1.854 |
| A1244-1.9 | 1.9 | 0.0748 | | 19 | 46 | 22 | 1.9 |
| A1244-NO48 | 1.93 | 0.0760 | No. 48 | 20 | 49 | 24 | 1.93 |
| A1244-1.95 | 1.95 | 0.0768 | | 20 | 49 | 24 | 1.95 |
| A1244-5/64IN | 1.984 | 0.0781 | 5/64" | 20 | 49 | 24 | 1.984 |
| A1244-NO47 | 1.994 | 0.0785 | No. 47 | 20 | 49 | 24 | 1.994 |
| A1244-2 | 2 | 0.0787 | | 20 | 49 | 24 | 2 |
| A1244-2.05 | 2.05 | 0.0807 | | 20 | 49 | 24 | 2.05 |
| A1244-NO46 | 2.057 | 0.0810 | No. 46 | 20 | 49 | 24 | 2.057 |
| A1244-NO45 | 2.083 | 0.0820 | No. 45 | 20 | 49 | 24 | 2.083 |
| A1244-2.1 | 2.1 | 0.0827 | | 20 | 49 | 24 | 2.1 |
| A1244-2.15 | 2.15 | 0.0846 | | 23 | 53 | 27 | 2.15 |
| A1244-NO44 | 2.184 | 0.0860 | No. 44 | 23 | 53 | 27 | 2.184 |
| A1244-2.2 | 2.2 | 0.0866 | | 23 | 53 | 27 | 2.2 |
| A1244-2.25 | 2.25 | 0.0886 | | 23 | 53 | 27 | 2.25 |
| A1244-2.3 | 2.3 | 0.0906 | | 23 | 53 | 27 | 2.3 |
| A1244-2.35 | 2.35 | 0.0925 | | 23 | 53 | 27 | 2.35 |

## Tool

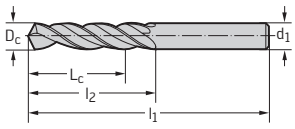



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1244-NO42 | 2.375 | 0.0935 | No. 42 | 26 | 57 | 30 | 2.375 |
| A1244-3/32IN | 2.381 | 0.0937 | 3/32" | 26 | 57 | 30 | 2.381 |
| A1244-2.4 | 2.4 | 0.0945 | | 26 | 57 | 30 | 2.4 |
| A1244-NO41 | 2.438 | 0.0960 | No. 41 | 26 | 57 | 30 | 2.438 |
| A1244-2.45 | 2.45 | 0.0965 | | 26 | 57 | 30 | 2.45 |
| A1244-NO40 | 2.489 | 0.0980 | No. 40 | 26 | 57 | 30 | 2.489 |
| A1244-2.5 | 2.5 | 0.0984 | | 26 | 57 | 30 | 2.5 |
| A1244-NO39 | 2.527 | 0.0995 | No. 39 | 26 | 57 | 30 | 2.527 |
| A1244-2.55 | 2.55 | 0.1004 | | 26 | 57 | 30 | 2.55 |
| A1244-NO38 | 2.578 | 0.1015 | No. 38 | 26 | 57 | 30 | 2.578 |
| A1244-2.6 | 2.6 | 0.1024 | | 26 | 57 | 30 | 2.6 |
| A1244-NO37 | 2.642 | 0.1040 | No. 37 | 26 | 57 | 30 | 2.642 |
| A1244-2.65 | 2.65 | 0.1043 | | 26 | 57 | 30 | 2.65 |
| A1244-2.7 | 2.7 | 0.1063 | | 28 | 61 | 33 | 2.7 |
| A1244-2.75 | 2.75 | 0.1083 | | 28 | 61 | 33 | 2.75 |
| A1244-7/64IN | 2.778 | 0.1094 | 7/64" | 28 | 61 | 33 | 2.778 |
| A1244-2.8 | 2.8 | 0.1102 | | 28 | 61 | 33 | 2.8 |
| A1244-NO34 | 2.819 | 0.1110 | No. 34 | 28 | 61 | 33 | 2.819 |
| A1244-2.85 | 2.85 | 0.1122 | | 28 | 61 | 33 | 2.85 |
| A1244-NO33 | 2.87 | 0.1130 | No. 33 | 28 | 61 | 33 | 2.87 |
| A1244-2.9 | 2.9 | 0.1142 | | 28 | 61 | 33 | 2.9 |
| A1244-NO32 | 2.946 | 0.1160 | No. 32 | 28 | 61 | 33 | 2.946 |
| A1244-2.95 | 2.95 | 0.1161 | | 28 | 61 | 33 | 2.95 |
| A1244-3 | 3 | 0.1181 | | 28 | 61 | 33 | 3 |
| A1244-NO31 | 3.048 | 0.1200 | No. 31 | 30 | 65 | 36 | 3.048 |
| A1244-3.1 | 3.1 | 0.1220 | | 30 | 65 | 36 | 3.1 |
| A1244-1/8IN | 3.175 | 0.1250 | 1/8" | 30 | 65 | 36 | 3.175 |
| A1244-3.2 | 3.2 | 0.1260 | | 30 | 65 | 36 | 3.2 |
| A1244-NO30 | 3.264 | 0.1285 | No. 30 | 30 | 65 | 36 | 3.264 |
| A1244-3.3 | 3.3 | 0.1299 | | 30 | 65 | 36 | 3.3 |
| A1244-3.4 | 3.4 | 0.1339 | | 33 | 70 | 39 | 3.4 |
| A1244-NO29 | 3.454 | 0.1360 | No. 29 | 33 | 70 | 39 | 3.454 |
| A1244-3.5 | 3.5 | 0.1378 | | 33 | 70 | 39 | 3.5 |
| A1244-NO28 | 3.569 | 0.1405 | No. 28 | 33 | 70 | 39 | 3.569 |
| A1244-9/64IN | 3.572 | 0.1406 | 9/64" | 33 | 70 | 39 | 3.572 |
| A1244-3.6 | 3.6 | 0.1417 | | 33 | 70 | 39 | 3.6 |
| A1244-3.65 | 3.65 | 0.1437 | | 33 | 70 | 39 | 3.65 |
| A1244-NO27 | 3.658 | 0.1440 | No. 27 | 33 | 70 | 39 | 3.658 |
| A1244-3.7 | 3.7 | 0.1457 | | 33 | 70 | 39 | 3.7 |
| A1244-NO26 | 3.734 | 0.1470 | No. 26 | 33 | 70 | 39 | 3.734 |
| A1244-NO25 | 3.797 | 0.1495 | No. 25 | 36 | 75 | 43 | 3.797 |
| A1244-3.8 | 3.8 | 0.1496 | | 36 | 75 | 43 | 3.8 |
| A1244-NO24 | 3.861 | 0.1520 | No. 24 | 36 | 75 | 43 | 3.861 |
| A1244-3.9 | 3.9 | 0.1535 | | 36 | 75 | 43 | 3.9 |
| A1244-NO23 | 3.912 | 0.1540 | No. 23 | 36 | 75 | 43 | 3.912 |
| A1244-5/32IN | 3.969 | 0.1563 | 5/32" | 36 | 75 | 43 | 3.969 |
| A1244-4 | 4 | 0.1575 | | 36 | 75 | 43 | 4 |
| A1244-NO21 | 4.039 | 0.1590 | No. 21 | 36 | 75 | 43 | 4.039 |

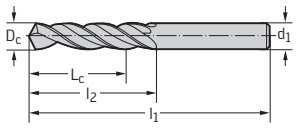
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1244-NO20 | 4.089 | 0.1610 | No. 20 | 36 | 75 | 43 | 4.089 |
| A1244-4.1 | 4.1 | 0.1614 | | 36 | 75 | 43 | 4.1 |
| A1244-4.2 | 4.2 | 0.1654 | | 36 | 75 | 43 | 4.2 |
| A1244-NO19 | 4.216 | 0.1660 | No. 19 | 36 | 75 | 43 | 4.216 |
| A1244-4.3 | 4.3 | 0.1693 | | 39 | 80 | 47 | 4.3 |
| A1244-11/64IN | 4.366 | 0.1719 | 11/64" | 39 | 80 | 47 | 4.366 |
| A1244-4.4 | 4.4 | 0.1732 | | 39 | 80 | 47 | 4.4 |
| A1244-4.5 | 4.5 | 0.1772 | | 39 | 80 | 47 | 4.5 |
| A1244-NO15 | 4.572 | 0.1800 | No. 15 | 39 | 80 | 47 | 4.572 |
| A1244-4.6 | 4.6 | 0.1811 | | 39 | 80 | 47 | 4.6 |
| A1244-NO14 | 4.623 | 0.1820 | No. 14 | 39 | 80 | 47 | 4.623 |
| A1244-4.7 | 4.7 | 0.1850 | | 39 | 80 | 47 | 4.7 |
| A1244-3/16IN | 4.763 | 0.1875 | 3/16" | 44 | 86 | 52 | 4.763 |
| A1244-4.8 | 4.8 | 0.1890 | | 44 | 86 | 52 | 4.8 |
| A1244-NO12 | 4.801 | 0.1890 | No. 12 | 44 | 86 | 52 | 4.801 |
| A1244-NO11 | 4.851 | 0.1910 | No. 11 | 44 | 86 | 52 | 4.851 |
| A1244-4.9 | 4.9 | 0.1929 | | 44 | 86 | 52 | 4.9 |
| A1244-NO10 | 4.915 | 0.1935 | No. 10 | 44 | 86 | 52 | 4.915 |
| A1244-NO9 | 4.978 | 0.1960 | No. 09 | 44 | 86 | 52 | 4.978 |
| A1244-5 | 5 | 0.1969 | | 44 | 86 | 52 | 5 |
| A1244-NO8 | 5.055 | 0.1990 | No. 08 | 44 | 86 | 52 | 5.055 |
| A1244-5.1 | 5.1 | 0.2008 | | 44 | 86 | 52 | 5.1 |
| A1244-NO7 | 5.105 | 0.2010 | No. 07 | 44 | 86 | 52 | 5.105 |
| A1244-13/64IN | 5.159 | 0.2031 | 13/64" | 44 | 86 | 52 | 5.159 |
| A1244-5.2 | 5.2 | 0.2047 | | 44 | 86 | 52 | 5.2 |
| A1244-NO5 | 5.22 | 0.2055 | No. 05 | 44 | 86 | 52 | 5.22 |
| A1244-5.3 | 5.3 | 0.2087 | | 44 | 86 | 52 | 5.3 |
| A1244-5.4 | 5.4 | 0.2126 | | 48 | 93 | 57 | 5.4 |
| A1244-NO3 | 5.41 | 0.2130 | No. 03 | 48 | 93 | 57 | 5.41 |
| A1244-5.5 | 5.5 | 0.2165 | | 48 | 93 | 57 | 5.5 |
| A1244-7/32IN | 5.556 | 0.2187 | 7/32" | 48 | 93 | 57 | 5.556 |
| A1244-5.6 | 5.6 | 0.2205 | | 48 | 93 | 57 | 5.6 |
| A1244-NO2 | 5.613 | 0.2210 | No. 02 | 48 | 93 | 57 | 5.613 |
| A1244-5.7 | 5.7 | 0.2244 | | 48 | 93 | 57 | 5.7 |
| A1244-5.8 | 5.8 | 0.2283 | | 48 | 93 | 57 | 5.8 |
| A1244-5.9 | 5.9 | 0.2323 | | 48 | 93 | 57 | 5.9 |
| A1244-6 | 6 | 0.2362 | | 48 | 93 | 57 | 6 |
| A1244-6.1 | 6.1 | 0.2402 | | 52 | 101 | 63 | 6.1 |
| A1244-6.2 | 6.2 | 0.2441 | | 52 | 101 | 63 | 6.2 |
| A1244-6.3 | 6.3 | 0.2480 | | 52 | 101 | 63 | 6.3 |
| A1244-1/4IN | 6.35 | 0.2500 | 1/4" | 52 | 101 | 63 | 6.35 |
| A1244-6.4 | 6.4 | 0.2520 | | 52 | 101 | 63 | 6.4 |
| A1244-6.5 | 6.5 | 0.2559 | | 52 | 101 | 63 | 6.5 |
| A1244-6.6 | 6.6 | 0.2598 | | 52 | 101 | 63 | 6.6 |
| A1244-6.7 | 6.7 | 0.2638 | | 52 | 101 | 63 | 6.7 |
| A1244-17/64IN | 6.747 | 0.2656 | 17/64" | 57 | 109 | 69 | 6.747 |
| A1244-6.8 | 6.8 | 0.2677 | | 57 | 109 | 69 | 6.8 |
| A1244-6.9 | 6.9 | 0.2717 | | 57 | 109 | 69 | 6.9 |

## Tool

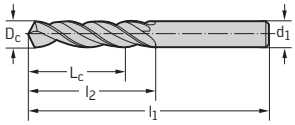



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1244-7 | 7 | 0.2756 | | 57 | 109 | 69 | 7 |
| A1244-7.1 | 7.1 | 0.2795 | | 57 | 109 | 69 | 7.1 |
| A1244-9/32IN | 7.144 | 0.2813 | 9/32" | 57 | 109 | 69 | 7.144 |
| A1244-7.2 | 7.2 | 0.2835 | | 57 | 109 | 69 | 7.2 |
| A1244-7.3 | 7.3 | 0.2874 | | 57 | 109 | 69 | 7.3 |
| A1244-7.4 | 7.4 | 0.2913 | | 57 | 109 | 69 | 7.4 |
| A1244-7.5 | 7.5 | 0.2953 | | 57 | 109 | 69 | 7.5 |
| A1244-19/64IN | 7.541 | 0.2969 | 19/64" | 62 | 117 | 75 | 7.541 |
| A1244-7.6 | 7.6 | 0.2992 | | 62 | 117 | 75 | 7.6 |
| A1244-7.7 | 7.7 | 0.3031 | | 62 | 117 | 75 | 7.7 |
| A1244-7.8 | 7.8 | 0.3071 | | 62 | 117 | 75 | 7.8 |
| A1244-7.9 | 7.9 | 0.3110 | | 62 | 117 | 75 | 7.9 |
| A1244-5/16IN | 7.938 | 0.3125 | 5/16" | 62 | 117 | 75 | 7.938 |
| A1244-8 | 8 | 0.3150 | | 62 | 117 | 75 | 8 |
| A1244-8.1 | 8.1 | 0.3189 | | 62 | 117 | 75 | 8.1 |
| A1244-8.2 | 8.2 | 0.3228 | | 62 | 117 | 75 | 8.2 |
| A1244-8.3 | 8.3 | 0.3268 | | 62 | 117 | 75 | 8.3 |
| A1244-21/64IN | 8.334 | 0.3281 | 21/64" | 62 | 117 | 75 | 8.334 |
| A1244-8.4 | 8.4 | 0.3307 | | 62 | 117 | 75 | 8.4 |
| A1244-8.5 | 8.5 | 0.3346 | | 62 | 117 | 75 | 8.5 |
| A1244-8.6 | 8.6 | 0.3386 | | 66 | 125 | 81 | 8.6 |
| A1244-8.7 | 8.7 | 0.3425 | | 66 | 125 | 81 | 8.7 |
| A1244-11/32IN | 8.731 | 0.3437 | 11/32" | 66 | 125 | 81 | 8.731 |
| A1244-8.8 | 8.8 | 0.3465 | | 66 | 125 | 81 | 8.8 |
| A1244-8.9 | 8.9 | 0.3504 | | 66 | 125 | 81 | 8.9 |
| A1244-9 | 9 | 0.3543 | | 66 | 125 | 81 | 9 |
| A1244-9.1 | 9.1 | 0.3583 | | 66 | 125 | 81 | 9.1 |
| A1244-9.2 | 9.2 | 0.3622 | | 66 | 125 | 81 | 9.2 |
| A1244-9.3 | 9.3 | 0.3661 | | 66 | 125 | 81 | 9.3 |
| A1244-9.4 | 9.4 | 0.3701 | | 66 | 125 | 81 | 9.4 |
| A1244-9.5 | 9.5 | 0.3740 | | 66 | 125 | 81 | 9.5 |
| A1244-3/8IN | 9.525 | 0.3750 | 3/8" | 71 | 133 | 87 | 9.525 |
| A1244-9.6 | 9.6 | 0.3780 | | 71 | 133 | 87 | 9.6 |
| A1244-9.7 | 9.7 | 0.3819 | | 71 | 133 | 87 | 9.7 |
| A1244-9.8 | 9.8 | 0.3858 | | 71 | 133 | 87 | 9.8 |
| A1244-9.9 | 9.9 | 0.3898 | | 71 | 133 | 87 | 9.9 |
| A1244-10 | 10 | 0.3937 | | 71 | 133 | 87 | 10 |
| A1244-10.2 | 10.2 | 0.4016 | | 71 | 133 | 87 | 10.2 |
| A1244-13/32IN | 10.319 | 0.4063 | 13/32" | 71 | 133 | 87 | 10.319 |
| A1244-10.5 | 10.5 | 0.4134 | | 71 | 133 | 87 | 10.5 |
| A1244-27/64IN | 10.716 | 0.4219 | 27/64" | 76 | 142 | 94 | 10.716 |
| A1244-11 | 11 | 0.4331 | | 76 | 142 | 94 | 11 |
| A1244-7/16IN | 11.113 | 0.4375 | 7/16" | 76 | 142 | 94 | 11.113 |
| A1244-11.2 | 11.2 | 0.4409 | | 76 | 142 | 94 | 11.2 |
| A1244-11.5 | 11.5 | 0.4528 | | 76 | 142 | 94 | 11.5 |
| A1244-15/32IN | 11.906 | 0.4687 | 15/32" | 87 | 151 | 101 | 11.906 |
| A1244-12 | 12 | 0.4724 | | 87 | 151 | 101 | 12 |
| A1244-31/64IN | 12.303 | 0.4844 | 31/64" | 87 | 151 | 101 | 12.303 |

## Tool




Cylindrical shank

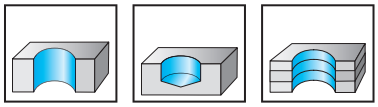
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1244-12.5 | 12.5 | 0.4921 | | 87 | 151 | 101 | 12.5 |
| A1244-1/2IN | 12.7 | 0.5000 | 1/2" | 87 | 151 | 101 | 12.7 |
| A1244-13 | 13 | 0.5118 | | 87 | 151 | 101 | 13 |
| A1244-33/64IN | 13.097 | 0.5156 | | 87 | 151 | 101 | 13.097 |
| A1244-17/32IN | 13.494 | 0.5313 | 17/32" | 94 | 160 | 108 | 13.494 |
| A1244-13.5 | 13.5 | 0.5315 | | 94 | 160 | 108 | 13.5 |
| A1244-35/64IN | 13.891 | 0.5469 | | 94 | 160 | 108 | 13.891 |
| A1244-14 | 14 | 0.5512 | | 94 | 160 | 108 | 14 |
| A1244-9/16IN | 14.288 | 0.5625 | 9/16" | 99 | 169 | 114 | 14.288 |
| A1244-14.5 | 14.5 | 0.5709 | | 99 | 169 | 114 | 14.5 |
| A1244-15 | 15 | 0.5906 | | 99 | 169 | 114 | 15 |

# HSS deep-hole drills

## A1222

## UFL®

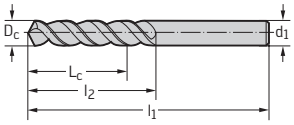
– Uncoated up to 1.9 mm
– Available as a set




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



## Tool




Cylindrical shank

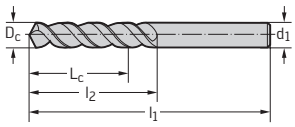
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1222-1 | 1 | 0.0394 | | 10 | 34 | 12 | 1 |
| A1222-NO60 | 1.016 | 0.0400 | No. 60 | 10 | 34 | 12 | 1.016 |
| A1222-NO59 | 1.041 | 0.0410 | No. 59 | 10 | 34 | 12 | 1.041 |
| A1222-NO58 | 1.067 | 0.0420 | No. 58 | 12 | 36 | 14 | 1.067 |
| A1222-NO57 | 1.092 | 0.0430 | No. 57 | 12 | 36 | 14 | 1.092 |
| A1222-1.1 | 1.1 | 0.0433 | | 12 | 36 | 14 | 1.1 |
| A1222-NO56 | 1.181 | 0.0465 | No. 56 | 14 | 38 | 16 | 1.181 |
| A1222-3/64IN | 1.191 | 0.0469 | 3/64" | 14 | 38 | 16 | 1.191 |
| A1222-1.2 | 1.2 | 0.0472 | | 14 | 38 | 16 | 1.2 |
| A1222-1.25 | 1.25 | 0.0492 | | 14 | 38 | 16 | 1.25 |
| A1222-1.3 | 1.3 | 0.0512 | | 14 | 38 | 16 | 1.3 |
| A1222-NO55 | 1.321 | 0.0520 | No. 55 | 15 | 40 | 18 | 1.321 |
| A1222-NO54 | 1.397 | 0.0550 | No. 54 | 15 | 40 | 18 | 1.397 |
| A1222-1.4 | 1.4 | 0.0551 | | 15 | 40 | 18 | 1.4 |
| A1222-1.5 | 1.5 | 0.0591 | | 15 | 40 | 18 | 1.5 |
| A1222-NO53 | 1.511 | 0.0595 | No. 53 | 17 | 43 | 20 | 1.511 |
| A1222-1/16IN | 1.588 | 0.0625 | 1/16" | 17 | 43 | 20 | 1.588 |
| A1222-1.6 | 1.6 | 0.0630 | | 17 | 43 | 20 | 1.6 |
| A1222-NO52 | 1.613 | 0.0635 | No. 52 | 17 | 43 | 20 | 1.613 |
| A1222-1.7 | 1.7 | 0.0669 | | 17 | 43 | 20 | 1.7 |
| A1222-NO51 | 1.702 | 0.0670 | No. 51 | 19 | 46 | 22 | 1.702 |
| A1222-NO50 | 1.778 | 0.0700 | No. 50 | 19 | 46 | 22 | 1.778 |
| A1222-1.8 | 1.8 | 0.0709 | | 19 | 46 | 22 | 1.8 |
| A1222-NO49 | 1.854 | 0.0730 | No. 49 | 19 | 46 | 22 | 1.854 |
| A1222-1.9 | 1.9 | 0.0748 | | 19 | 46 | 22 | 1.9 |
| A1222-NO48 | 1.93 | 0.0760 | No. 48 | 20 | 49 | 24 | 1.93 |
| A1222-5/64IN | 1.984 | 0.0781 | 5/64" | 20 | 49 | 24 | 1.984 |
| A1222-NO47 | 1.994 | 0.0785 | No. 47 | 20 | 49 | 24 | 1.994 |
| A1222-2 | 2 | 0.0787 | | 20 | 49 | 24 | 2 |
| A1222-NO46 | 2.057 | 0.0810 | No. 46 | 20 | 49 | 24 | 2.057 |
| A1222-NO45 | 2.083 | 0.0820 | No. 45 | 20 | 49 | 24 | 2.083 |
| A1222-2.1 | 2.1 | 0.0827 | | 20 | 49 | 24 | 2.1 |
| A1222-NO44 | 2.184 | 0.0860 | No. 44 | 23 | 53 | 27 | 2.184 |
| A1222-2.2 | 2.2 | 0.0866 | | 23 | 53 | 27 | 2.2 |
| A1222-NO43 | 2.261 | 0.0890 | No. 43 | 23 | 53 | 27 | 2.261 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

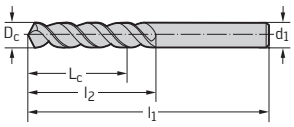
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1222-2.3 | 2.3 | 0.0906 | | 23 | 53 | 27 | 2.3 |
| A1222-NO42 | 2.375 | 0.0935 | No. 42 | 26 | 57 | 30 | 2.375 |
| A1222-3/32IN | 2.381 | 0.0937 | 3/32" | 26 | 57 | 30 | 2.381 |
| A1222-2.4 | 2.4 | 0.0945 | | 26 | 57 | 30 | 2.4 |
| A1222-NO41 | 2.438 | 0.0960 | No. 41 | 26 | 57 | 30 | 2.438 |
| A1222-NO40 | 2.489 | 0.0980 | No. 40 | 26 | 57 | 30 | 2.489 |
| A1222-2.5 | 2.5 | 0.0984 | | 26 | 57 | 30 | 2.5 |
| A1222-NO39 | 2.527 | 0.0995 | No. 39 | 26 | 57 | 30 | 2.527 |
| A1222-NO38 | 2.578 | 0.1015 | No. 38 | 26 | 57 | 30 | 2.578 |
| A1222-2.6 | 2.6 | 0.1024 | | 26 | 57 | 30 | 2.6 |
| A1222-NO37 | 2.642 | 0.1040 | No. 37 | 26 | 57 | 30 | 2.642 |
| A1222-2.7 | 2.7 | 0.1063 | | 28 | 61 | 33 | 2.7 |
| A1222-NO36 | 2.705 | 0.1065 | No. 36 | 28 | 61 | 33 | 2.705 |
| A1222-7/64IN | 2.778 | 0.1094 | 7/64" | 28 | 61 | 33 | 2.778 |
| A1222-NO35 | 2.794 | 0.1100 | No. 35 | 28 | 61 | 33 | 2.794 |
| A1222-2.8 | 2.8 | 0.1102 | | 28 | 61 | 33 | 2.8 |
| A1222-NO34 | 2.819 | 0.1110 | No. 34 | 28 | 61 | 33 | 2.819 |
| A1222-NO33 | 2.87 | 0.1130 | No. 33 | 28 | 61 | 33 | 2.87 |
| A1222-2.9 | 2.9 | 0.1142 | | 28 | 61 | 33 | 2.9 |
| A1222-NO32 | 2.946 | 0.1160 | No. 32 | 28 | 61 | 33 | 2.946 |
| A1222-3 | 3 | 0.1181 | | 28 | 61 | 33 | 3 |
| A1222-NO31 | 3.048 | 0.1200 | No. 31 | 30 | 65 | 36 | 3.048 |
| A1222-3.1 | 3.1 | 0.1220 | | 30 | 65 | 36 | 3.1 |
| A1222-1/8IN | 3.175 | 0.1250 | 1/8" | 30 | 65 | 36 | 3.175 |
| A1222-3.2 | 3.2 | 0.1260 | | 30 | 65 | 36 | 3.2 |
| A1222-NO30 | 3.264 | 0.1285 | No. 30 | 30 | 65 | 36 | 3.264 |
| A1222-3.3 | 3.3 | 0.1299 | | 30 | 65 | 36 | 3.3 |
| A1222-3.4 | 3.4 | 0.1339 | | 33 | 70 | 39 | 3.4 |
| A1222-NO29 | 3.454 | 0.1360 | No. 29 | 33 | 70 | 39 | 3.454 |
| A1222-3.5 | 3.5 | 0.1378 | | 33 | 70 | 39 | 3.5 |
| A1222-NO28 | 3.569 | 0.1405 | No. 28 | 33 | 70 | 39 | 3.569 |
| A1222-9/64IN | 3.572 | 0.1406 | 9/64" | 33 | 70 | 39 | 3.572 |
| A1222-3.6 | 3.6 | 0.1417 | | 33 | 70 | 39 | 3.6 |
| A1222-NO27 | 3.658 | 0.1440 | No. 27 | 33 | 70 | 39 | 3.658 |
| A1222-3.7 | 3.7 | 0.1457 | | 33 | 70 | 39 | 3.7 |
| A1222-NO26 | 3.734 | 0.1470 | No. 26 | 33 | 70 | 39 | 3.734 |
| A1222-NO25 | 3.797 | 0.1495 | No. 25 | 36 | 75 | 43 | 3.797 |
| A1222-3.8 | 3.8 | 0.1496 | | 36 | 75 | 43 | 3.8 |
| A1222-NO24 | 3.861 | 0.1520 | No. 24 | 36 | 75 | 43 | 3.861 |
| A1222-3.9 | 3.9 | 0.1535 | | 36 | 75 | 43 | 3.9 |
| A1222-NO23 | 3.912 | 0.1540 | No. 23 | 36 | 75 | 43 | 3.912 |
| A1222-5/32IN | 3.969 | 0.1563 | 5/32" | 36 | 75 | 43 | 3.969 |
| A1222-NO22 | 3.988 | 0.1570 | No. 22 | 36 | 75 | 43 | 3.988 |
| A1222-4 | 4 | 0.1575 | | 36 | 75 | 43 | 4 |
| A1222-NO21 | 4.039 | 0.1590 | No. 21 | 36 | 75 | 43 | 4.039 |
| A1222-NO20 | 4.089 | 0.1610 | No. 20 | 36 | 75 | 43 | 4.089 |
| A1222-4.1 | 4.1 | 0.1614 | | 36 | 75 | 43 | 4.1 |
| A1222-4.2 | 4.2 | 0.1654 | | 36 | 75 | 43 | 4.2 |

## Tool

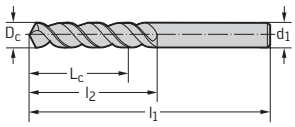



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1222-NO19 | 4.216 | 0.1660 | No. 19 | 36 | 75 | 43 | 4.216 |
| A1222-4.3 | 4.3 | 0.1693 | | 39 | 80 | 47 | 4.3 |
| A1222-NO18 | 4.305 | 0.1695 | No. 18 | 39 | 80 | 47 | 4.305 |
| A1222-11/64IN | 4.366 | 0.1719 | 11/64" | 39 | 80 | 47 | 4.366 |
| A1222-NO17 | 4.394 | 0.1730 | No. 17 | 39 | 80 | 47 | 4.394 |
| A1222-4.4 | 4.4 | 0.1732 | | 39 | 80 | 47 | 4.4 |
| A1222-NO16 | 4.496 | 0.1770 | No. 16 | 39 | 80 | 47 | 4.496 |
| A1222-4.5 | 4.5 | 0.1772 | | 39 | 80 | 47 | 4.5 |
| A1222-NO15 | 4.572 | 0.1800 | No. 15 | 39 | 80 | 47 | 4.572 |
| A1222-4.6 | 4.6 | 0.1811 | | 39 | 80 | 47 | 4.6 |
| A1222-NO14 | 4.623 | 0.1820 | No. 14 | 39 | 80 | 47 | 4.623 |
| A1222-NO13 | 4.699 | 0.1850 | No. 13 | 39 | 80 | 47 | 4.699 |
| A1222-4.7 | 4.7 | 0.1850 | | 39 | 80 | 47 | 4.7 |
| A1222-3/16IN | 4.763 | 0.1875 | 3/16" | 44 | 86 | 52 | 4.763 |
| A1222-4.8 | 4.8 | 0.1890 | | 44 | 86 | 52 | 4.8 |
| A1222-NO12 | 4.801 | 0.1890 | No. 12 | 44 | 86 | 52 | 4.801 |
| A1222-NO11 | 4.851 | 0.1910 | No. 11 | 44 | 86 | 52 | 4.851 |
| A1222-4.9 | 4.9 | 0.1929 | | 44 | 86 | 52 | 4.9 |
| A1222-NO10 | 4.915 | 0.1935 | No. 10 | 44 | 86 | 52 | 4.915 |
| A1222-NO9 | 4.978 | 0.1960 | No. 09 | 44 | 86 | 52 | 4.978 |
| A1222-5 | 5 | 0.1969 | | 44 | 86 | 52 | 5 |
| A1222-NO8 | 5.055 | 0.1990 | No. 08 | 44 | 86 | 52 | 5.055 |
| A1222-5.1 | 5.1 | 0.2008 | | 44 | 86 | 52 | 5.1 |
| A1222-NO7 | 5.105 | 0.2010 | No. 07 | 44 | 86 | 52 | 5.105 |
| A1222-13/64IN | 5.159 | 0.2031 | 13/64" | 44 | 86 | 52 | 5.159 |
| A1222-NO6 | 5.182 | 0.2040 | No. 06 | 44 | 86 | 52 | 5.182 |
| A1222-5.2 | 5.2 | 0.2047 | | 44 | 86 | 52 | 5.2 |
| A1222-NO5 | 5.22 | 0.2055 | No. 05 | 44 | 86 | 52 | 5.22 |
| A1222-5.3 | 5.3 | 0.2087 | | 44 | 86 | 52 | 5.3 |
| A1222-NO4 | 5.309 | 0.2090 | No. 04 | 48 | 93 | 57 | 5.309 |
| A1222-5.4 | 5.4 | 0.2126 | | 48 | 93 | 57 | 5.4 |
| A1222-NO3 | 5.41 | 0.2130 | No. 03 | 48 | 93 | 57 | 5.41 |
| A1222-5.5 | 5.5 | 0.2165 | | 48 | 93 | 57 | 5.5 |
| A1222-7/32IN | 5.556 | 0.2187 | 7/32" | 48 | 93 | 57 | 5.556 |
| A1222-5.6 | 5.6 | 0.2205 | | 48 | 93 | 57 | 5.6 |
| A1222-NO2 | 5.613 | 0.2210 | No. 02 | 48 | 93 | 57 | 5.613 |
| A1222-5.7 | 5.7 | 0.2244 | | 48 | 93 | 57 | 5.7 |
| A1222-NO1 | 5.791 | 0.2280 | No. 01 | 48 | 93 | 57 | 5.791 |
| A1222-5.8 | 5.8 | 0.2283 | | 48 | 93 | 57 | 5.8 |
| A1222-5.9 | 5.9 | 0.2323 | | 48 | 93 | 57 | 5.9 |
| A1222-LET.A | 5.944 | 0.2340 | Let. A | 48 | 93 | 57 | 5.944 |
| A1222-15/64IN | 5.953 | 0.2344 | 15/64" | 48 | 93 | 57 | 5.953 |
| A1222-6 | 6 | 0.2362 | | 48 | 93 | 57 | 6 |
| A1222-LET.B | 6.045 | 0.2380 | Let. B | 52 | 101 | 63 | 6.045 |
| A1222-6.1 | 6.1 | 0.2402 | | 52 | 101 | 63 | 6.1 |
| A1222-LET.C | 6.147 | 0.2420 | Let. C | 52 | 101 | 63 | 6.147 |
| A1222-6.2 | 6.2 | 0.2441 | | 52 | 101 | 63 | 6.2 |
| A1222-LET.D | 6.248 | 0.2460 | Let. D | 52 | 101 | 63 | 6.248 |

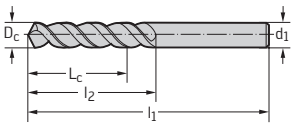
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1222-6.3 | 6.3 | 0.2480 | | 52 | 101 | 63 | 6.3 |
| A1222-1/4IN | 6.35 | 0.2500 | 1/4" | 52 | 101 | 63 | 6.35 |
| A1222-6.4 | 6.4 | 0.2520 | | 52 | 101 | 63 | 6.4 |
| A1222-6.5 | 6.5 | 0.2559 | | 52 | 101 | 63 | 6.5 |
| A1222-LET.F | 6.528 | 0.2570 | Let. F | 52 | 101 | 63 | 6.528 |
| A1222-6.6 | 6.6 | 0.2598 | | 52 | 101 | 63 | 6.6 |
| A1222-LET.G | 6.629 | 0.2610 | Let. G | 52 | 101 | 63 | 6.629 |
| A1222-6.7 | 6.7 | 0.2638 | | 52 | 101 | 63 | 6.7 |
| A1222-17/64IN | 6.747 | 0.2656 | 17/64" | 57 | 109 | 69 | 6.747 |
| A1222-LET.H | 6.756 | 0.2660 | Let. H | 57 | 109 | 69 | 6.756 |
| A1222-6.8 | 6.8 | 0.2677 | | 57 | 109 | 69 | 6.8 |
| A1222-6.9 | 6.9 | 0.2717 | | 57 | 109 | 69 | 6.9 |
| A1222-LET.I | 6.909 | 0.2720 | Let. I | 57 | 109 | 69 | 6.909 |
| A1222-7 | 7 | 0.2756 | | 57 | 109 | 69 | 7 |
| A1222-LET.J | 7.036 | 0.2770 | Let. J | 57 | 109 | 69 | 7.036 |
| A1222-7.1 | 7.1 | 0.2795 | | 57 | 109 | 69 | 7.1 |
| A1222-LET.K | 7.137 | 0.2810 | Let. K | 57 | 109 | 69 | 7.137 |
| A1222-9/32IN | 7.144 | 0.2813 | 9/32" | 57 | 109 | 69 | 7.144 |
| A1222-7.2 | 7.2 | 0.2835 | | 57 | 109 | 69 | 7.2 |
| A1222-7.3 | 7.3 | 0.2874 | | 57 | 109 | 69 | 7.3 |
| A1222-LET.L | 7.366 | 0.2900 | Let. L | 57 | 109 | 69 | 7.366 |
| A1222-7.4 | 7.4 | 0.2913 | | 57 | 109 | 69 | 7.4 |
| A1222-LET.M | 7.493 | 0.2950 | Let. M | 57 | 109 | 69 | 7.493 |
| A1222-7.5 | 7.5 | 0.2953 | | 57 | 109 | 69 | 7.5 |
| A1222-19/64IN | 7.541 | 0.2969 | 19/64" | 62 | 117 | 75 | 7.541 |
| A1222-7.6 | 7.6 | 0.2992 | | 62 | 117 | 75 | 7.6 |
| A1222-LET.N | 7.671 | 0.3020 | Let. N | 62 | 117 | 75 | 7.671 |
| A1222-7.7 | 7.7 | 0.3031 | | 62 | 117 | 75 | 7.7 |
| A1222-7.8 | 7.8 | 0.3071 | | 62 | 117 | 75 | 7.8 |
| A1222-7.9 | 7.9 | 0.3110 | | 62 | 117 | 75 | 7.9 |
| A1222-5/16IN | 7.938 | 0.3125 | 5/16" | 62 | 117 | 75 | 7.938 |
| A1222-8 | 8 | 0.3150 | | 62 | 117 | 75 | 8 |
| A1222-LET.O | 8.026 | 0.3160 | Let. O | 62 | 117 | 75 | 8.026 |
| A1222-8.1 | 8.1 | 0.3189 | | 62 | 117 | 75 | 8.1 |
| A1222-8.2 | 8.2 | 0.3228 | | 62 | 117 | 75 | 8.2 |
| A1222-LET.P | 8.204 | 0.3230 | Let. P | 62 | 117 | 75 | 8.204 |
| A1222-8.3 | 8.3 | 0.3268 | | 62 | 117 | 75 | 8.3 |
| A1222-21/64IN | 8.334 | 0.3281 | 21/64" | 62 | 117 | 75 | 8.334 |
| A1222-8.4 | 8.4 | 0.3307 | | 62 | 117 | 75 | 8.4 |
| A1222-LET.Q | 8.433 | 0.3320 | Let. Q | 62 | 117 | 75 | 8.433 |
| A1222-8.5 | 8.5 | 0.3346 | | 62 | 117 | 75 | 8.5 |
| A1222-8.6 | 8.6 | 0.3386 | | 66 | 125 | 81 | 8.6 |
| A1222-LET.R | 8.611 | 0.3390 | Let. R | 66 | 125 | 81 | 8.611 |
| A1222-8.7 | 8.7 | 0.3425 | | 66 | 125 | 81 | 8.7 |
| A1222-11/32IN | 8.731 | 0.3437 | 11/32" | 66 | 125 | 81 | 8.731 |
| A1222-8.8 | 8.8 | 0.3465 | | 66 | 125 | 81 | 8.8 |
| A1222-LET.S | 8.839 | 0.3480 | Let. S | 66 | 125 | 81 | 8.839 |
| A1222-8.9 | 8.9 | 0.3504 | | 66 | 125 | 81 | 8.9 |

## Tool

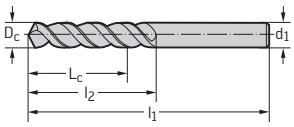



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1222-9 | 9 | 0.3543 | | 66 | 125 | 81 | 9 |
| A1222-LET.T | 9.093 | 0.3580 | Let. T | 66 | 125 | 81 | 9.093 |
| A1222-9.1 | 9.1 | 0.3583 | | 66 | 125 | 81 | 9.1 |
| A1222-23/64IN | 9.128 | 0.3594 | 23/64" | 66 | 125 | 81 | 9.128 |
| A1222-9.2 | 9.2 | 0.3622 | | 66 | 125 | 81 | 9.2 |
| A1222-9.3 | 9.3 | 0.3661 | | 66 | 125 | 81 | 9.3 |
| A1222-LET.U | 9.347 | 0.3680 | Let. U | 66 | 125 | 81 | 9.347 |
| A1222-9.4 | 9.4 | 0.3701 | | 66 | 125 | 81 | 9.4 |
| A1222-9.5 | 9.5 | 0.3740 | | 66 | 125 | 81 | 9.5 |
| A1222-3/8IN | 9.525 | 0.3750 | 3/8" | 71 | 133 | 87 | 9.525 |
| A1222-LET.V | 9.576 | 0.3770 | Let. V | 71 | 133 | 87 | 9.576 |
| A1222-9.6 | 9.6 | 0.3780 | | 71 | 133 | 87 | 9.6 |
| A1222-9.7 | 9.7 | 0.3819 | | 71 | 133 | 87 | 9.7 |
| A1222-9.8 | 9.8 | 0.3858 | | 71 | 133 | 87 | 9.8 |
| A1222-LET.W | 9.804 | 0.3860 | Let. W | 71 | 133 | 87 | 9.804 |
| A1222-9.9 | 9.9 | 0.3898 | | 71 | 133 | 87 | 9.9 |
| A1222-25/64IN | 9.922 | 0.3906 | 25/64" | 71 | 133 | 87 | 9.922 |
| A1222-10 | 10 | 0.3937 | | 71 | 133 | 87 | 10 |
| A1222-LET.X | 10.084 | 0.3970 | Let. X | 71 | 133 | 87 | 10.084 |
| A1222-10.2 | 10.2 | 0.4016 | | 71 | 133 | 87 | 10.2 |
| A1222-LET.Y | 10.262 | 0.4040 | Let. Y | 71 | 133 | 87 | 10.262 |
| A1222-13/32IN | 10.319 | 0.4063 | 13/32" | 71 | 133 | 87 | 10.319 |
| A1222-LET.Z | 10.49 | 0.4130 | Let. Z | 71 | 133 | 87 | 10.49 |
| A1222-10.5 | 10.5 | 0.4134 | | 71 | 133 | 87 | 10.5 |
| A1222-27/64IN | 10.716 | 0.4219 | 27/64" | 76 | 142 | 94 | 10.716 |
| A1222-10.8 | 10.8 | 0.4252 | | 76 | 142 | 94 | 10.8 |
| A1222-11 | 11 | 0.4331 | | 76 | 142 | 94 | 11 |
| A1222-7/16IN | 11.113 | 0.4375 | 7/16" | 76 | 142 | 94 | 11.113 |
| A1222-11.2 | 11.2 | 0.4409 | | 76 | 142 | 94 | 11.2 |
| A1222-11.5 | 11.5 | 0.4528 | | 76 | 142 | 94 | 11.5 |
| A1222-29/64IN | 11.509 | 0.4531 | 29/64" | 76 | 142 | 94 | 11.509 |
| A1222-11.8 | 11.8 | 0.4646 | | 76 | 142 | 94 | 11.8 |
| A1222-15/32IN | 11.906 | 0.4687 | 15/32" | 87 | 151 | 101 | 11.906 |
| A1222-12 | 12 | 0.4724 | | 87 | 151 | 101 | 12 |
| A1222-31/64IN | 12.303 | 0.4844 | 31/64" | 87 | 151 | 101 | 12.303 |
| A1222-12.5 | 12.5 | 0.4921 | | 87 | 151 | 101 | 12.5 |
| A1222-1/2IN | 12.7 | 0.5000 | 1/2" | 87 | 151 | 101 | 12.7 |
| A1222-13 | 13 | 0.5118 | | 87 | 151 | 101 | 13 |
| A1222-33/64IN | 13.097 | 0.5156 | | 87 | 151 | 101 | 13.097 |
| A1222-13.1 | 13.1 | 0.5157 | | 87 | 151 | 101 | 13.1 |
| A1222-13.3 | 13.3 | 0.5236 | | 94 | 160 | 108 | 13.3 |
| A1222-17/32IN | 13.494 | 0.5313 | 17/32" | 94 | 160 | 108 | 13.494 |
| A1222-13.5 | 13.5 | 0.5315 | | 94 | 160 | 108 | 13.5 |
| A1222-35/64IN | 13.891 | 0.5469 | | 94 | 160 | 108 | 13.891 |
| A1222-14 | 14 | 0.5512 | | 94 | 160 | 108 | 14 |
| A1222-9/16IN | 14.288 | 0.5625 | 9/16" | 99 | 169 | 114 | 14.288 |
| A1222-14.5 | 14.5 | 0.5709 | | 99 | 169 | 114 | 14.5 |
| A1222-37/64IN | 14.684 | 0.5781 | 37/64" | 99 | 169 | 114 | 14.684 |

## Tool

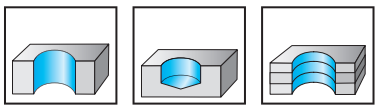



Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1222-15 | 15 | 0.5906 | | 99 | 169 | 114 | 15 |
| A1222-19/32IN | 15.081 | 0.5937 | 19/32" | 104 | 178 | 120 | 15.081 |
| A1222-15.1 | 15.1 | 0.5945 | | 104 | 178 | 120 | 15.1 |
| A1222-15.3 | 15.3 | 0.6024 | | 104 | 178 | 120 | 15.3 |
| A1222-39/64IN | 15.478 | 0.6094 | 39/64" | 104 | 178 | 120 | 15.478 |
| A1222-15.5 | 15.5 | 0.6102 | | 104 | 178 | 120 | 15.5 |
| A1222-5/8IN | 15.875 | 0.6250 | 5/8" | 104 | 178 | 120 | 15.875 |
| A1222-16 | 16 | 0.6299 | | 104 | 178 | 120 | 16 |

# HSS twist drills
# A1211 / A1211TIN


– Available as a set
– Type N

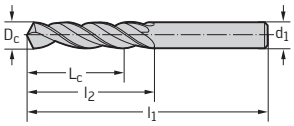


~8×$D_c$ | DIN 338 | 118°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ● | ● | | ● |
| TIN | ●● | ● | ●● | ● | ● | | ● |

B1

## Tool




Cylindrical shank

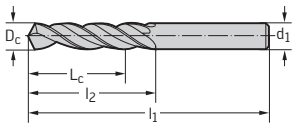
| Designation | $D_c$ mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-0.2 | 0.2 | 0.0079 | | 2.1 | 19 | 2.5 | 0.2 |
| A1211-0.22 | 0.22 | 0.0087 | | 2.1 | 19 | 2.5 | 0.22 |
| A1211-0.23 | 0.23 | 0.0091 | | 2.1 | 19 | 2.5 | 0.23 |
| A1211-0.25 | 0.25 | 0.0098 | | 2.5 | 19 | 3 | 0.25 |
| A1211-0.27 | 0.27 | 0.0106 | | 2.5 | 19 | 3 | 0.27 |
| A1211-0.28 | 0.28 | 0.0110 | | 2.5 | 19 | 3 | 0.28 |
| A1211-0.29 | 0.29 | 0.0114 | | 2.5 | 19 | 3 | 0.29 |
| A1211-0.3 | 0.3 | 0.0118 | | 2.5 | 19 | 3 | 0.3 |
| A1211-0.31 | 0.31 | 0.0122 | | 3.4 | 19 | 4 | 0.31 |
| A1211-NO82 | 0.318 | 0.0125 | | 3.4 | 19 | 4 | 0.318 |
| A1211-0.32 | 0.32 | 0.0126 | | 3.4 | 19 | 4 | 0.32 |
| A1211-0.33 | 0.33 | 0.0130 | | 3.4 | 19 | 4 | 0.33 |
| A1211-0.34 | 0.34 | 0.0134 | | 3.4 | 19 | 4 | 0.34 |
| A1211-NO80 | 0.343 | 0.0135 | | 3.4 | 19 | 4 | 0.343 |
| A1211-0.35 | 0.35 | 0.0138 | | 3.4 | 19 | 4 | 0.35 |
| A1211-NO79 | 0.368 | 0.0145 | | 3.4 | 19 | 4 | 0.368 |
| A1211-0.38 | 0.38 | 0.0150 | | 3.4 | 19 | 4 | 0.38 |
| A1211-1/64IN | 0.397 | 0.0156 | | 4.2 | 20 | 5 | 0.397 |
| A1211-0.4 | 0.4 | 0.0157 | | 4.2 | 20 | 5 | 0.4 |
| A1211-NO78 | 0.406 | 0.0160 | | 4.2 | 20 | 5 | 0.406 |
| A1211-0.42 | 0.42 | 0.0165 | | 4.2 | 20 | 5 | 0.42 |
| A1211-0.43 | 0.43 | 0.0169 | | 4.2 | 20 | 5 | 0.43 |
| A1211-0.45 | 0.45 | 0.0177 | | 4.2 | 20 | 5 | 0.45 |
| A1211-NO77 | 0.457 | 0.0180 | | 4.2 | 20 | 5 | 0.457 |
| A1211-0.47 | 0.47 | 0.0185 | | 4.2 | 20 | 5 | 0.47 |
| A1211-0.48 | 0.48 | 0.0189 | | 4.2 | 20 | 5 | 0.48 |
| A1211-0.49 | 0.49 | 0.0193 | | 5.2 | 22 | 6 | 0.49 |
| A1211-0.5 | 0.5 | 0.0197 | | 5.2 | 22 | 6 | 0.5 |
| A1211-NO76 | 0.508 | 0.0200 | No.76 | 5.2 | 22 | 6 | 0.508 |
| A1211-0.51 | 0.51 | 0.0201 | | 5.2 | 22 | 6 | 0.51 |
| A1211-0.52 | 0.52 | 0.0205 | | 5.2 | 22 | 6 | 0.52 |
| A1211-0.53 | 0.53 | 0.0209 | | 5.2 | 22 | 6 | 0.53 |
| A1211-NO75 | 0.533 | 0.0210 | | 6.1 | 24 | 7 | 0.533 |
| A1211-0.54 | 0.54 | 0.0213 | | 6.1 | 24 | 7 | 0.54 |
| A1211-0.55 | 0.55 | 0.0217 | | 6.1 | 24 | 7 | 0.55 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

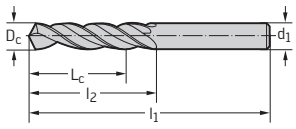
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-0.57 | 0.57 | 0.0224 | | 6.1 | 24 | 7 | 0.57 |
| A1211-NO74 | 0.572 | 0.0225 | | 6.1 | 24 | 7 | 0.572 |
| A1211-0.58 | 0.58 | 0.0228 | | 6.1 | 24 | 7 | 0.58 |
| A1211-0.59 | 0.59 | 0.0232 | | 6.1 | 24 | 7 | 0.59 |
| A1211-0.6 | 0.6 | 0.0236 | | 6.1 | 24 | 7 | 0.6 |
| A1211-NO73 | 0.61 | 0.0240 | | 6.9 | 26 | 8 | 0.61 |
| A1211-0.62 | 0.62 | 0.0244 | | 6.9 | 26 | 8 | 0.62 |
| A1211-0.63 | 0.63 | 0.0248 | | 6.9 | 26 | 8 | 0.63 |
| A1211-NO72 | 0.635 | 0.0250 | No.72 | 6.9 | 26 | 8 | 0.635 |
| A1211-0.65 | 0.65 | 0.0256 | | 6.9 | 26 | 8 | 0.65 |
| A1211-NO71 | 0.66 | 0.0260 | | 6.9 | 26 | 8 | 0.66 |
| A1211-0.67 | 0.67 | 0.0264 | | 6.9 | 26 | 8 | 0.67 |
| A1211-0.68 | 0.68 | 0.0268 | | 7.8 | 28 | 9 | 0.68 |
| A1211-0.7 | 0.7 | 0.0276 | | 7.8 | 28 | 9 | 0.7 |
| A1211-NO70 | 0.711 | 0.0280 | | 7.8 | 28 | 9 | 0.711 |
| A1211-0.72 | 0.72 | 0.0283 | | 7.8 | 28 | 9 | 0.72 |
| A1211-0.73 | 0.73 | 0.0287 | | 7.8 | 28 | 9 | 0.73 |
| A1211-NO69 | 0.742 | 0.0292 | | 7.8 | 28 | 9 | 0.742 |
| A1211-0.75 | 0.75 | 0.0295 | | 7.8 | 28 | 9 | 0.75 |
| A1211-0.76 | 0.76 | 0.0299 | | 8.7 | 30 | 10 | 0.76 |
| A1211-0.78 | 0.78 | 0.0307 | | 8.7 | 30 | 10 | 0.78 |
| A1211-NO68 | 0.787 | 0.0310 | | 8.7 | 30 | 10 | 0.787 |
| A1211-1/32IN | 0.794 | 0.0313 | 1/32" | 8.7 | 30 | 10 | 0.794 |
| A1211-0.8 | 0.8 | 0.0315 | | 8.7 | 30 | 10 | 0.8 |
| A1211-0.81 | 0.81 | 0.0319 | | 8.7 | 30 | 10 | 0.81 |
| A1211-NO67 | 0.813 | 0.0320 | | 8.7 | 30 | 10 | 0.813 |
| A1211-0.82 | 0.82 | 0.0323 | | 8.7 | 30 | 10 | 0.82 |
| A1211-0.83 | 0.83 | 0.0327 | | 8.7 | 30 | 10 | 0.83 |
| A1211-NO66 | 0.838 | 0.0330 | | 8.7 | 30 | 10 | 0.838 |
| A1211-0.85 | 0.85 | 0.0335 | | 8.7 | 30 | 10 | 0.85 |
| A1211-0.87 | 0.87 | 0.0343 | | 9.5 | 32 | 11 | 0.87 |
| A1211-0.88 | 0.88 | 0.0346 | | 9.5 | 32 | 11 | 0.88 |
| A1211-NO65 | 0.889 | 0.0350 | No.65 | 9.5 | 32 | 11 | 0.889 |
| A1211-0.9 | 0.9 | 0.0354 | | 9.5 | 32 | 11 | 0.9 |
| A1211-0.91 | 0.91 | 0.0358 | | 9.5 | 32 | 11 | 0.91 |
| A1211-NO64 | 0.914 | 0.0360 | | 9.5 | 32 | 11 | 0.914 |
| A1211-0.92 | 0.92 | 0.0362 | | 9.5 | 32 | 11 | 0.92 |
| A1211-NO63 | 0.94 | 0.0370 | | 9.5 | 32 | 11 | 0.94 |
| A1211-0.95 | 0.95 | 0.0374 | | 9.5 | 32 | 11 | 0.95 |
| A1211-0.96 | 0.96 | 0.0378 | | 10 | 34 | 12 | 0.96 |
| A1211-NO62 | 0.965 | 0.0380 | | 10 | 34 | 12 | 0.965 |
| A1211-0.97 | 0.97 | 0.0382 | | 10 | 34 | 12 | 0.97 |
| A1211-0.98 | 0.98 | 0.0386 | | 10 | 34 | 12 | 0.98 |
| A1211-0.99 | 0.99 | 0.0390 | | 10 | 34 | 12 | 0.99 |
| A1211-NO61 | 0.991 | 0.0390 | | 10 | 34 | 12 | 0.991 |
| A1211-1 | 1 | 0.0394 | | 10 | 34 | 12 | 1 |
| A1211-1.01 | 1.01 | 0.0398 | | 10 | 34 | 12 | 1.01 |
| A1211-NO60 | 1.016 | 0.0400 | No. 60 | 10 | 34 | 12 | 1.016 |

## Tool

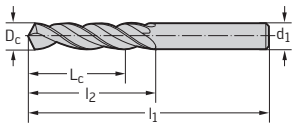



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-1.02 | 1.02 | 0.0402 | | 10 | 34 | 12 | 1.02 |
| A1211-1.03 | 1.03 | 0.0406 | | 10 | 34 | 12 | 1.03 |
| A1211-1.04 | 1.04 | 0.0409 | | 10 | 34 | 12 | 1.04 |
| A1211-NO59 | 1.041 | 0.0410 | No. 59 | 10 | 34 | 12 | 1.041 |
| A1211-1.05 | 1.05 | 0.0413 | | 10 | 34 | 12 | 1.05 |
| A1211-NO58 | 1.067 | 0.0420 | No. 58 | 12 | 36 | 14 | 1.067 |
| A1211-NO57 | 1.092 | 0.0430 | No. 57 | 12 | 36 | 14 | 1.092 |
| A1211-1.1 | 1.1 | 0.0433 | | 12 | 36 | 14 | 1.1 |
| A1211-1.12 | 1.12 | 0.0441 | | 12 | 36 | 14 | 1.12 |
| A1211-1.13 | 1.13 | 0.0445 | | 12 | 36 | 14 | 1.13 |
| A1211-1.15 | 1.15 | 0.0453 | | 12 | 36 | 14 | 1.15 |
| A1211-1.18 | 1.18 | 0.0465 | | 12 | 36 | 14 | 1.18 |
| A1211-NO56 | 1.181 | 0.0465 | No. 56 | 14 | 38 | 16 | 1.181 |
| A1211-3/64IN | 1.191 | 0.0469 | 3/64" | 14 | 38 | 16 | 1.191 |
| A1211-1.2 | 1.2 | 0.0472 | | 14 | 38 | 16 | 1.2 |
| A1211-1.21 | 1.21 | 0.0476 | | 14 | 38 | 16 | 1.21 |
| A1211-1.22 | 1.22 | 0.0480 | | 14 | 38 | 16 | 1.22 |
| A1211-1.23 | 1.23 | 0.0484 | | 14 | 38 | 16 | 1.23 |
| A1211-1.24 | 1.24 | 0.0488 | | 14 | 38 | 16 | 1.24 |
| A1211-1.25 | 1.25 | 0.0492 | | 14 | 38 | 16 | 1.25 |
| A1211-1.27 | 1.27 | 0.0500 | | 14 | 38 | 16 | 1.27 |
| A1211-1.28 | 1.28 | 0.0504 | | 14 | 38 | 16 | 1.28 |
| A1211-1.3 | 1.3 | 0.0512 | | 14 | 38 | 16 | 1.3 |
| A1211-NO55 | 1.321 | 0.0520 | No. 55 | 15 | 40 | 18 | 1.321 |
| A1211-1.33 | 1.33 | 0.0524 | | 15 | 40 | 18 | 1.33 |
| A1211-1.35 | 1.35 | 0.0531 | | 15 | 40 | 18 | 1.35 |
| A1211-1.36 | 1.36 | 0.0535 | | 15 | 40 | 18 | 1.36 |
| A1211-1.37 | 1.37 | 0.0539 | | 15 | 40 | 18 | 1.37 |
| A1211-NO54 | 1.397 | 0.0550 | No. 54 | 15 | 40 | 18 | 1.397 |
| A1211-1.4 | 1.4 | 0.0551 | | 15 | 40 | 18 | 1.4 |
| A1211-1.42 | 1.42 | 0.0559 | | 15 | 40 | 18 | 1.42 |
| A1211-1.43 | 1.43 | 0.0563 | | 15 | 40 | 18 | 1.43 |
| A1211-1.45 | 1.45 | 0.0571 | | 15 | 40 | 18 | 1.45 |
| A1211-1.49 | 1.49 | 0.0587 | | 15 | 40 | 18 | 1.49 |
| A1211-1.5 | 1.5 | 0.0591 | | 15 | 40 | 18 | 1.5 |
| A1211-1.51 | 1.51 | 0.0594 | | 17 | 43 | 20 | 1.51 |
| A1211-NO53 | 1.511 | 0.0595 | No. 53 | 17 | 43 | 20 | 1.511 |
| A1211-1.52 | 1.52 | 0.0598 | | 17 | 43 | 20 | 1.52 |
| A1211-1.53 | 1.53 | 0.0602 | | 17 | 43 | 20 | 1.53 |
| A1211-1.55 | 1.55 | 0.0610 | | 17 | 43 | 20 | 1.55 |
| A1211-1.57 | 1.57 | 0.0618 | | 17 | 43 | 20 | 1.57 |
| A1211-1/16IN | 1.588 | 0.0625 | 1/16" | 17 | 43 | 20 | 1.588 |
| A1211-1.6 | 1.6 | 0.0630 | | 17 | 43 | 20 | 1.6 |
| A1211-NO52 | 1.613 | 0.0635 | No. 52 | 17 | 43 | 20 | 1.613 |
| A1211-1.63 | 1.63 | 0.0642 | | 17 | 43 | 20 | 1.63 |
| A1211-1.65 | 1.65 | 0.0650 | | 17 | 43 | 20 | 1.65 |
| A1211-1.7 | 1.7 | 0.0669 | | 17 | 43 | 20 | 1.7 |
| A1211-NO51 | 1.702 | 0.0670 | No. 51 | 19 | 46 | 22 | 1.702 |

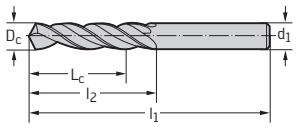
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-1.75 | 1.75 | 0.0689 | | 19 | 46 | 22 | 1.75 |
| A1211-NO50 | 1.778 | 0.0700 | No. 50 | 19 | 46 | 22 | 1.778 |
| A1211-1.8 | 1.8 | 0.0709 | | 19 | 46 | 22 | 1.8 |
| A1211-1.85 | 1.85 | 0.0728 | | 19 | 46 | 22 | 1.85 |
| A1211-NO49 | 1.854 | 0.0730 | No. 49 | 19 | 46 | 22 | 1.854 |
| A1211-1.9 | 1.9 | 0.0748 | | 19 | 46 | 22 | 1.9 |
| A1211-NO48 | 1.93 | 0.0760 | No. 48 | 20 | 49 | 24 | 1.93 |
| A1211-1.95 | 1.95 | 0.0768 | | 20 | 49 | 24 | 1.95 |
| A1211-5/64IN | 1.984 | 0.0781 | 5/64" | 20 | 49 | 24 | 1.984 |
| A1211-NO47 | 1.994 | 0.0785 | No. 47 | 20 | 49 | 24 | 1.994 |
| A1211-2 | 2 | 0.0787 | | 20 | 49 | 24 | 2 |
| A1211-2.05 | 2.05 | 0.0807 | | 20 | 49 | 24 | 2.05 |
| A1211-NO46 | 2.057 | 0.0810 | No. 46 | 20 | 49 | 24 | 2.057 |
| A1211-NO45 | 2.083 | 0.0820 | No. 45 | 20 | 49 | 24 | 2.083 |
| A1211-2.1 | 2.1 | 0.0827 | | 20 | 49 | 24 | 2.1 |
| A1211-2.15 | 2.15 | 0.0846 | | 23 | 53 | 27 | 2.15 |
| A1211-NO44 | 2.184 | 0.0860 | No. 44 | 23 | 53 | 27 | 2.184 |
| A1211-2.2 | 2.2 | 0.0866 | | 23 | 53 | 27 | 2.2 |
| A1211-2.25 | 2.25 | 0.0886 | | 23 | 53 | 27 | 2.25 |
| A1211-NO43 | 2.261 | 0.0890 | No. 43 | 23 | 53 | 27 | 2.261 |
| A1211-2.3 | 2.3 | 0.0906 | | 23 | 53 | 27 | 2.3 |
| A1211-2.35 | 2.35 | 0.0925 | | 23 | 53 | 27 | 2.35 |
| A1211-NO42 | 2.375 | 0.0935 | No. 42 | 26 | 57 | 30 | 2.375 |
| A1211-3/32IN | 2.381 | 0.0937 | 3/32" | 26 | 57 | 30 | 2.381 |
| A1211-2.4 | 2.4 | 0.0945 | | 26 | 57 | 30 | 2.4 |
| A1211-NO41 | 2.438 | 0.0960 | No. 41 | 26 | 57 | 30 | 2.438 |
| A1211-2.45 | 2.45 | 0.0965 | | 26 | 57 | 30 | 2.45 |
| A1211-NO40 | 2.489 | 0.0980 | No. 40 | 26 | 57 | 30 | 2.489 |
| A1211-2.5 | 2.5 | 0.0984 | | 26 | 57 | 30 | 2.5 |
| A1211-NO39 | 2.527 | 0.0995 | No. 39 | 26 | 57 | 30 | 2.527 |
| A1211-2.55 | 2.55 | 0.1004 | | 26 | 57 | 30 | 2.55 |
| A1211-NO38 | 2.578 | 0.1015 | No. 38 | 26 | 57 | 30 | 2.578 |
| A1211-2.6 | 2.6 | 0.1024 | | 26 | 57 | 30 | 2.6 |
| A1211-NO37 | 2.642 | 0.1040 | No. 37 | 26 | 57 | 30 | 2.642 |
| A1211-2.65 | 2.65 | 0.1043 | | 26 | 57 | 30 | 2.65 |
| A1211-2.7 | 2.7 | 0.1063 | | 28 | 61 | 33 | 2.7 |
| A1211-NO36 | 2.705 | 0.1065 | No. 36 | 28 | 61 | 33 | 2.705 |
| A1211-2.75 | 2.75 | 0.1083 | | 28 | 61 | 33 | 2.75 |
| A1211-7/64IN | 2.778 | 0.1094 | 7/64" | 28 | 61 | 33 | 2.778 |
| A1211-NO35 | 2.794 | 0.1100 | No. 35 | 28 | 61 | 33 | 2.794 |
| A1211-2.8 | 2.8 | 0.1102 | | 28 | 61 | 33 | 2.8 |
| A1211-NO34 | 2.819 | 0.1110 | No. 34 | 28 | 61 | 33 | 2.819 |
| A1211-2.85 | 2.85 | 0.1122 | | 28 | 61 | 33 | 2.85 |
| A1211-NO33 | 2.87 | 0.1130 | No. 33 | 28 | 61 | 33 | 2.87 |
| A1211-2.9 | 2.9 | 0.1142 | | 28 | 61 | 33 | 2.9 |
| A1211-NO32 | 2.946 | 0.1160 | No. 32 | 28 | 61 | 33 | 2.946 |
| A1211-2.95 | 2.95 | 0.1161 | | 28 | 61 | 33 | 2.95 |
| A1211-3 | 3 | 0.1181 | | 28 | 61 | 33 | 3 |

## Tool

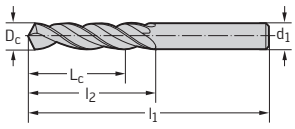



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-NO31 | 3.048 | 0.1200 | No. 31 | 30 | 65 | 36 | 3.048 |
| A1211-3.05 | 3.05 | 0.1201 | | 30 | 65 | 36 | 3.05 |
| A1211-3.1 | 3.1 | 0.1220 | | 30 | 65 | 36 | 3.1 |
| A1211-3.15 | 3.15 | 0.1240 | | 30 | 65 | 36 | 3.15 |
| A1211-1/8IN | 3.175 | 0.1250 | 1/8" | 30 | 65 | 36 | 3.175 |
| A1211-3.2 | 3.2 | 0.1260 | | 30 | 65 | 36 | 3.2 |
| A1211-3.25 | 3.25 | 0.1280 | | 30 | 65 | 36 | 3.25 |
| A1211-NO30 | 3.264 | 0.1285 | No. 30 | 30 | 65 | 36 | 3.264 |
| A1211-3.3 | 3.3 | 0.1299 | | 30 | 65 | 36 | 3.3 |
| A1211-3.35 | 3.35 | 0.1319 | | 30 | 65 | 36 | 3.35 |
| A1211-3.4 | 3.4 | 0.1339 | | 33 | 70 | 39 | 3.4 |
| A1211-3.45 | 3.45 | 0.1358 | | 33 | 70 | 39 | 3.45 |
| A1211-NO29 | 3.454 | 0.1360 | No. 29 | 33 | 70 | 39 | 3.454 |
| A1211-3.5 | 3.5 | 0.1378 | | 33 | 70 | 39 | 3.5 |
| A1211-3.55 | 3.55 | 0.1398 | | 33 | 70 | 39 | 3.55 |
| A1211-NO28 | 3.569 | 0.1405 | No. 28 | 33 | 70 | 39 | 3.569 |
| A1211-9/64IN | 3.572 | 0.1406 | 9/64" | 33 | 70 | 39 | 3.572 |
| A1211-3.6 | 3.6 | 0.1417 | | 33 | 70 | 39 | 3.6 |
| A1211-3.65 | 3.65 | 0.1437 | | 33 | 70 | 39 | 3.65 |
| A1211-NO27 | 3.658 | 0.1440 | No. 27 | 33 | 70 | 39 | 3.658 |
| A1211-3.7 | 3.7 | 0.1457 | | 33 | 70 | 39 | 3.7 |
| A1211-NO26 | 3.734 | 0.1470 | No. 26 | 33 | 70 | 39 | 3.734 |
| A1211-3.75 | 3.75 | 0.1476 | | 33 | 70 | 39 | 3.75 |
| A1211-NO25 | 3.797 | 0.1495 | No. 25 | 36 | 75 | 43 | 3.797 |
| A1211-3.8 | 3.8 | 0.1496 | | 36 | 75 | 43 | 3.8 |
| A1211-NO24 | 3.861 | 0.1520 | No. 24 | 36 | 75 | 43 | 3.861 |
| A1211-3.9 | 3.9 | 0.1535 | | 36 | 75 | 43 | 3.9 |
| A1211-NO23 | 3.912 | 0.1540 | No. 23 | 36 | 75 | 43 | 3.912 |
| A1211-3.95 | 3.95 | 0.1555 | | 36 | 75 | 43 | 3.95 |
| A1211-5/32IN | 3.969 | 0.1563 | 5/32" | 36 | 75 | 43 | 3.969 |
| A1211-NO22 | 3.988 | 0.1570 | No. 22 | 36 | 75 | 43 | 3.988 |
| A1211-4 | 4 | 0.1575 | | 36 | 75 | 43 | 4 |
| A1211-NO21 | 4.039 | 0.1590 | No. 21 | 36 | 75 | 43 | 4.039 |
| A1211-4.05 | 4.05 | 0.1594 | | 36 | 75 | 43 | 4.05 |
| A1211-NO20 | 4.089 | 0.1610 | No. 20 | 36 | 75 | 43 | 4.089 |
| A1211-4.1 | 4.1 | 0.1614 | | 36 | 75 | 43 | 4.1 |
| A1211-4.15 | 4.15 | 0.1634 | | 36 | 75 | 43 | 4.15 |
| A1211-4.2 | 4.2 | 0.1654 | | 36 | 75 | 43 | 4.2 |
| A1211-NO19 | 4.216 | 0.1660 | No. 19 | 36 | 75 | 43 | 4.216 |
| A1211-4.25 | 4.25 | 0.1673 | | 36 | 75 | 43 | 4.25 |
| A1211-4.3 | 4.3 | 0.1693 | | 39 | 80 | 47 | 4.3 |
| A1211-NO18 | 4.305 | 0.1695 | No. 18 | 39 | 80 | 47 | 4.305 |
| A1211-4.35 | 4.35 | 0.1713 | | 39 | 80 | 47 | 4.35 |
| A1211-11/64IN | 4.366 | 0.1719 | 11/64" | 39 | 80 | 47 | 4.366 |
| A1211-NO17 | 4.394 | 0.1730 | No. 17 | 39 | 80 | 47 | 4.394 |
| A1211-4.4 | 4.4 | 0.1732 | | 39 | 80 | 47 | 4.4 |
| A1211-4.45 | 4.45 | 0.1752 | | 39 | 80 | 47 | 4.45 |
| A1211-NO16 | 4.496 | 0.1770 | No. 16 | 39 | 80 | 47 | 4.496 |

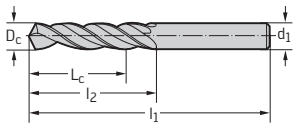
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-4.5 | 4.5 | 0.1772 | | 39 | 80 | 47 | 4.5 |
| A1211-4.55 | 4.55 | 0.1791 | | 39 | 80 | 47 | 4.55 |
| A1211-NO15 | 4.572 | 0.1800 | No. 15 | 39 | 80 | 47 | 4.572 |
| A1211-4.6 | 4.6 | 0.1811 | | 39 | 80 | 47 | 4.6 |
| A1211-NO14 | 4.623 | 0.1820 | No. 14 | 39 | 80 | 47 | 4.623 |
| A1211-4.65 | 4.65 | 0.1831 | | 39 | 80 | 47 | 4.65 |
| A1211-NO13 | 4.699 | 0.1850 | No. 13 | 39 | 80 | 47 | 4.699 |
| A1211-4.7 | 4.7 | 0.1850 | | 39 | 80 | 47 | 4.7 |
| A1211-4.75 | 4.75 | 0.1870 | | 39 | 80 | 47 | 4.75 |
| A1211-3/16IN | 4.763 | 0.1875 | 3/16" | 44 | 86 | 52 | 4.763 |
| A1211-4.8 | 4.8 | 0.1890 | | 44 | 86 | 52 | 4.8 |
| A1211-NO12 | 4.801 | 0.1890 | No. 12 | 44 | 86 | 52 | 4.801 |
| A1211-4.85 | 4.85 | 0.1909 | | 44 | 86 | 52 | 4.85 |
| A1211-NO11 | 4.851 | 0.1910 | No. 11 | 44 | 86 | 52 | 4.851 |
| A1211-4.9 | 4.9 | 0.1929 | | 44 | 86 | 52 | 4.9 |
| A1211-NO10 | 4.915 | 0.1935 | No. 10 | 44 | 86 | 52 | 4.915 |
| A1211-4.95 | 4.95 | 0.1949 | | 44 | 86 | 52 | 4.95 |
| A1211-NO9 | 4.978 | 0.1960 | No. 09 | 44 | 86 | 52 | 4.978 |
| A1211-5 | 5 | 0.1969 | | 44 | 86 | 52 | 5 |
| A1211-5.05 | 5.05 | 0.1988 | | 44 | 86 | 52 | 5.05 |
| A1211-NO8 | 5.055 | 0.1990 | No. 08 | 44 | 86 | 52 | 5.055 |
| A1211-5.1 | 5.1 | 0.2008 | | 44 | 86 | 52 | 5.1 |
| A1211-NO7 | 5.105 | 0.2010 | No. 07 | 44 | 86 | 52 | 5.105 |
| A1211-5.15 | 5.15 | 0.2028 | | 44 | 86 | 52 | 5.15 |
| A1211-13/64IN | 5.159 | 0.2031 | 13/64" | 44 | 86 | 52 | 5.159 |
| A1211-NO6 | 5.182 | 0.2040 | No. 06 | 44 | 86 | 52 | 5.182 |
| A1211-5.2 | 5.2 | 0.2047 | | 44 | 86 | 52 | 5.2 |
| A1211-NO5 | 5.22 | 0.2055 | No. 05 | 44 | 86 | 52 | 5.22 |
| A1211-5.25 | 5.25 | 0.2067 | | 44 | 86 | 52 | 5.25 |
| A1211-5.3 | 5.3 | 0.2087 | | 44 | 86 | 52 | 5.3 |
| A1211-NO4 | 5.309 | 0.2090 | No. 04 | 48 | 93 | 57 | 5.309 |
| A1211-5.4 | 5.4 | 0.2126 | | 48 | 93 | 57 | 5.4 |
| A1211-NO3 | 5.41 | 0.2130 | No. 03 | 48 | 93 | 57 | 5.41 |
| A1211-5.5 | 5.5 | 0.2165 | | 48 | 93 | 57 | 5.5 |
| A1211-5.55 | 5.55 | 0.2185 | | 48 | 93 | 57 | 5.55 |
| A1211-7/32IN | 5.556 | 0.2187 | 7/32" | 48 | 93 | 57 | 5.556 |
| A1211-5.6 | 5.6 | 0.2205 | | 48 | 93 | 57 | 5.6 |
| A1211-NO2 | 5.613 | 0.2210 | No. 02 | 48 | 93 | 57 | 5.613 |
| A1211-5.7 | 5.7 | 0.2244 | | 48 | 93 | 57 | 5.7 |
| A1211-5.75 | 5.75 | 0.2264 | | 48 | 93 | 57 | 5.75 |
| A1211-NO1 | 5.791 | 0.2280 | No. 01 | 48 | 93 | 57 | 5.791 |
| A1211-5.8 | 5.8 | 0.2283 | | 48 | 93 | 57 | 5.8 |
| A1211-5.9 | 5.9 | 0.2323 | | 48 | 93 | 57 | 5.9 |
| A1211-LET.A | 5.944 | 0.2340 | Let. A | 48 | 93 | 57 | 5.944 |
| A1211-5.95 | 5.95 | 0.2343 | | 48 | 93 | 57 | 5.95 |
| A1211-15/64IN | 5.953 | 0.2344 | 15/64" | 48 | 93 | 57 | 5.953 |
| A1211-6 | 6 | 0.2362 | | 48 | 93 | 57 | 6 |
| A1211-LET.B | 6.045 | 0.2380 | Let. B | 52 | 101 | 63 | 6.045 |

## Tool

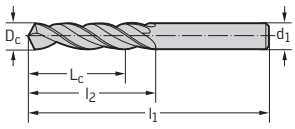



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-6.05 | 6.05 | 0.2382 | | 52 | 101 | 63 | 6.05 |
| A1211-6.1 | 6.1 | 0.2402 | | 52 | 101 | 63 | 6.1 |
| A1211-LET.C | 6.147 | 0.2420 | Let. C | 52 | 101 | 63 | 6.147 |
| A1211-6.15 | 6.15 | 0.2421 | | 52 | 101 | 63 | 6.15 |
| A1211-6.2 | 6.2 | 0.2441 | | 52 | 101 | 63 | 6.2 |
| A1211-LET.D | 6.248 | 0.2460 | Let. D | 52 | 101 | 63 | 6.248 |
| A1211-6.25 | 6.25 | 0.2461 | | 52 | 101 | 63 | 6.25 |
| A1211-6.3 | 6.3 | 0.2480 | | 52 | 101 | 63 | 6.3 |
| A1211-1/4IN | 6.35 | 0.2500 | 1/4" | 52 | 101 | 63 | 6.35 |
| A1211-6.4 | 6.4 | 0.2520 | | 52 | 101 | 63 | 6.4 |
| A1211-6.45 | 6.45 | 0.2539 | | 52 | 101 | 63 | 6.45 |
| A1211-6.5 | 6.5 | 0.2559 | | 52 | 101 | 63 | 6.5 |
| A1211-LET.F | 6.528 | 0.2570 | Let. F | 52 | 101 | 63 | 6.528 |
| A1211-6.55 | 6.55 | 0.2579 | | 52 | 101 | 63 | 6.55 |
| A1211-6.6 | 6.6 | 0.2598 | | 52 | 101 | 63 | 6.6 |
| A1211-LET.G | 6.629 | 0.2610 | Let. G | 52 | 101 | 63 | 6.629 |
| A1211-6.65 | 6.65 | 0.2618 | | 52 | 101 | 63 | 6.65 |
| A1211-6.7 | 6.7 | 0.2638 | | 52 | 101 | 63 | 6.7 |
| A1211-17/64IN | 6.747 | 0.2656 | 17/64" | 57 | 109 | 69 | 6.747 |
| A1211-6.75 | 6.75 | 0.2657 | | 57 | 109 | 69 | 6.75 |
| A1211-LET.H | 6.756 | 0.2660 | Let. H | 57 | 109 | 69 | 6.756 |
| A1211-6.8 | 6.8 | 0.2677 | | 57 | 109 | 69 | 6.8 |
| A1211-6.9 | 6.9 | 0.2717 | | 57 | 109 | 69 | 6.9 |
| A1211-LET.I | 6.909 | 0.2720 | Let. I | 57 | 109 | 69 | 6.909 |
| A1211-7 | 7 | 0.2756 | | 57 | 109 | 69 | 7 |
| A1211-LET.J | 7.036 | 0.2770 | Let. J | 57 | 109 | 69 | 7.036 |
| A1211-7.05 | 7.05 | 0.2776 | | 57 | 109 | 69 | 7.05 |
| A1211-7.1 | 7.1 | 0.2795 | | 57 | 109 | 69 | 7.1 |
| A1211-LET.K | 7.137 | 0.2810 | Let. K | 57 | 109 | 69 | 7.137 |
| A1211-9/32IN | 7.144 | 0.2813 | 9/32" | 57 | 109 | 69 | 7.144 |
| A1211-7.2 | 7.2 | 0.2835 | | 57 | 109 | 69 | 7.2 |
| A1211-7.25 | 7.25 | 0.2854 | | 57 | 109 | 69 | 7.25 |
| A1211-7.3 | 7.3 | 0.2874 | | 57 | 109 | 69 | 7.3 |
| A1211-LET.L | 7.366 | 0.2900 | Let. L | 57 | 109 | 69 | 7.366 |
| A1211-7.4 | 7.4 | 0.2913 | | 57 | 109 | 69 | 7.4 |
| A1211-LET.M | 7.493 | 0.2950 | Let. M | 57 | 109 | 69 | 7.493 |
| A1211-7.5 | 7.5 | 0.2953 | | 57 | 109 | 69 | 7.5 |
| A1211-19/64IN | 7.541 | 0.2969 | 19/64" | 62 | 117 | 75 | 7.541 |
| A1211-7.6 | 7.6 | 0.2992 | | 62 | 117 | 75 | 7.6 |
| A1211-LET.N | 7.671 | 0.3020 | Let. N | 62 | 117 | 75 | 7.671 |
| A1211-7.7 | 7.7 | 0.3031 | | 62 | 117 | 75 | 7.7 |
| A1211-7.75 | 7.75 | 0.3051 | | 62 | 117 | 75 | 7.75 |
| A1211-7.8 | 7.8 | 0.3071 | | 62 | 117 | 75 | 7.8 |
| A1211-7.9 | 7.9 | 0.3110 | | 62 | 117 | 75 | 7.9 |
| A1211-5/16IN | 7.938 | 0.3125 | 5/16" | 62 | 117 | 75 | 7.938 |
| A1211-8 | 8 | 0.3150 | | 62 | 117 | 75 | 8 |
| A1211-LET.O | 8.026 | 0.3160 | Let. O | 62 | 117 | 75 | 8.026 |
| A1211-8.05 | 8.05 | 0.3169 | | 62 | 117 | 75 | 8.05 |

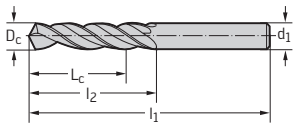
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-8.1 | 8.1 | 0.3189 | | 62 | 117 | 75 | 8.1 |
| A1211-8.2 | 8.2 | 0.3228 | | 62 | 117 | 75 | 8.2 |
| A1211-LET.P | 8.204 | 0.3230 | Let. P | 62 | 117 | 75 | 8.204 |
| A1211-8.25 | 8.25 | 0.3248 | | 62 | 117 | 75 | 8.25 |
| A1211-8.3 | 8.3 | 0.3268 | | 62 | 117 | 75 | 8.3 |
| A1211-21/64IN | 8.334 | 0.3281 | 21/64" | 62 | 117 | 75 | 8.334 |
| A1211-8.4 | 8.4 | 0.3307 | | 62 | 117 | 75 | 8.4 |
| A1211-LET.Q | 8.433 | 0.3320 | Let. Q | 62 | 117 | 75 | 8.433 |
| A1211-8.5 | 8.5 | 0.3346 | | 62 | 117 | 75 | 8.5 |
| A1211-8.6 | 8.6 | 0.3386 | | 66 | 125 | 81 | 8.6 |
| A1211-LET.R | 8.611 | 0.3390 | Let. R | 66 | 125 | 81 | 8.611 |
| A1211-8.7 | 8.7 | 0.3425 | | 66 | 125 | 81 | 8.7 |
| A1211-11/32IN | 8.731 | 0.3437 | 11/32" | 66 | 125 | 81 | 8.731 |
| A1211-8.75 | 8.75 | 0.3445 | | 66 | 125 | 81 | 8.75 |
| A1211-8.8 | 8.8 | 0.3465 | | 66 | 125 | 81 | 8.8 |
| A1211-8.9 | 8.9 | 0.3504 | | 66 | 125 | 81 | 8.9 |
| A1211-9 | 9 | 0.3543 | | 66 | 125 | 81 | 9 |
| A1211-LET.T | 9.093 | 0.3580 | Let. T | 66 | 125 | 81 | 9.093 |
| A1211-9.1 | 9.1 | 0.3583 | | 66 | 125 | 81 | 9.1 |
| A1211-23/64IN | 9.128 | 0.3594 | 23/64" | 66 | 125 | 81 | 9.128 |
| A1211-9.2 | 9.2 | 0.3622 | | 66 | 125 | 81 | 9.2 |
| A1211-9.25 | 9.25 | 0.3642 | | 66 | 125 | 81 | 9.25 |
| A1211-9.3 | 9.3 | 0.3661 | | 66 | 125 | 81 | 9.3 |
| A1211-LET.U | 9.347 | 0.3680 | Let. U | 66 | 125 | 81 | 9.347 |
| A1211-9.4 | 9.4 | 0.3701 | | 66 | 125 | 81 | 9.4 |
| A1211-9.5 | 9.5 | 0.3740 | | 66 | 125 | 81 | 9.5 |
| A1211-3/8IN | 9.525 | 0.3750 | 3/8" | 71 | 133 | 87 | 9.525 |
| A1211-9.6 | 9.6 | 0.3780 | | 71 | 133 | 87 | 9.6 |
| A1211-9.7 | 9.7 | 0.3819 | | 71 | 133 | 87 | 9.7 |
| A1211-9.75 | 9.75 | 0.3839 | | 71 | 133 | 87 | 9.75 |
| A1211-9.8 | 9.8 | 0.3858 | | 71 | 133 | 87 | 9.8 |
| A1211-LET.W | 9.804 | 0.3860 | Let. W | 71 | 133 | 87 | 9.804 |
| A1211-9.9 | 9.9 | 0.3898 | | 71 | 133 | 87 | 9.9 |
| A1211-25/64IN | 9.922 | 0.3906 | 25/64" | 71 | 133 | 87 | 9.922 |
| A1211-10 | 10 | 0.3937 | | 71 | 133 | 87 | 10 |
| A1211-LET.X | 10.084 | 0.3970 | Let. X | 71 | 133 | 87 | 10.084 |
| A1211-10.1 | 10.1 | 0.3976 | | 71 | 133 | 87 | 10.1 |
| A1211-10.2 | 10.2 | 0.4016 | | 71 | 133 | 87 | 10.2 |
| A1211-10.25 | 10.25 | 0.4035 | | 71 | 133 | 87 | 10.25 |
| A1211-LET.Y | 10.262 | 0.4040 | Let. Y | 71 | 133 | 87 | 10.262 |
| A1211-10.3 | 10.3 | 0.4055 | | 71 | 133 | 87 | 10.3 |
| A1211-13/32IN | 10.319 | 0.4063 | 13/32" | 71 | 133 | 87 | 10.319 |
| A1211-10.4 | 10.4 | 0.4094 | | 71 | 133 | 87 | 10.4 |
| A1211-LET.Z | 10.49 | 0.4130 | Let. Z | 71 | 133 | 87 | 10.49 |
| A1211-10.5 | 10.5 | 0.4134 | | 71 | 133 | 87 | 10.5 |
| A1211-10.6 | 10.6 | 0.4173 | | 71 | 133 | 87 | 10.6 |
| A1211-10.7 | 10.7 | 0.4213 | | 76 | 142 | 94 | 10.7 |
| A1211-27/64IN | 10.716 | 0.4219 | 27/64" | 76 | 142 | 94 | 10.716 |

## Tool

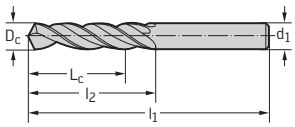



Cylindrical shank

B1

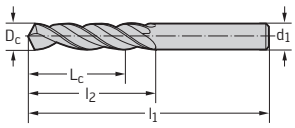
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-10.75 | 10.75 | 0.4232 | | 76 | 142 | 94 | 10.75 |
| A1211-10.8 | 10.8 | 0.4252 | | 76 | 142 | 94 | 10.8 |
| A1211-10.9 | 10.9 | 0.4291 | | 76 | 142 | 94 | 10.9 |
| A1211-11 | 11 | 0.4331 | | 76 | 142 | 94 | 11 |
| A1211-11.1 | 11.1 | 0.4370 | | 76 | 142 | 94 | 11.1 |
| A1211-7/16IN | 11.113 | 0.4375 | 7/16" | 76 | 142 | 94 | 11.113 |
| A1211-11.2 | 11.2 | 0.4409 | | 76 | 142 | 94 | 11.2 |
| A1211-11.25 | 11.25 | 0.4429 | | 76 | 142 | 94 | 11.25 |
| A1211-11.3 | 11.3 | 0.4449 | | 76 | 142 | 94 | 11.3 |
| A1211-11.4 | 11.4 | 0.4488 | | 76 | 142 | 94 | 11.4 |
| A1211-11.5 | 11.5 | 0.4528 | | 76 | 142 | 94 | 11.5 |
| A1211-29/64IN | 11.509 | 0.4531 | 29/64" | 76 | 142 | 94 | 11.509 |
| A1211-11.6 | 11.6 | 0.4567 | | 76 | 142 | 94 | 11.6 |
| A1211-11.7 | 11.7 | 0.4606 | | 76 | 142 | 94 | 11.7 |
| A1211-11.75 | 11.75 | 0.4626 | | 76 | 142 | 94 | 11.75 |
| A1211-11.8 | 11.8 | 0.4646 | | 76 | 142 | 94 | 11.8 |
| A1211-11.9 | 11.9 | 0.4685 | | 87 | 151 | 101 | 11.9 |
| A1211-15/32IN | 11.906 | 0.4687 | 15/32" | 87 | 151 | 101 | 11.906 |
| A1211-12 | 12 | 0.4724 | | 87 | 151 | 101 | 12 |
| A1211-12.1 | 12.1 | 0.4764 | | 87 | 151 | 101 | 12.1 |
| A1211-12.2 | 12.2 | 0.4803 | | 87 | 151 | 101 | 12.2 |
| A1211-12.25 | 12.25 | 0.4823 | | 87 | 151 | 101 | 12.25 |
| A1211-12.3 | 12.3 | 0.4843 | | 87 | 151 | 101 | 12.3 |
| A1211-31/64IN | 12.303 | 0.4844 | 31/64" | 87 | 151 | 101 | 12.303 |
| A1211-12.4 | 12.4 | 0.4882 | | 87 | 151 | 101 | 12.4 |
| A1211-12.5 | 12.5 | 0.4921 | | 87 | 151 | 101 | 12.5 |
| A1211-12.6 | 12.6 | 0.4961 | | 87 | 151 | 101 | 12.6 |
| A1211-1/2IN | 12.7 | 0.5000 | 1/2" | 87 | 151 | 101 | 12.7 |
| A1211-12.75 | 12.75 | 0.5020 | | 87 | 151 | 101 | 12.75 |
| A1211-12.8 | 12.8 | 0.5039 | | 87 | 151 | 101 | 12.8 |
| A1211-12.9 | 12.9 | 0.5079 | | 87 | 151 | 101 | 12.9 |
| A1211-13 | 13 | 0.5118 | | 87 | 151 | 101 | 13 |
| A1211-33/64IN | 13.097 | 0.5156 | | 87 | 151 | 101 | 13.097 |
| A1211-13.1 | 13.1 | 0.5157 | | 87 | 151 | 101 | 13.1 |
| A1211-13.2 | 13.2 | 0.5197 | | 87 | 151 | 101 | 13.2 |
| A1211-13.25 | 13.25 | 0.5217 | | 94 | 160 | 108 | 13.25 |
| A1211-13.3 | 13.3 | 0.5236 | | 94 | 160 | 108 | 13.3 |
| A1211-13.4 | 13.4 | 0.5276 | | 94 | 160 | 108 | 13.4 |
| A1211-17/32IN | 13.494 | 0.5313 | 17/32" | 94 | 160 | 108 | 13.494 |
| A1211-13.5 | 13.5 | 0.5315 | | 94 | 160 | 108 | 13.5 |
| A1211-13.6 | 13.6 | 0.5354 | | 94 | 160 | 108 | 13.6 |
| A1211-13.7 | 13.7 | 0.5394 | | 94 | 160 | 108 | 13.7 |
| A1211-13.75 | 13.75 | 0.5413 | | 94 | 160 | 108 | 13.75 |
| A1211-13.8 | 13.8 | 0.5433 | | 94 | 160 | 108 | 13.8 |
| A1211-35/64IN | 13.891 | 0.5469 | | 94 | 160 | 108 | 13.891 |
| A1211-13.9 | 13.9 | 0.5472 | | 94 | 160 | 108 | 13.9 |
| A1211-14 | 14 | 0.5512 | | 94 | 160 | 108 | 14 |
| A1211-14.1 | 14.1 | 0.5551 | | 99 | 169 | 114 | 14.1 |

## Tool




Cylindrical shank

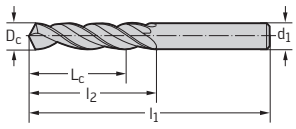
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211-14.2 | 14.2 | 0.5591 | | 99 | 169 | 114 | 14.2 |
| A1211-14.25 | 14.25 | 0.5610 | | 99 | 169 | 114 | 14.25 |
| A1211-9/16IN | 14.288 | 0.5625 | 9/16" | 99 | 169 | 114 | 14.288 |
| A1211-14.3 | 14.3 | 0.5630 | | 99 | 169 | 114 | 14.3 |
| A1211-14.5 | 14.5 | 0.5709 | | 99 | 169 | 114 | 14.5 |
| A1211-37/64IN | 14.684 | 0.5781 | 37/64" | 99 | 169 | 114 | 14.684 |
| A1211-14.75 | 14.75 | 0.5807 | | 99 | 169 | 114 | 14.75 |
| A1211-15 | 15 | 0.5906 | | 99 | 169 | 114 | 15 |
| A1211-19/32IN | 15.081 | 0.5937 | 19/32" | 104 | 178 | 120 | 15.081 |
| A1211-15.2 | 15.2 | 0.5984 | | 104 | 178 | 120 | 15.2 |
| A1211-15.25 | 15.25 | 0.6004 | | 104 | 178 | 120 | 15.25 |
| A1211-39/64IN | 15.478 | 0.6094 | 39/64" | 104 | 178 | 120 | 15.478 |
| A1211-15.5 | 15.5 | 0.6102 | | 104 | 178 | 120 | 15.5 |
| A1211-15.75 | 15.75 | 0.6201 | | 104 | 178 | 120 | 15.75 |
| A1211-5/8IN | 15.875 | 0.6250 | 5/8" | 104 | 178 | 120 | 15.875 |
| A1211-16 | 16 | 0.6299 | | 104 | 178 | 120 | 16 |
| A1211-41/64IN | 16.272 | 0.6406 | | 108 | 184 | 125 | 16.272 |
| A1211-16.5 | 16.5 | 0.6496 | | 108 | 184 | 125 | 16.5 |
| A1211-21/32IN | 16.669 | 0.6563 | | 108 | 184 | 125 | 16.669 |
| A1211-17 | 17 | 0.6693 | | 108 | 184 | 125 | 17 |
| A1211-43/64IN | 17.066 | 0.6719 | | 112 | 191 | 130 | 17.066 |
| A1211-11/16IN | 17.463 | 0.6875 | | 112 | 191 | 130 | 17.463 |
| A1211-17.5 | 17.5 | 0.6890 | | 112 | 191 | 130 | 17.5 |
| A1211-18 | 18 | 0.7087 | | 112 | 191 | 130 | 18 |
| A1211-18.5 | 18.5 | 0.7283 | | 116 | 198 | 135 | 18.5 |
| A1211-19 | 19 | 0.7480 | | 116 | 198 | 135 | 19 |
| A1211-19.5 | 19.5 | 0.7677 | | 120 | 205 | 140 | 19.5 |
| A1211-20 | 20 | 0.7874 | | 120 | 205 | 140 | 20 |
| A1211-21 | 21 | 0.8268 | | 123 | 213 | 145 | 21 |
| A1211-22 | 22 | 0.8661 | | 127 | 221 | 150 | 22 |




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211TIN-0.5 | 0.5 | 0.0197 | | 5.2 | 22 | 6 | 0.5 |
| A1211TIN-0.6 | 0.6 | 0.0236 | | 6.1 | 24 | 7 | 0.6 |
| A1211TIN-0.7 | 0.7 | 0.0276 | | 7.8 | 28 | 9 | 0.7 |
| A1211TIN-0.8 | 0.8 | 0.0315 | | 8.7 | 30 | 10 | 0.8 |
| A1211TIN-0.9 | 0.9 | 0.0354 | | 9.5 | 32 | 11 | 0.9 |
| A1211TIN-1 | 1 | 0.0394 | | 10 | 34 | 12 | 1 |
| A1211TIN-1.1 | 1.1 | 0.0433 | | 12 | 36 | 14 | 1.1 |
| A1211TIN-1.2 | 1.2 | 0.0472 | | 14 | 38 | 16 | 1.2 |
| A1211TIN-1.3 | 1.3 | 0.0512 | | 14 | 38 | 16 | 1.3 |
| A1211TIN-1.4 | 1.4 | 0.0551 | | 15 | 40 | 18 | 1.4 |
| A1211TIN-1.5 | 1.5 | 0.0591 | | 15 | 40 | 18 | 1.5 |
| A1211TIN-1.6 | 1.6 | 0.0630 | | 17 | 43 | 20 | 1.6 |
| A1211TIN-1.7 | 1.7 | 0.0669 | | 17 | 43 | 20 | 1.7 |
| A1211TIN-1.8 | 1.8 | 0.0709 | | 19 | 46 | 22 | 1.8 |
| A1211TIN-1.9 | 1.9 | 0.0748 | | 19 | 46 | 22 | 1.9 |
| A1211TIN-2 | 2 | 0.0787 | | 20 | 49 | 24 | 2 |
| A1211TIN-2.1 | 2.1 | 0.0827 | | 20 | 49 | 24 | 2.1 |
| A1211TIN-2.2 | 2.2 | 0.0866 | | 23 | 53 | 27 | 2.2 |

## Tool

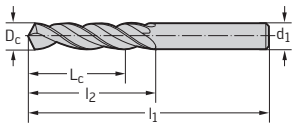



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211TIN-2.3 | 2.3 | 0.0906 | | 23 | 53 | 27 | 2.3 |
| A1211TIN-2.4 | 2.4 | 0.0945 | | 26 | 57 | 30 | 2.4 |
| A1211TIN-2.5 | 2.5 | 0.0984 | | 26 | 57 | 30 | 2.5 |
| A1211TIN-2.6 | 2.6 | 0.1024 | | 26 | 57 | 30 | 2.6 |
| A1211TIN-2.7 | 2.7 | 0.1063 | | 28 | 61 | 33 | 2.7 |
| A1211TIN-2.8 | 2.8 | 0.1102 | | 28 | 61 | 33 | 2.8 |
| A1211TIN-2.9 | 2.9 | 0.1142 | | 28 | 61 | 33 | 2.9 |
| A1211TIN-3 | 3 | 0.1181 | | 28 | 61 | 33 | 3 |
| A1211TIN-3.1 | 3.1 | 0.1220 | | 30 | 65 | 36 | 3.1 |
| A1211TIN-3.2 | 3.2 | 0.1260 | | 30 | 65 | 36 | 3.2 |
| A1211TIN-3.3 | 3.3 | 0.1299 | | 30 | 65 | 36 | 3.3 |
| A1211TIN-3.4 | 3.4 | 0.1339 | | 33 | 70 | 39 | 3.4 |
| A1211TIN-3.5 | 3.5 | 0.1378 | | 33 | 70 | 39 | 3.5 |
| A1211TIN-3.6 | 3.6 | 0.1417 | | 33 | 70 | 39 | 3.6 |
| A1211TIN-3.7 | 3.7 | 0.1457 | | 33 | 70 | 39 | 3.7 |
| A1211TIN-3.8 | 3.8 | 0.1496 | | 36 | 75 | 43 | 3.8 |
| A1211TIN-3.9 | 3.9 | 0.1535 | | 36 | 75 | 43 | 3.9 |
| A1211TIN-4 | 4 | 0.1575 | | 36 | 75 | 43 | 4 |
| A1211TIN-4.1 | 4.1 | 0.1614 | | 36 | 75 | 43 | 4.1 |
| A1211TIN-4.2 | 4.2 | 0.1654 | | 36 | 75 | 43 | 4.2 |
| A1211TIN-4.3 | 4.3 | 0.1693 | | 39 | 80 | 47 | 4.3 |
| A1211TIN-4.4 | 4.4 | 0.1732 | | 39 | 80 | 47 | 4.4 |
| A1211TIN-4.5 | 4.5 | 0.1772 | | 39 | 80 | 47 | 4.5 |
| A1211TIN-4.6 | 4.6 | 0.1811 | | 39 | 80 | 47 | 4.6 |
| A1211TIN-4.7 | 4.7 | 0.1850 | | 39 | 80 | 47 | 4.7 |
| A1211TIN-4.8 | 4.8 | 0.1890 | | 44 | 86 | 52 | 4.8 |
| A1211TIN-4.9 | 4.9 | 0.1929 | | 44 | 86 | 52 | 4.9 |
| A1211TIN-5 | 5 | 0.1969 | | 44 | 86 | 52 | 5 |
| A1211TIN-5.1 | 5.1 | 0.2008 | | 44 | 86 | 52 | 5.1 |
| A1211TIN-5.2 | 5.2 | 0.2047 | | 44 | 86 | 52 | 5.2 |
| A1211TIN-5.3 | 5.3 | 0.2087 | | 44 | 86 | 52 | 5.3 |
| A1211TIN-5.4 | 5.4 | 0.2126 | | 48 | 93 | 57 | 5.4 |
| A1211TIN-5.5 | 5.5 | 0.2165 | | 48 | 93 | 57 | 5.5 |
| A1211TIN-5.6 | 5.6 | 0.2205 | | 48 | 93 | 57 | 5.6 |
| A1211TIN-5.7 | 5.7 | 0.2244 | | 48 | 93 | 57 | 5.7 |
| A1211TIN-5.8 | 5.8 | 0.2283 | | 48 | 93 | 57 | 5.8 |
| A1211TIN-5.9 | 5.9 | 0.2323 | | 48 | 93 | 57 | 5.9 |
| A1211TIN-6 | 6 | 0.2362 | | 48 | 93 | 57 | 6 |
| A1211TIN-6.1 | 6.1 | 0.2402 | | 52 | 101 | 63 | 6.1 |
| A1211TIN-6.2 | 6.2 | 0.2441 | | 52 | 101 | 63 | 6.2 |
| A1211TIN-6.3 | 6.3 | 0.2480 | | 52 | 101 | 63 | 6.3 |
| A1211TIN-6.4 | 6.4 | 0.2520 | | 52 | 101 | 63 | 6.4 |
| A1211TIN-6.5 | 6.5 | 0.2559 | | 52 | 101 | 63 | 6.5 |
| A1211TIN-6.6 | 6.6 | 0.2598 | | 52 | 101 | 63 | 6.6 |
| A1211TIN-6.7 | 6.7 | 0.2638 | | 52 | 101 | 63 | 6.7 |
| A1211TIN-6.8 | 6.8 | 0.2677 | | 57 | 109 | 69 | 6.8 |
| A1211TIN-6.9 | 6.9 | 0.2717 | | 57 | 109 | 69 | 6.9 |
| A1211TIN-7 | 7 | 0.2756 | | 57 | 109 | 69 | 7 |

## Tool

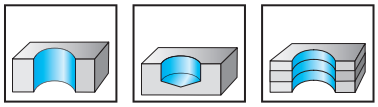



Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1211TIN-7.1 | 7.1 | 0.2795 | | 57 | 109 | 69 | 7.1 |
| A1211TIN-7.2 | 7.2 | 0.2835 | | 57 | 109 | 69 | 7.2 |
| A1211TIN-7.3 | 7.3 | 0.2874 | | 57 | 109 | 69 | 7.3 |
| A1211TIN-7.4 | 7.4 | 0.2913 | | 57 | 109 | 69 | 7.4 |
| A1211TIN-7.5 | 7.5 | 0.2953 | | 57 | 109 | 69 | 7.5 |
| A1211TIN-7.6 | 7.6 | 0.2992 | | 62 | 117 | 75 | 7.6 |
| A1211TIN-7.7 | 7.7 | 0.3031 | | 62 | 117 | 75 | 7.7 |
| A1211TIN-7.8 | 7.8 | 0.3071 | | 62 | 117 | 75 | 7.8 |
| A1211TIN-7.9 | 7.9 | 0.3110 | | 62 | 117 | 75 | 7.9 |
| A1211TIN-8 | 8 | 0.3150 | | 62 | 117 | 75 | 8 |
| A1211TIN-8.1 | 8.1 | 0.3189 | | 62 | 117 | 75 | 8.1 |
| A1211TIN-8.2 | 8.2 | 0.3228 | | 62 | 117 | 75 | 8.2 |
| A1211TIN-8.3 | 8.3 | 0.3268 | | 62 | 117 | 75 | 8.3 |
| A1211TIN-8.4 | 8.4 | 0.3307 | | 62 | 117 | 75 | 8.4 |
| A1211TIN-8.5 | 8.5 | 0.3346 | | 62 | 117 | 75 | 8.5 |
| A1211TIN-8.6 | 8.6 | 0.3386 | | 66 | 125 | 81 | 8.6 |
| A1211TIN-8.7 | 8.7 | 0.3425 | | 66 | 125 | 81 | 8.7 |
| A1211TIN-8.8 | 8.8 | 0.3465 | | 66 | 125 | 81 | 8.8 |
| A1211TIN-8.9 | 8.9 | 0.3504 | | 66 | 125 | 81 | 8.9 |
| A1211TIN-9 | 9 | 0.3543 | | 66 | 125 | 81 | 9 |
| A1211TIN-9.1 | 9.1 | 0.3583 | | 66 | 125 | 81 | 9.1 |
| A1211TIN-9.2 | 9.2 | 0.3622 | | 66 | 125 | 81 | 9.2 |
| A1211TIN-9.3 | 9.3 | 0.3661 | | 66 | 125 | 81 | 9.3 |
| A1211TIN-9.4 | 9.4 | 0.3701 | | 66 | 125 | 81 | 9.4 |
| A1211TIN-9.5 | 9.5 | 0.3740 | | 66 | 125 | 81 | 9.5 |
| A1211TIN-9.6 | 9.6 | 0.3780 | | 71 | 133 | 87 | 9.6 |
| A1211TIN-9.7 | 9.7 | 0.3819 | | 71 | 133 | 87 | 9.7 |
| A1211TIN-9.8 | 9.8 | 0.3858 | | 71 | 133 | 87 | 9.8 |
| A1211TIN-9.9 | 9.9 | 0.3898 | | 71 | 133 | 87 | 9.9 |
| A1211TIN-10 | 10 | 0.3937 | | 71 | 133 | 87 | 10 |
| A1211TIN-10.2 | 10.2 | 0.4016 | | 71 | 133 | 87 | 10.2 |
| A1211TIN-10.5 | 10.5 | 0.4134 | | 71 | 133 | 87 | 10.5 |
| A1211TIN-11 | 11 | 0.4331 | | 76 | 142 | 94 | 11 |
| A1211TIN-11.5 | 11.5 | 0.4528 | | 76 | 142 | 94 | 11.5 |
| A1211TIN-12 | 12 | 0.4724 | | 87 | 151 | 101 | 12 |
| A1211TIN-12.5 | 12.5 | 0.4921 | | 87 | 151 | 101 | 12.5 |
| A1211TIN-13 | 13 | 0.5118 | | 87 | 151 | 101 | 13 |
| A1211TIN-13.5 | 13.5 | 0.5315 | | 94 | 160 | 108 | 13.5 |
| A1211TIN-14 | 14 | 0.5512 | | 94 | 160 | 108 | 14 |
| A1211TIN-14.5 | 14.5 | 0.5709 | | 99 | 169 | 114 | 14.5 |
| A1211TIN-15 | 15 | 0.5906 | | 99 | 169 | 114 | 15 |
| A1211TIN-16 | 16 | 0.6299 | | 104 | 178 | 120 | 16 |

# HSS twist drills
## DA110 Perform

– Available as a set
– Type N

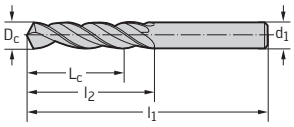


~8×$D_c$ | DIN 338 |  |  118°

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| WZ90AJ | ●● | ● | ●● | ● | | | ● |

B1

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 | WZ90AJ |
|---|---|---|---|---|---|---|---|
| DA110-08-01.000U0- | 1 | 0.0394 | 10 | 34 | 12 | 1 | |
| DA110-08-01.100U0- | 1.1 | 0.0433 | 12 | 36 | 14 | 1.1 | |
| DA110-08-01.200U0- | 1.2 | 0.0472 | 14 | 38 | 16 | 1.2 | |
| DA110-08-01.300U0- | 1.3 | 0.0512 | 14 | 38 | 16 | 1.3 | |
| DA110-08-01.400U0- | 1.4 | 0.0551 | 15 | 40 | 18 | 1.4 | |
| DA110-08-01.500U0- | 1.5 | 0.0591 | 15 | 40 | 18 | 1.5 | |
| DA110-08-01.600U0- | 1.6 | 0.0630 | 17 | 43 | 20 | 1.6 | |
| DA110-08-01.700U0- | 1.7 | 0.0669 | 17 | 43 | 20 | 1.7 | |
| DA110-08-01.800U0- | 1.8 | 0.0709 | 19 | 46 | 22 | 1.8 | |
| DA110-08-01.900U0- | 1.9 | 0.0748 | 19 | 46 | 22 | 1.9 | |
| DA110-08-02.000U0- | 2 | 0.0787 | 20 | 49 | 24 | 2 | |
| DA110-08-02.100U0- | 2.1 | 0.0827 | 20 | 49 | 24 | 2.1 | |
| DA110-08-02.200U0- | 2.2 | 0.0866 | 23 | 53 | 27 | 2.2 | |
| DA110-08-02.300U0- | 2.3 | 0.0906 | 23 | 53 | 27 | 2.3 | |
| DA110-08-02.400U0- | 2.4 | 0.0945 | 26 | 57 | 30 | 2.4 | |
| DA110-08-02.500U0- | 2.5 | 0.0984 | 26 | 57 | 30 | 2.5 | |
| DA110-08-02.600U0- | 2.6 | 0.1024 | 26 | 57 | 30 | 2.6 | |
| DA110-08-02.700U0- | 2.7 | 0.1063 | 28 | 61 | 33 | 2.7 | |
| DA110-08-02.800U0- | 2.8 | 0.1102 | 28 | 61 | 33 | 2.8 | |
| DA110-08-02.900U0- | 2.9 | 0.1142 | 28 | 61 | 33 | 2.9 | |
| DA110-08-03.000U0- | 3 | 0.1181 | 28 | 61 | 33 | 3 | |
| DA110-08-03.100U0- | 3.1 | 0.1220 | 30 | 65 | 36 | 3.1 | |
| DA110-08-03.200U0- | 3.2 | 0.1260 | 30 | 65 | 36 | 3.2 | |
| DA110-08-03.300U0- | 3.3 | 0.1299 | 30 | 65 | 36 | 3.3 | |
| DA110-08-03.400U0- | 3.4 | 0.1339 | 33 | 70 | 39 | 3.4 | |
| DA110-08-03.500U0- | 3.5 | 0.1378 | 33 | 70 | 39 | 3.5 | |
| DA110-08-03.600U0- | 3.6 | 0.1417 | 33 | 70 | 39 | 3.6 | |
| DA110-08-03.700U0- | 3.7 | 0.1457 | 33 | 70 | 39 | 3.7 | |
| DA110-08-03.800U0- | 3.8 | 0.1496 | 36 | 75 | 43 | 3.8 | |
| DA110-08-03.900U0- | 3.9 | 0.1535 | 36 | 75 | 43 | 3.9 | |
| DA110-08-04.000U0- | 4 | 0.1575 | 36 | 75 | 43 | 4 | |
| DA110-08-04.100U0- | 4.1 | 0.1614 | 36 | 75 | 43 | 4.1 | |
| DA110-08-04.200U0- | 4.2 | 0.1654 | 36 | 75 | 43 | 4.2 | |
| DA110-08-04.300U0- | 4.3 | 0.1693 | 39 | 80 | 47 | 4.3 | |
| DA110-08-04.400U0- | 4.4 | 0.1732 | 39 | 80 | 47 | 4.4 | |

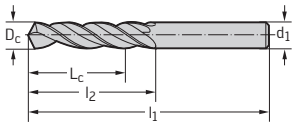
Ordering example for the grade WZ90AJ: DA110-08-01.000U0-WZ90AJ

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

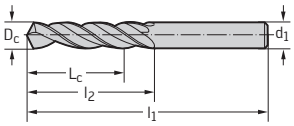



Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 | WZ90AJ |
|---|---|---|---|---|---|---|---|
| DA110-08-04.500U0- | 4.5 | 0.1772 | 39 | 80 | 47 | 4.5 | ● |
| DA110-08-04.600U0- | 4.6 | 0.1811 | 39 | 80 | 47 | 4.6 | ● |
| DA110-08-04.700U0- | 4.7 | 0.1850 | 39 | 80 | 47 | 4.7 | ● |
| DA110-08-04.800U0- | 4.8 | 0.1890 | 44 | 86 | 52 | 4.8 | ● |
| DA110-08-04.900U0- | 4.9 | 0.1929 | 44 | 86 | 52 | 4.9 | ● |
| DA110-08-05.000U0- | 5 | 0.1969 | 44 | 86 | 52 | 5 | ● |
| DA110-08-05.100U0- | 5.1 | 0.2008 | 44 | 86 | 52 | 5.1 | ● |
| DA110-08-05.200U0- | 5.2 | 0.2047 | 44 | 86 | 52 | 5.2 | ● |
| DA110-08-05.300U0- | 5.3 | 0.2087 | 44 | 86 | 52 | 5.3 | ● |
| DA110-08-05.400U0- | 5.4 | 0.2126 | 48 | 93 | 57 | 5.4 | ● |
| DA110-08-05.500U0- | 5.5 | 0.2165 | 48 | 93 | 57 | 5.5 | ● |
| DA110-08-05.600U0- | 5.6 | 0.2205 | 48 | 93 | 57 | 5.6 | ● |
| DA110-08-05.700U0- | 5.7 | 0.2244 | 48 | 93 | 57 | 5.7 | ● |
| DA110-08-05.800U0- | 5.8 | 0.2283 | 48 | 93 | 57 | 5.8 | ● |
| DA110-08-05.900U0- | 5.9 | 0.2323 | 48 | 93 | 57 | 5.9 | ● |
| DA110-08-06.000U0- | 6 | 0.2362 | 48 | 93 | 57 | 6 | ● |
| DA110-08-06.100U0- | 6.1 | 0.2402 | 52 | 101 | 63 | 6.1 | ● |
| DA110-08-06.200U0- | 6.2 | 0.2441 | 52 | 101 | 63 | 6.2 | ● |
| DA110-08-06.300U0- | 6.3 | 0.2480 | 52 | 101 | 63 | 6.3 | ● |
| DA110-08-06.400U0- | 6.4 | 0.2520 | 52 | 101 | 63 | 6.4 | ● |
| DA110-08-06.500U0- | 6.5 | 0.2559 | 52 | 101 | 63 | 6.5 | ● |
| DA110-08-06.600U0- | 6.6 | 0.2598 | 52 | 101 | 63 | 6.6 | ● |
| DA110-08-06.700U0- | 6.7 | 0.2638 | 52 | 101 | 63 | 6.7 | ● |
| DA110-08-06.800U0- | 6.8 | 0.2677 | 57 | 109 | 69 | 6.8 | ● |
| DA110-08-06.900U0- | 6.9 | 0.2717 | 57 | 109 | 69 | 6.9 | ● |
| DA110-08-07.000U0- | 7 | 0.2756 | 57 | 109 | 69 | 7 | ● |
| DA110-08-07.100U0- | 7.1 | 0.2795 | 57 | 109 | 69 | 7.1 | ● |
| DA110-08-07.200U0- | 7.2 | 0.2835 | 57 | 109 | 69 | 7.2 | ● |
| DA110-08-07.300U0- | 7.3 | 0.2874 | 57 | 109 | 69 | 7.3 | ● |
| DA110-08-07.400U0- | 7.4 | 0.2913 | 57 | 109 | 69 | 7.4 | ● |
| DA110-08-07.500U0- | 7.5 | 0.2953 | 57 | 109 | 69 | 7.5 | ● |
| DA110-08-07.600U0- | 7.6 | 0.2992 | 62 | 117 | 75 | 7.6 | ● |
| DA110-08-07.700U0- | 7.7 | 0.3031 | 62 | 117 | 75 | 7.7 | ● |
| DA110-08-07.800U0- | 7.8 | 0.3071 | 62 | 117 | 75 | 7.8 | ● |
| DA110-08-07.900U0- | 7.9 | 0.3110 | 62 | 117 | 75 | 7.9 | ● |
| DA110-08-08.000U0- | 8 | 0.3150 | 62 | 117 | 75 | 8 | ● |
| DA110-08-08.100U0- | 8.1 | 0.3189 | 62 | 117 | 75 | 8.1 | ● |
| DA110-08-08.200U0- | 8.2 | 0.3228 | 62 | 117 | 75 | 8.2 | ● |
| DA110-08-08.300U0- | 8.3 | 0.3268 | 62 | 117 | 75 | 8.3 | ● |
| DA110-08-08.400U0- | 8.4 | 0.3307 | 62 | 117 | 75 | 8.4 | ● |
| DA110-08-08.500U0- | 8.5 | 0.3346 | 62 | 117 | 75 | 8.5 | ● |
| DA110-08-08.600U0- | 8.6 | 0.3386 | 66 | 125 | 81 | 8.6 | ● |
| DA110-08-08.700U0- | 8.7 | 0.3425 | 66 | 125 | 81 | 8.7 | ● |
| DA110-08-08.800U0- | 8.8 | 0.3465 | 66 | 125 | 81 | 8.8 | ● |
| DA110-08-08.900U0- | 8.9 | 0.3504 | 66 | 125 | 81 | 8.9 | ● |
| DA110-08-09.000U0- | 9 | 0.3543 | 66 | 125 | 81 | 9 | ● |
| DA110-08-09.100U0- | 9.1 | 0.3583 | 66 | 125 | 81 | 9.1 | ● |
| DA110-08-09.200U0- | 9.2 | 0.3622 | 66 | 125 | 81 | 9.2 | ● |

Ordering example for the grade WZ90AJ: DA110-08-01.000U0-WZ90AJ

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 | WZ90AJ |
|---|---|---|---|---|---|---|---|
| DA110-08-09.300U0- | 9.3 | 0.3661 | 66 | 125 | 81 | 9.3 | ● |
| DA110-08-09.400U0- | 9.4 | 0.3701 | 66 | 125 | 81 | 9.4 | ● |
| DA110-08-09.500U0- | 9.5 | 0.3740 | 66 | 125 | 81 | 9.5 | ● |
| DA110-08-09.600U0- | 9.6 | 0.3780 | 71 | 133 | 87 | 9.6 | ● |
| DA110-08-09.700U0- | 9.7 | 0.3819 | 71 | 133 | 87 | 9.7 | ● |
| DA110-08-09.800U0- | 9.8 | 0.3858 | 71 | 133 | 87 | 9.8 | ● |
| DA110-08-09.900U0- | 9.9 | 0.3898 | 71 | 133 | 87 | 9.9 | ● |
| DA110-08-10.000U0- | 10 | 0.3937 | 71 | 133 | 87 | 10 | ● |
| DA110-08-10.100U0- | 10.1 | 0.3976 | 71 | 133 | 87 | 10.1 | ● |
| DA110-08-10.200U0- | 10.2 | 0.4016 | 71 | 133 | 87 | 10.2 | ● |
| DA110-08-10.300U0- | 10.3 | 0.4055 | 71 | 133 | 87 | 10.3 | ● |
| DA110-08-10.400U0- | 10.4 | 0.4094 | 71 | 133 | 87 | 10.4 | ● |
| DA110-08-10.500U0- | 10.5 | 0.4134 | 71 | 133 | 87 | 10.5 | ● |
| DA110-08-10.700U0- | 10.7 | 0.4213 | 76 | 142 | 94 | 10.7 | ● |
| DA110-08-10.800U0- | 10.8 | 0.4252 | 76 | 142 | 94 | 10.8 | ● |
| DA110-08-11.000U0- | 11 | 0.4331 | 76 | 142 | 94 | 11 | ● |
| DA110-08-11.100U0- | 11.1 | 0.4370 | 76 | 142 | 94 | 11.1 | ● |
| DA110-08-11.300U0- | 11.3 | 0.4449 | 76 | 142 | 94 | 11.3 | ● |
| DA110-08-11.500U0- | 11.5 | 0.4528 | 76 | 142 | 94 | 11.5 | ● |
| DA110-08-11.800U0- | 11.8 | 0.4646 | 76 | 142 | 94 | 11.8 | ● |
| DA110-08-12.000U0- | 12 | 0.4724 | 87 | 151 | 101 | 12 | ● |
| DA110-08-12.100U0- | 12.1 | 0.4764 | 87 | 151 | 101 | 12.1 | ● |
| DA110-08-12.200U0- | 12.2 | 0.4803 | 87 | 151 | 101 | 12.2 | ● |
| DA110-08-12.500U0- | 12.5 | 0.4921 | 87 | 151 | 101 | 12.5 | ● |
| DA110-08-13.000U0- | 13 | 0.5118 | 87 | 151 | 101 | 13 | ● |
| DA110-08-13.500U0- | 13.5 | 0.5315 | 94 | 160 | 108 | 13.5 | ● |
| DA110-08-13.700U0- | 13.7 | 0.5394 | 94 | 160 | 108 | 13.7 | ● |
| DA110-08-14.000U0- | 14 | 0.5512 | 94 | 160 | 108 | 14 | ● |
| DA110-08-14.500U0- | 14.5 | 0.5709 | 99 | 169 | 114 | 14.5 | ● |
| DA110-08-15.000U0- | 15 | 0.5906 | 99 | 169 | 114 | 15 | ● |
| DA110-08-15.500U0- | 15.5 | 0.6102 | 104 | 178 | 120 | 15.5 | ● |
| DA110-08-16.000U0- | 16 | 0.6299 | 104 | 178 | 120 | 16 | ● |

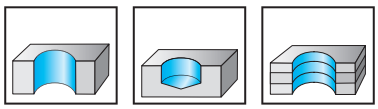
Ordering example for the grade WZ90AJ: DA110-08-01.000U0-WZ90AJ

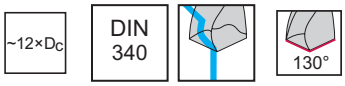
# HSS-E deep-hole drills, long

## A1549TFP

## UFL®



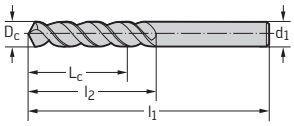





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| TFP | ●● | ●● | ●● | ●● | ● | | ● |

B1

### Tool




Cylindrical shank

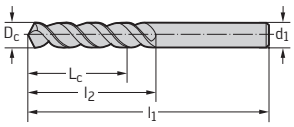
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1549TFP-1 | 1 | 0.0394 | 31 | 56 | 33 | 1 |
| A1549TFP-1.1 | 1.1 | 0.0433 | 35 | 60 | 37 | 1.1 |
| A1549TFP-1.2 | 1.2 | 0.0472 | 39 | 65 | 41 | 1.2 |
| A1549TFP-1.3 | 1.3 | 0.0512 | 39 | 65 | 41 | 1.3 |
| A1549TFP-1.4 | 1.4 | 0.0551 | 42 | 70 | 45 | 1.4 |
| A1549TFP-1.5 | 1.5 | 0.0591 | 42 | 70 | 45 | 1.5 |
| A1549TFP-1.6 | 1.6 | 0.0630 | 47 | 76 | 50 | 1.6 |
| A1549TFP-1.7 | 1.7 | 0.0669 | 47 | 76 | 50 | 1.7 |
| A1549TFP-1.8 | 1.8 | 0.0709 | 50 | 80 | 53 | 1.8 |
| A1549TFP-1.9 | 1.9 | 0.0748 | 50 | 80 | 53 | 1.9 |
| A1549TFP-2 | 2 | 0.0787 | 52 | 85 | 56 | 2 |
| A1549TFP-2.1 | 2.1 | 0.0827 | 52 | 85 | 56 | 2.1 |
| A1549TFP-2.2 | 2.2 | 0.0866 | 55 | 90 | 59 | 2.2 |
| A1549TFP-2.3 | 2.3 | 0.0906 | 55 | 90 | 59 | 2.3 |
| A1549TFP-2.4 | 2.4 | 0.0945 | 58 | 95 | 62 | 2.4 |
| A1549TFP-2.5 | 2.5 | 0.0984 | 58 | 95 | 62 | 2.5 |
| A1549TFP-2.6 | 2.6 | 0.1024 | 58 | 95 | 62 | 2.6 |
| A1549TFP-2.7 | 2.7 | 0.1063 | 61 | 100 | 66 | 2.7 |
| A1549TFP-2.8 | 2.8 | 0.1102 | 61 | 100 | 66 | 2.8 |
| A1549TFP-2.9 | 2.9 | 0.1142 | 61 | 100 | 66 | 2.9 |
| A1549TFP-3 | 3 | 0.1181 | 61 | 100 | 66 | 3 |
| A1549TFP-3.1 | 3.1 | 0.1220 | 63 | 106 | 69 | 3.1 |
| A1549TFP-3.2 | 3.2 | 0.1260 | 63 | 106 | 69 | 3.2 |
| A1549TFP-3.3 | 3.3 | 0.1299 | 63 | 106 | 69 | 3.3 |
| A1549TFP-3.4 | 3.4 | 0.1339 | 67 | 112 | 73 | 3.4 |
| A1549TFP-3.5 | 3.5 | 0.1378 | 67 | 112 | 73 | 3.5 |
| A1549TFP-3.6 | 3.6 | 0.1417 | 67 | 112 | 73 | 3.6 |
| A1549TFP-3.7 | 3.7 | 0.1457 | 67 | 112 | 73 | 3.7 |
| A1549TFP-3.8 | 3.8 | 0.1496 | 71 | 119 | 78 | 3.8 |
| A1549TFP-3.9 | 3.9 | 0.1535 | 71 | 119 | 78 | 3.9 |
| A1549TFP-4 | 4 | 0.1575 | 71 | 119 | 78 | 4 |
| A1549TFP-4.1 | 4.1 | 0.1614 | 71 | 119 | 78 | 4.1 |
| A1549TFP-4.2 | 4.2 | 0.1654 | 71 | 119 | 78 | 4.2 |
| A1549TFP-4.3 | 4.3 | 0.1693 | 74 | 126 | 82 | 4.3 |
| A1549TFP-4.4 | 4.4 | 0.1732 | 74 | 126 | 82 | 4.4 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

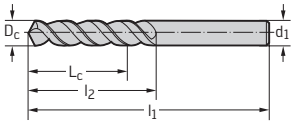



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1549TFP-4.5 | 4.5 | 0.1772 | 74 | 126 | 82 | 4.5 |
| A1549TFP-4.6 | 4.6 | 0.1811 | 74 | 126 | 82 | 4.6 |
| A1549TFP-4.7 | 4.7 | 0.1850 | 74 | 126 | 82 | 4.7 |
| A1549TFP-4.8 | 4.8 | 0.1890 | 79 | 132 | 87 | 4.8 |
| A1549TFP-4.9 | 4.9 | 0.1929 | 79 | 132 | 87 | 4.9 |
| A1549TFP-5 | 5 | 0.1969 | 79 | 132 | 87 | 5 |
| A1549TFP-5.1 | 5.1 | 0.2008 | 79 | 132 | 87 | 5.1 |
| A1549TFP-5.2 | 5.2 | 0.2047 | 79 | 132 | 87 | 5.2 |
| A1549TFP-5.3 | 5.3 | 0.2087 | 79 | 132 | 87 | 5.3 |
| A1549TFP-5.4 | 5.4 | 0.2126 | 82 | 139 | 91 | 5.4 |
| A1549TFP-5.5 | 5.5 | 0.2165 | 82 | 139 | 91 | 5.5 |
| A1549TFP-5.6 | 5.6 | 0.2205 | 82 | 139 | 91 | 5.6 |
| A1549TFP-5.7 | 5.7 | 0.2244 | 82 | 139 | 91 | 5.7 |
| A1549TFP-5.8 | 5.8 | 0.2283 | 82 | 139 | 91 | 5.8 |
| A1549TFP-5.9 | 5.9 | 0.2323 | 82 | 139 | 91 | 5.9 |
| A1549TFP-6 | 6 | 0.2362 | 82 | 139 | 91 | 6 |
| A1549TFP-6.1 | 6.1 | 0.2402 | 86 | 148 | 97 | 6.1 |
| A1549TFP-6.2 | 6.2 | 0.2441 | 86 | 148 | 97 | 6.2 |
| A1549TFP-6.3 | 6.3 | 0.2480 | 86 | 148 | 97 | 6.3 |
| A1549TFP-6.4 | 6.4 | 0.2520 | 86 | 148 | 97 | 6.4 |
| A1549TFP-6.5 | 6.5 | 0.2559 | 86 | 148 | 97 | 6.5 |
| A1549TFP-6.6 | 6.6 | 0.2598 | 86 | 148 | 97 | 6.6 |
| A1549TFP-6.7 | 6.7 | 0.2638 | 86 | 148 | 97 | 6.7 |
| A1549TFP-6.8 | 6.8 | 0.2677 | 90 | 156 | 102 | 6.8 |
| A1549TFP-6.9 | 6.9 | 0.2717 | 90 | 156 | 102 | 6.9 |
| A1549TFP-7 | 7 | 0.2756 | 90 | 156 | 102 | 7 |
| A1549TFP-7.1 | 7.1 | 0.2795 | 90 | 156 | 102 | 7.1 |
| A1549TFP-7.2 | 7.2 | 0.2835 | 90 | 156 | 102 | 7.2 |
| A1549TFP-7.3 | 7.3 | 0.2874 | 90 | 156 | 102 | 7.3 |
| A1549TFP-7.4 | 7.4 | 0.2913 | 90 | 156 | 102 | 7.4 |
| A1549TFP-7.5 | 7.5 | 0.2953 | 90 | 156 | 102 | 7.5 |
| A1549TFP-7.6 | 7.6 | 0.2992 | 96 | 165 | 109 | 7.6 |
| A1549TFP-7.7 | 7.7 | 0.3031 | 96 | 165 | 109 | 7.7 |
| A1549TFP-7.8 | 7.8 | 0.3071 | 96 | 165 | 109 | 7.8 |
| A1549TFP-7.9 | 7.9 | 0.3110 | 96 | 165 | 109 | 7.9 |
| A1549TFP-8 | 8 | 0.3150 | 96 | 165 | 109 | 8 |
| A1549TFP-8.1 | 8.1 | 0.3189 | 96 | 165 | 109 | 8.1 |
| A1549TFP-8.2 | 8.2 | 0.3228 | 96 | 165 | 109 | 8.2 |
| A1549TFP-8.3 | 8.3 | 0.3268 | 96 | 165 | 109 | 8.3 |
| A1549TFP-8.4 | 8.4 | 0.3307 | 96 | 165 | 109 | 8.4 |
| A1549TFP-8.5 | 8.5 | 0.3346 | 96 | 165 | 109 | 8.5 |
| A1549TFP-8.6 | 8.6 | 0.3386 | 100 | 175 | 115 | 8.6 |
| A1549TFP-8.7 | 8.7 | 0.3425 | 100 | 175 | 115 | 8.7 |
| A1549TFP-8.8 | 8.8 | 0.3465 | 100 | 175 | 115 | 8.8 |
| A1549TFP-8.9 | 8.9 | 0.3504 | 100 | 175 | 115 | 8.9 |
| A1549TFP-9 | 9 | 0.3543 | 100 | 175 | 115 | 9 |
| A1549TFP-9.1 | 9.1 | 0.3583 | 100 | 175 | 115 | 9.1 |
| A1549TFP-9.3 | 9.3 | 0.3661 | 100 | 175 | 115 | 9.3 |

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1549TFP-9.4 | 9.4 | 0.3701 | 100 | 175 | 115 | 9.4 |
| A1549TFP-9.5 | 9.5 | 0.3740 | 100 | 175 | 115 | 9.5 |
| A1549TFP-9.6 | 9.6 | 0.3780 | 105 | 184 | 121 | 9.6 |
| A1549TFP-9.7 | 9.7 | 0.3819 | 105 | 184 | 121 | 9.7 |
| A1549TFP-9.8 | 9.8 | 0.3858 | 105 | 184 | 121 | 9.8 |
| A1549TFP-9.9 | 9.9 | 0.3898 | 105 | 184 | 121 | 9.9 |
| A1549TFP-10 | 10 | 0.3937 | 105 | 184 | 121 | 10 |
| A1549TFP-10.2 | 10.2 | 0.4016 | 105 | 184 | 121 | 10.2 |
| A1549TFP-10.5 | 10.5 | 0.4134 | 105 | 184 | 121 | 10.5 |
| A1549TFP-11 | 11 | 0.4331 | 110 | 195 | 128 | 11 |
| A1549TFP-11.5 | 11.5 | 0.4528 | 110 | 195 | 128 | 11.5 |
| A1549TFP-12 | 12 | 0.4724 | 120 | 205 | 134 | 12 |

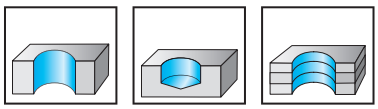
# HSS-E twist drills, long

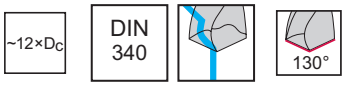
## A1547

## Alpha® XE



– Uncoated up to 1.9 mm

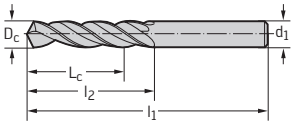





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ● | ●● | ●● | ● | ●● | | ● |

B1

## Tool




Cylindrical shank

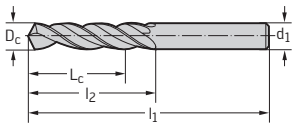
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1547-1 | 1 | 0.0394 | | 31 | 56 | 33 | 1 |
| A1547-NO60 | 1.016 | 0.0400 | No. 60 | 31 | 56 | 33 | 1.016 |
| A1547-NO59 | 1.041 | 0.0410 | No. 59 | 31 | 56 | 33 | 1.041 |
| A1547-NO58 | 1.067 | 0.0420 | No. 58 | 35 | 60 | 37 | 1.067 |
| A1547-NO57 | 1.092 | 0.0430 | No. 57 | 35 | 60 | 37 | 1.092 |
| A1547-1.1 | 1.1 | 0.0433 | | 35 | 60 | 37 | 1.1 |
| A1547-NO56 | 1.181 | 0.0465 | No. 56 | 39 | 65 | 41 | 1.181 |
| A1547-3/64IN | 1.191 | 0.0469 | 3/64" | 39 | 65 | 41 | 1.191 |
| A1547-1.2 | 1.2 | 0.0472 | | 39 | 65 | 41 | 1.2 |
| A1547-1.3 | 1.3 | 0.0512 | | 39 | 65 | 41 | 1.3 |
| A1547-NO55 | 1.321 | 0.0520 | No. 55 | 42 | 70 | 45 | 1.321 |
| A1547-1.4 | 1.4 | 0.0551 | | 42 | 70 | 45 | 1.4 |
| A1547-1.5 | 1.5 | 0.0591 | | 42 | 70 | 45 | 1.5 |
| A1547-NO53 | 1.511 | 0.0595 | No. 53 | 47 | 76 | 50 | 1.511 |
| A1547-1/16IN | 1.588 | 0.0625 | 1/16" | 47 | 76 | 50 | 1.588 |
| A1547-1.6 | 1.6 | 0.0630 | | 47 | 76 | 50 | 1.6 |
| A1547-NO52 | 1.613 | 0.0635 | No. 52 | 47 | 76 | 50 | 1.613 |
| A1547-1.7 | 1.7 | 0.0669 | | 47 | 76 | 50 | 1.7 |
| A1547-NO51 | 1.702 | 0.0670 | No. 51 | 50 | 80 | 53 | 1.702 |
| A1547-NO50 | 1.778 | 0.0700 | No. 50 | 50 | 80 | 53 | 1.778 |
| A1547-1.8 | 1.8 | 0.0709 | | 50 | 80 | 53 | 1.8 |
| A1547-NO49 | 1.854 | 0.0730 | No. 49 | 50 | 80 | 53 | 1.854 |
| A1547-1.9 | 1.9 | 0.0748 | | 50 | 80 | 53 | 1.9 |
| A1547-NO48 | 1.93 | 0.0760 | No. 48 | 52 | 85 | 56 | 1.93 |
| A1547-5/64IN | 1.984 | 0.0781 | 5/64" | 52 | 85 | 56 | 1.984 |
| A1547-NO47 | 1.994 | 0.0785 | No. 47 | 52 | 85 | 56 | 1.994 |
| A1547-2 | 2 | 0.0787 | | 52 | 85 | 56 | 2 |
| A1547-NO46 | 2.057 | 0.0810 | No. 46 | 52 | 85 | 56 | 2.057 |
| A1547-NO45 | 2.083 | 0.0820 | No. 45 | 52 | 85 | 56 | 2.083 |
| A1547-2.1 | 2.1 | 0.0827 | | 52 | 85 | 56 | 2.1 |
| A1547-NO44 | 2.184 | 0.0860 | No. 44 | 55 | 90 | 59 | 2.184 |
| A1547-2.2 | 2.2 | 0.0866 | | 55 | 90 | 59 | 2.2 |
| A1547-NO43 | 2.261 | 0.0890 | No. 43 | 55 | 90 | 59 | 2.261 |
| A1547-2.3 | 2.3 | 0.0906 | | 55 | 90 | 59 | 2.3 |
| A1547-NO42 | 2.375 | 0.0935 | No. 42 | 58 | 95 | 62 | 2.375 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

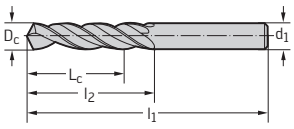
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1547-3/32IN | 2.381 | 0.0937 | 3/32" | 58 | 95 | 62 | 2.381 |
| A1547-2.4 | 2.4 | 0.0945 | | 58 | 95 | 62 | 2.4 |
| A1547-NO41 | 2.438 | 0.0960 | No. 41 | 58 | 95 | 62 | 2.438 |
| A1547-NO40 | 2.489 | 0.0980 | No. 40 | 58 | 95 | 62 | 2.489 |
| A1547-2.5 | 2.5 | 0.0984 | | 58 | 95 | 62 | 2.5 |
| A1547-NO38 | 2.578 | 0.1015 | No. 38 | 58 | 95 | 62 | 2.578 |
| A1547-2.6 | 2.6 | 0.1024 | | 58 | 95 | 62 | 2.6 |
| A1547-NO37 | 2.642 | 0.1040 | No. 37 | 58 | 95 | 62 | 2.642 |
| A1547-2.7 | 2.7 | 0.1063 | | 61 | 100 | 66 | 2.7 |
| A1547-7/64IN | 2.778 | 0.1094 | 7/64" | 61 | 100 | 66 | 2.778 |
| A1547-NO35 | 2.794 | 0.1100 | No. 35 | 61 | 100 | 66 | 2.794 |
| A1547-2.8 | 2.8 | 0.1102 | | 61 | 100 | 66 | 2.8 |
| A1547-NO33 | 2.87 | 0.1130 | No. 33 | 61 | 100 | 66 | 2.87 |
| A1547-2.9 | 2.9 | 0.1142 | | 61 | 100 | 66 | 2.9 |
| A1547-NO32 | 2.946 | 0.1160 | No. 32 | 61 | 100 | 66 | 2.946 |
| A1547-3 | 3 | 0.1181 | | 61 | 100 | 66 | 3 |
| A1547-NO31 | 3.048 | 0.1200 | No. 31 | 63 | 106 | 69 | 3.048 |
| A1547-3.1 | 3.1 | 0.1220 | | 63 | 106 | 69 | 3.1 |
| A1547-1/8IN | 3.175 | 0.1250 | 1/8" | 63 | 106 | 69 | 3.175 |
| A1547-3.2 | 3.2 | 0.1260 | | 63 | 106 | 69 | 3.2 |
| A1547-NO30 | 3.264 | 0.1285 | No. 30 | 63 | 106 | 69 | 3.264 |
| A1547-3.3 | 3.3 | 0.1299 | | 63 | 106 | 69 | 3.3 |
| A1547-3.4 | 3.4 | 0.1339 | | 67 | 112 | 73 | 3.4 |
| A1547-3.5 | 3.5 | 0.1378 | | 67 | 112 | 73 | 3.5 |
| A1547-9/64IN | 3.572 | 0.1406 | 9/64" | 67 | 112 | 73 | 3.572 |
| A1547-3.6 | 3.6 | 0.1417 | | 67 | 112 | 73 | 3.6 |
| A1547-3.7 | 3.7 | 0.1457 | | 67 | 112 | 73 | 3.7 |
| A1547-3.8 | 3.8 | 0.1496 | | 71 | 119 | 78 | 3.8 |
| A1547-3.9 | 3.9 | 0.1535 | | 71 | 119 | 78 | 3.9 |
| A1547-5/32IN | 3.969 | 0.1563 | 5/32" | 71 | 119 | 78 | 3.969 |
| A1547-4 | 4 | 0.1575 | | 71 | 119 | 78 | 4 |
| A1547-4.1 | 4.1 | 0.1614 | | 71 | 119 | 78 | 4.1 |
| A1547-4.2 | 4.2 | 0.1654 | | 71 | 119 | 78 | 4.2 |
| A1547-4.3 | 4.3 | 0.1693 | | 74 | 126 | 82 | 4.3 |
| A1547-11/64IN | 4.366 | 0.1719 | 11/64" | 74 | 126 | 82 | 4.366 |
| A1547-4.4 | 4.4 | 0.1732 | | 74 | 126 | 82 | 4.4 |
| A1547-4.5 | 4.5 | 0.1772 | | 74 | 126 | 82 | 4.5 |
| A1547-4.6 | 4.6 | 0.1811 | | 74 | 126 | 82 | 4.6 |
| A1547-4.7 | 4.7 | 0.1850 | | 74 | 126 | 82 | 4.7 |
| A1547-3/16IN | 4.763 | 0.1875 | 3/16" | 79 | 132 | 87 | 4.763 |
| A1547-4.8 | 4.8 | 0.1890 | | 79 | 132 | 87 | 4.8 |
| A1547-4.9 | 4.9 | 0.1929 | | 79 | 132 | 87 | 4.9 |
| A1547-5 | 5 | 0.1969 | | 79 | 132 | 87 | 5 |
| A1547-5.1 | 5.1 | 0.2008 | | 79 | 132 | 87 | 5.1 |
| A1547-13/64IN | 5.159 | 0.2031 | 13/64" | 79 | 132 | 87 | 5.159 |
| A1547-5.2 | 5.2 | 0.2047 | | 79 | 132 | 87 | 5.2 |
| A1547-5.4 | 5.4 | 0.2126 | | 82 | 139 | 91 | 5.4 |
| A1547-5.5 | 5.5 | 0.2165 | | 82 | 139 | 91 | 5.5 |

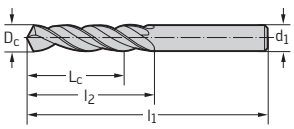
## Tool




Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1547-7/32IN | 5.556 | 0.2187 | 7/32" | 82 | 139 | 91 | 5.556 |
| A1547-5.6 | 5.6 | 0.2205 | | 82 | 139 | 91 | 5.6 |
| A1547-5.7 | 5.7 | 0.2244 | | 82 | 139 | 91 | 5.7 |
| A1547-5.8 | 5.8 | 0.2283 | | 82 | 139 | 91 | 5.8 |
| A1547-5.9 | 5.9 | 0.2323 | | 82 | 139 | 91 | 5.9 |
| A1547-15/64IN | 5.953 | 0.2344 | 15/64" | 82 | 139 | 91 | 5.953 |
| A1547-6 | 6 | 0.2362 | | 82 | 139 | 91 | 6 |
| A1547-6.1 | 6.1 | 0.2402 | | 86 | 148 | 97 | 6.1 |
| A1547-6.2 | 6.2 | 0.2441 | | 86 | 148 | 97 | 6.2 |
| A1547-6.3 | 6.3 | 0.2480 | | 86 | 148 | 97 | 6.3 |
| A1547-1/4IN | 6.35 | 0.2500 | 1/4" | 86 | 148 | 97 | 6.35 |
| A1547-6.4 | 6.4 | 0.2520 | | 86 | 148 | 97 | 6.4 |
| A1547-6.5 | 6.5 | 0.2559 | | 86 | 148 | 97 | 6.5 |
| A1547-6.6 | 6.6 | 0.2598 | | 86 | 148 | 97 | 6.6 |
| A1547-6.7 | 6.7 | 0.2638 | | 86 | 148 | 97 | 6.7 |
| A1547-17/64IN | 6.747 | 0.2656 | 17/64" | 90 | 156 | 102 | 6.747 |
| A1547-6.8 | 6.8 | 0.2677 | | 90 | 156 | 102 | 6.8 |
| A1547-7 | 7 | 0.2756 | | 90 | 156 | 102 | 7 |
| A1547-9/32IN | 7.144 | 0.2813 | 9/32" | 90 | 156 | 102 | 7.144 |
| A1547-7.2 | 7.2 | 0.2835 | | 90 | 156 | 102 | 7.2 |
| A1547-7.4 | 7.4 | 0.2913 | | 90 | 156 | 102 | 7.4 |
| A1547-7.5 | 7.5 | 0.2953 | | 90 | 156 | 102 | 7.5 |
| A1547-7.6 | 7.6 | 0.2992 | | 96 | 165 | 109 | 7.6 |
| A1547-7.7 | 7.7 | 0.3031 | | 96 | 165 | 109 | 7.7 |
| A1547-7.8 | 7.8 | 0.3071 | | 96 | 165 | 109 | 7.8 |
| A1547-7.9 | 7.9 | 0.3110 | | 96 | 165 | 109 | 7.9 |
| A1547-5/16IN | 7.938 | 0.3125 | 5/16" | 96 | 165 | 109 | 7.938 |
| A1547-8 | 8 | 0.3150 | | 96 | 165 | 109 | 8 |
| A1547-8.1 | 8.1 | 0.3189 | | 96 | 165 | 109 | 8.1 |
| A1547-8.2 | 8.2 | 0.3228 | | 96 | 165 | 109 | 8.2 |
| A1547-8.3 | 8.3 | 0.3268 | | 96 | 165 | 109 | 8.3 |
| A1547-21/64IN | 8.334 | 0.3281 | 21/64" | 96 | 165 | 109 | 8.334 |
| A1547-8.5 | 8.5 | 0.3346 | | 96 | 165 | 109 | 8.5 |
| A1547-8.6 | 8.6 | 0.3386 | | 100 | 175 | 115 | 8.6 |
| A1547-8.7 | 8.7 | 0.3425 | | 100 | 175 | 115 | 8.7 |
| A1547-11/32IN | 8.731 | 0.3437 | 11/32" | 100 | 175 | 115 | 8.731 |
| A1547-8.8 | 8.8 | 0.3465 | | 100 | 175 | 115 | 8.8 |
| A1547-9 | 9 | 0.3543 | | 100 | 175 | 115 | 9 |
| A1547-23/64IN | 9.128 | 0.3594 | 23/64" | 100 | 175 | 115 | 9.128 |
| A1547-3/8IN | 9.525 | 0.3750 | 3/8" | 105 | 184 | 121 | 9.525 |
| A1547-25/64IN | 9.922 | 0.3906 | 25/64" | 105 | 184 | 121 | 9.922 |
| A1547-10 | 10 | 0.3937 | | 105 | 184 | 121 | 10 |
| A1547-10.2 | 10.2 | 0.4016 | | 105 | 184 | 121 | 10.2 |
| A1547-13/32IN | 10.319 | 0.4063 | 13/32" | 105 | 184 | 121 | 10.319 |
| A1547-10.5 | 10.5 | 0.4134 | | 105 | 184 | 121 | 10.5 |
| A1547-27/64IN | 10.716 | 0.4219 | 27/64" | 110 | 195 | 128 | 10.716 |
| A1547-11 | 11 | 0.4331 | | 110 | 195 | 128 | 11 |
| A1547-7/16IN | 11.113 | 0.4375 | 7/16" | 110 | 195 | 128 | 11.113 |
| A1547-11.5 | 11.5 | 0.4528 | | 110 | 195 | 128 | 11.5 |
| A1547-15/32IN | 11.906 | 0.4687 | 15/32" | 120 | 205 | 134 | 11.906 |
| A1547-12 | 12 | 0.4724 | | 120 | 205 | 134 | 12 |
| A1547-31/64IN | 12.303 | 0.4844 | 31/64" | 120 | 205 | 134 | 12.303 |
| A1547-1/2IN | 12.7 | 0.5000 | 1/2" | 120 | 205 | 134 | 12.7 |



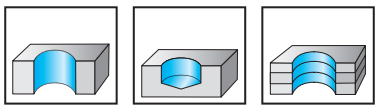

Cylindrical shank

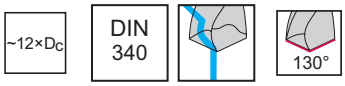
# HSS-E twist drills, long

## A1544

## VA



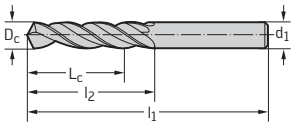





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ● | ●● | | ● | ●● | | |

B1

## Tool




Cylindrical shank

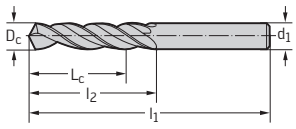
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1544-1 | 1 | 0.0394 | 31 | 56 | 33 | 1 |
| A1544-1.1 | 1.1 | 0.0433 | 35 | 60 | 37 | 1.1 |
| A1544-1.2 | 1.2 | 0.0472 | 39 | 65 | 41 | 1.2 |
| A1544-1.3 | 1.3 | 0.0512 | 39 | 65 | 41 | 1.3 |
| A1544-1.4 | 1.4 | 0.0551 | 42 | 70 | 45 | 1.4 |
| A1544-1.5 | 1.5 | 0.0591 | 42 | 70 | 45 | 1.5 |
| A1544-1.6 | 1.6 | 0.0630 | 47 | 76 | 50 | 1.6 |
| A1544-1.7 | 1.7 | 0.0669 | 47 | 76 | 50 | 1.7 |
| A1544-1.8 | 1.8 | 0.0709 | 50 | 80 | 53 | 1.8 |
| A1544-1.9 | 1.9 | 0.0748 | 50 | 80 | 53 | 1.9 |
| A1544-2 | 2 | 0.0787 | 52 | 85 | 56 | 2 |
| A1544-2.1 | 2.1 | 0.0827 | 52 | 85 | 56 | 2.1 |
| A1544-2.2 | 2.2 | 0.0866 | 55 | 90 | 59 | 2.2 |
| A1544-2.3 | 2.3 | 0.0906 | 55 | 90 | 59 | 2.3 |
| A1544-2.4 | 2.4 | 0.0945 | 58 | 95 | 62 | 2.4 |
| A1544-2.5 | 2.5 | 0.0984 | 58 | 95 | 62 | 2.5 |
| A1544-2.6 | 2.6 | 0.1024 | 58 | 95 | 62 | 2.6 |
| A1544-2.7 | 2.7 | 0.1063 | 61 | 100 | 66 | 2.7 |
| A1544-2.8 | 2.8 | 0.1102 | 61 | 100 | 66 | 2.8 |
| A1544-2.9 | 2.9 | 0.1142 | 61 | 100 | 66 | 2.9 |
| A1544-3 | 3 | 0.1181 | 61 | 100 | 66 | 3 |
| A1544-3.1 | 3.1 | 0.1220 | 63 | 106 | 69 | 3.1 |
| A1544-3.2 | 3.2 | 0.1260 | 63 | 106 | 69 | 3.2 |
| A1544-3.3 | 3.3 | 0.1299 | 63 | 106 | 69 | 3.3 |
| A1544-3.4 | 3.4 | 0.1339 | 67 | 112 | 73 | 3.4 |
| A1544-3.5 | 3.5 | 0.1378 | 67 | 112 | 73 | 3.5 |
| A1544-3.6 | 3.6 | 0.1417 | 67 | 112 | 73 | 3.6 |
| A1544-3.7 | 3.7 | 0.1457 | 67 | 112 | 73 | 3.7 |
| A1544-3.8 | 3.8 | 0.1496 | 71 | 119 | 78 | 3.8 |
| A1544-3.9 | 3.9 | 0.1535 | 71 | 119 | 78 | 3.9 |
| A1544-4 | 4 | 0.1575 | 71 | 119 | 78 | 4 |
| A1544-4.1 | 4.1 | 0.1614 | 71 | 119 | 78 | 4.1 |
| A1544-4.2 | 4.2 | 0.1654 | 71 | 119 | 78 | 4.2 |
| A1544-4.3 | 4.3 | 0.1693 | 74 | 126 | 82 | 4.3 |
| A1544-4.4 | 4.4 | 0.1732 | 74 | 126 | 82 | 4.4 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

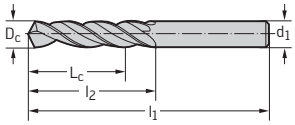



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1544-4.5 | 4.5 | 0.1772 | 74 | 126 | 82 | 4.5 |
| A1544-4.6 | 4.6 | 0.1811 | 74 | 126 | 82 | 4.6 |
| A1544-4.7 | 4.7 | 0.1850 | 74 | 126 | 82 | 4.7 |
| A1544-4.8 | 4.8 | 0.1890 | 79 | 132 | 87 | 4.8 |
| A1544-4.9 | 4.9 | 0.1929 | 79 | 132 | 87 | 4.9 |
| A1544-5 | 5 | 0.1969 | 79 | 132 | 87 | 5 |
| A1544-5.1 | 5.1 | 0.2008 | 79 | 132 | 87 | 5.1 |
| A1544-5.2 | 5.2 | 0.2047 | 79 | 132 | 87 | 5.2 |
| A1544-5.3 | 5.3 | 0.2087 | 79 | 132 | 87 | 5.3 |
| A1544-5.4 | 5.4 | 0.2126 | 82 | 139 | 91 | 5.4 |
| A1544-5.5 | 5.5 | 0.2165 | 82 | 139 | 91 | 5.5 |
| A1544-5.6 | 5.6 | 0.2205 | 82 | 139 | 91 | 5.6 |
| A1544-5.7 | 5.7 | 0.2244 | 82 | 139 | 91 | 5.7 |
| A1544-5.8 | 5.8 | 0.2283 | 82 | 139 | 91 | 5.8 |
| A1544-5.9 | 5.9 | 0.2323 | 82 | 139 | 91 | 5.9 |
| A1544-6 | 6 | 0.2362 | 82 | 139 | 91 | 6 |
| A1544-6.1 | 6.1 | 0.2402 | 86 | 148 | 97 | 6.1 |
| A1544-6.2 | 6.2 | 0.2441 | 86 | 148 | 97 | 6.2 |
| A1544-6.3 | 6.3 | 0.2480 | 86 | 148 | 97 | 6.3 |
| A1544-6.4 | 6.4 | 0.2520 | 86 | 148 | 97 | 6.4 |
| A1544-6.5 | 6.5 | 0.2559 | 86 | 148 | 97 | 6.5 |
| A1544-6.6 | 6.6 | 0.2598 | 86 | 148 | 97 | 6.6 |
| A1544-6.7 | 6.7 | 0.2638 | 86 | 148 | 97 | 6.7 |
| A1544-6.8 | 6.8 | 0.2677 | 90 | 156 | 102 | 6.8 |
| A1544-6.9 | 6.9 | 0.2717 | 90 | 156 | 102 | 6.9 |
| A1544-7 | 7 | 0.2756 | 90 | 156 | 102 | 7 |
| A1544-7.1 | 7.1 | 0.2795 | 90 | 156 | 102 | 7.1 |
| A1544-7.2 | 7.2 | 0.2835 | 90 | 156 | 102 | 7.2 |
| A1544-7.3 | 7.3 | 0.2874 | 90 | 156 | 102 | 7.3 |
| A1544-7.4 | 7.4 | 0.2913 | 90 | 156 | 102 | 7.4 |
| A1544-7.5 | 7.5 | 0.2953 | 90 | 156 | 102 | 7.5 |
| A1544-7.6 | 7.6 | 0.2992 | 96 | 165 | 109 | 7.6 |
| A1544-7.7 | 7.7 | 0.3031 | 96 | 165 | 109 | 7.7 |
| A1544-7.8 | 7.8 | 0.3071 | 96 | 165 | 109 | 7.8 |
| A1544-7.9 | 7.9 | 0.3110 | 96 | 165 | 109 | 7.9 |
| A1544-8 | 8 | 0.3150 | 96 | 165 | 109 | 8 |
| A1544-8.1 | 8.1 | 0.3189 | 96 | 165 | 109 | 8.1 |
| A1544-8.2 | 8.2 | 0.3228 | 96 | 165 | 109 | 8.2 |
| A1544-8.3 | 8.3 | 0.3268 | 96 | 165 | 109 | 8.3 |
| A1544-8.4 | 8.4 | 0.3307 | 96 | 165 | 109 | 8.4 |
| A1544-8.5 | 8.5 | 0.3346 | 96 | 165 | 109 | 8.5 |
| A1544-8.6 | 8.6 | 0.3386 | 100 | 175 | 115 | 8.6 |
| A1544-8.7 | 8.7 | 0.3425 | 100 | 175 | 115 | 8.7 |
| A1544-8.8 | 8.8 | 0.3465 | 100 | 175 | 115 | 8.8 |
| A1544-8.9 | 8.9 | 0.3504 | 100 | 175 | 115 | 8.9 |
| A1544-9 | 9 | 0.3543 | 100 | 175 | 115 | 9 |
| A1544-9.1 | 9.1 | 0.3583 | 100 | 175 | 115 | 9.1 |
| A1544-9.2 | 9.2 | 0.3622 | 100 | 175 | 115 | 9.2 |

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1544-9.3 | 9.3 | 0.3661 | 100 | 175 | 115 | 9.3 |
| A1544-9.4 | 9.4 | 0.3701 | 100 | 175 | 115 | 9.4 |
| A1544-9.5 | 9.5 | 0.3740 | 100 | 175 | 115 | 9.5 |
| A1544-9.6 | 9.6 | 0.3780 | 105 | 184 | 121 | 9.6 |
| A1544-9.7 | 9.7 | 0.3819 | 105 | 184 | 121 | 9.7 |
| A1544-9.8 | 9.8 | 0.3858 | 105 | 184 | 121 | 9.8 |
| A1544-9.9 | 9.9 | 0.3898 | 105 | 184 | 121 | 9.9 |
| A1544-10 | 10 | 0.3937 | 105 | 184 | 121 | 10 |
| A1544-10.2 | 10.2 | 0.4016 | 105 | 184 | 121 | 10.2 |
| A1544-10.5 | 10.5 | 0.4134 | 105 | 184 | 121 | 10.5 |
| A1544-10.8 | 10.8 | 0.4252 | 110 | 195 | 128 | 10.8 |
| A1544-11 | 11 | 0.4331 | 110 | 195 | 128 | 11 |
| A1544-11.2 | 11.2 | 0.4409 | 110 | 195 | 128 | 11.2 |
| A1544-11.5 | 11.5 | 0.4528 | 110 | 195 | 128 | 11.5 |
| A1544-11.8 | 11.8 | 0.4646 | 110 | 195 | 128 | 11.8 |
| A1544-12 | 12 | 0.4724 | 120 | 205 | 134 | 12 |

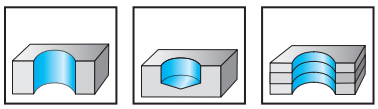
# HSS deep-hole drills, long

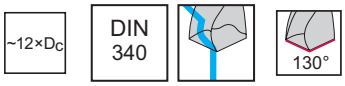
## A1522

## UFL®



– Uncoated up to 1.9 mm

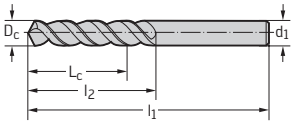





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ●● | ● | | ● |

B1

## Tool




Cylindrical shank

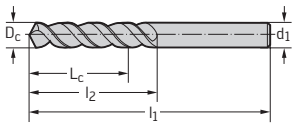
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1522-1 | 1 | 0.0394 | | 31 | 56 | 33 | 1 |
| A1522-NO60 | 1.016 | 0.0400 | No. 60 | 31 | 56 | 33 | 1.016 |
| A1522-NO59 | 1.041 | 0.0410 | No. 59 | 31 | 56 | 33 | 1.041 |
| A1522-NO58 | 1.067 | 0.0420 | No. 58 | 35 | 60 | 37 | 1.067 |
| A1522-NO57 | 1.092 | 0.0430 | No. 57 | 35 | 60 | 37 | 1.092 |
| A1522-1.1 | 1.1 | 0.0433 | | 35 | 60 | 37 | 1.1 |
| A1522-NO56 | 1.181 | 0.0465 | No. 56 | 39 | 65 | 41 | 1.181 |
| A1522-3/64IN | 1.191 | 0.0469 | 3/64" | 39 | 65 | 41 | 1.191 |
| A1522-1.2 | 1.2 | 0.0472 | | 39 | 65 | 41 | 1.2 |
| A1522-1.3 | 1.3 | 0.0512 | | 39 | 65 | 41 | 1.3 |
| A1522-NO55 | 1.321 | 0.0520 | No. 55 | 42 | 70 | 45 | 1.321 |
| A1522-NO54 | 1.397 | 0.0550 | No. 54 | 42 | 70 | 45 | 1.397 |
| A1522-1.4 | 1.4 | 0.0551 | | 42 | 70 | 45 | 1.4 |
| A1522-1.5 | 1.5 | 0.0591 | | 42 | 70 | 45 | 1.5 |
| A1522-NO53 | 1.511 | 0.0595 | No. 53 | 47 | 76 | 50 | 1.511 |
| A1522-1/16IN | 1.588 | 0.0625 | 1/16" | 47 | 76 | 50 | 1.588 |
| A1522-1.6 | 1.6 | 0.0630 | | 47 | 76 | 50 | 1.6 |
| A1522-NO52 | 1.613 | 0.0635 | No. 52 | 47 | 76 | 50 | 1.613 |
| A1522-1.7 | 1.7 | 0.0669 | | 47 | 76 | 50 | 1.7 |
| A1522-NO51 | 1.702 | 0.0670 | No. 51 | 50 | 80 | 53 | 1.702 |
| A1522-NO50 | 1.778 | 0.0700 | No. 50 | 50 | 80 | 53 | 1.778 |
| A1522-1.8 | 1.8 | 0.0709 | | 50 | 80 | 53 | 1.8 |
| A1522-NO49 | 1.854 | 0.0730 | No. 49 | 50 | 80 | 53 | 1.854 |
| A1522-1.9 | 1.9 | 0.0748 | | 50 | 80 | 53 | 1.9 |
| A1522-NO48 | 1.93 | 0.0760 | No. 48 | 52 | 85 | 56 | 1.93 |
| A1522-5/64IN | 1.984 | 0.0781 | 5/64" | 52 | 85 | 56 | 1.984 |
| A1522-NO47 | 1.994 | 0.0785 | No. 47 | 52 | 85 | 56 | 1.994 |
| A1522-2 | 2 | 0.0787 | | 52 | 85 | 56 | 2 |
| A1522-NO46 | 2.057 | 0.0810 | No. 46 | 52 | 85 | 56 | 2.057 |
| A1522-NO45 | 2.083 | 0.0820 | No. 45 | 52 | 85 | 56 | 2.083 |
| A1522-2.1 | 2.1 | 0.0827 | | 52 | 85 | 56 | 2.1 |
| A1522-NO44 | 2.184 | 0.0860 | No. 44 | 55 | 90 | 59 | 2.184 |
| A1522-2.2 | 2.2 | 0.0866 | | 55 | 90 | 59 | 2.2 |
| A1522-NO43 | 2.261 | 0.0890 | No. 43 | 55 | 90 | 59 | 2.261 |
| A1522-2.3 | 2.3 | 0.0906 | | 55 | 90 | 59 | 2.3 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

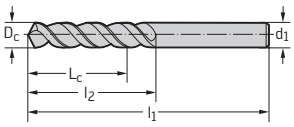
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1522-NO42 | 2.375 | 0.0935 | No. 42 | 58 | 95 | 62 | 2.375 |
| A1522-3/32IN | 2.381 | 0.0937 | 3/32" | 58 | 95 | 62 | 2.381 |
| A1522-2.4 | 2.4 | 0.0945 | | 58 | 95 | 62 | 2.4 |
| A1522-NO41 | 2.438 | 0.0960 | No. 41 | 58 | 95 | 62 | 2.438 |
| A1522-NO40 | 2.489 | 0.0980 | No. 40 | 58 | 95 | 62 | 2.489 |
| A1522-2.5 | 2.5 | 0.0984 | | 58 | 95 | 62 | 2.5 |
| A1522-NO39 | 2.527 | 0.0995 | No. 39 | 58 | 95 | 62 | 2.527 |
| A1522-NO38 | 2.578 | 0.1015 | No. 38 | 58 | 95 | 62 | 2.578 |
| A1522-2.6 | 2.6 | 0.1024 | | 58 | 95 | 62 | 2.6 |
| A1522-NO37 | 2.642 | 0.1040 | No. 37 | 58 | 95 | 62 | 2.642 |
| A1522-2.7 | 2.7 | 0.1063 | | 61 | 100 | 66 | 2.7 |
| A1522-NO36 | 2.705 | 0.1065 | No. 36 | 61 | 100 | 66 | 2.705 |
| A1522-7/64IN | 2.778 | 0.1094 | 7/64" | 61 | 100 | 66 | 2.778 |
| A1522-NO35 | 2.794 | 0.1100 | No. 35 | 61 | 100 | 66 | 2.794 |
| A1522-2.8 | 2.8 | 0.1102 | | 61 | 100 | 66 | 2.8 |
| A1522-NO34 | 2.819 | 0.1110 | No. 34 | 61 | 100 | 66 | 2.819 |
| A1522-NO33 | 2.87 | 0.1130 | No. 33 | 61 | 100 | 66 | 2.87 |
| A1522-2.9 | 2.9 | 0.1142 | | 61 | 100 | 66 | 2.9 |
| A1522-NO32 | 2.946 | 0.1160 | No. 32 | 61 | 100 | 66 | 2.946 |
| A1522-3 | 3 | 0.1181 | | 61 | 100 | 66 | 3 |
| A1522-NO31 | 3.048 | 0.1200 | No. 31 | 63 | 106 | 69 | 3.048 |
| A1522-3.1 | 3.1 | 0.1220 | | 63 | 106 | 69 | 3.1 |
| A1522-1/8IN | 3.175 | 0.1250 | 1/8" | 63 | 106 | 69 | 3.175 |
| A1522-3.2 | 3.2 | 0.1260 | | 63 | 106 | 69 | 3.2 |
| A1522-NO30 | 3.264 | 0.1285 | No. 30 | 63 | 106 | 69 | 3.264 |
| A1522-3.3 | 3.3 | 0.1299 | | 63 | 106 | 69 | 3.3 |
| A1522-3.4 | 3.4 | 0.1339 | | 67 | 112 | 73 | 3.4 |
| A1522-NO29 | 3.454 | 0.1360 | No. 29 | 67 | 112 | 73 | 3.454 |
| A1522-3.5 | 3.5 | 0.1378 | | 67 | 112 | 73 | 3.5 |
| A1522-NO28 | 3.569 | 0.1405 | No. 28 | 67 | 112 | 73 | 3.569 |
| A1522-9/64IN | 3.572 | 0.1406 | 9/64" | 67 | 112 | 73 | 3.572 |
| A1522-3.6 | 3.6 | 0.1417 | | 67 | 112 | 73 | 3.6 |
| A1522-NO27 | 3.658 | 0.1440 | No. 27 | 67 | 112 | 73 | 3.658 |
| A1522-3.7 | 3.7 | 0.1457 | | 67 | 112 | 73 | 3.7 |
| A1522-NO26 | 3.734 | 0.1470 | No. 26 | 67 | 112 | 73 | 3.734 |
| A1522-NO25 | 3.797 | 0.1495 | No. 25 | 71 | 119 | 78 | 3.797 |
| A1522-3.8 | 3.8 | 0.1496 | | 71 | 119 | 78 | 3.8 |
| A1522-NO24 | 3.861 | 0.1520 | No. 24 | 71 | 119 | 78 | 3.861 |
| A1522-3.9 | 3.9 | 0.1535 | | 71 | 119 | 78 | 3.9 |
| A1522-NO23 | 3.912 | 0.1540 | No. 23 | 71 | 119 | 78 | 3.912 |
| A1522-5/32IN | 3.969 | 0.1563 | 5/32" | 71 | 119 | 78 | 3.969 |
| A1522-NO22 | 3.988 | 0.1570 | No. 22 | 71 | 119 | 78 | 3.988 |
| A1522-4 | 4 | 0.1575 | | 71 | 119 | 78 | 4 |
| A1522-NO21 | 4.039 | 0.1590 | No. 21 | 71 | 119 | 78 | 4.039 |
| A1522-NO20 | 4.089 | 0.1610 | No. 20 | 71 | 119 | 78 | 4.089 |
| A1522-4.1 | 4.1 | 0.1614 | | 71 | 119 | 78 | 4.1 |
| A1522-4.2 | 4.2 | 0.1654 | | 71 | 119 | 78 | 4.2 |
| A1522-NO19 | 4.216 | 0.1660 | No. 19 | 71 | 119 | 78 | 4.216 |

## Tool

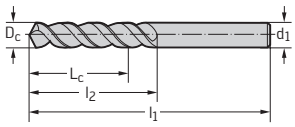



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1522-4.3 | 4.3 | 0.1693 | | 74 | 126 | 82 | 4.3 |
| A1522-NO18 | 4.305 | 0.1695 | No. 18 | 74 | 126 | 82 | 4.305 |
| A1522-11/64IN | 4.366 | 0.1719 | 11/64" | 74 | 126 | 82 | 4.366 |
| A1522-NO17 | 4.394 | 0.1730 | No. 17 | 74 | 126 | 82 | 4.394 |
| A1522-4.4 | 4.4 | 0.1732 | | 74 | 126 | 82 | 4.4 |
| A1522-NO16 | 4.496 | 0.1770 | No. 16 | 74 | 126 | 82 | 4.496 |
| A1522-4.5 | 4.5 | 0.1772 | | 74 | 126 | 82 | 4.5 |
| A1522-NO15 | 4.572 | 0.1800 | No. 15 | 74 | 126 | 82 | 4.572 |
| A1522-4.6 | 4.6 | 0.1811 | | 74 | 126 | 82 | 4.6 |
| A1522-NO14 | 4.623 | 0.1820 | No. 14 | 74 | 126 | 82 | 4.623 |
| A1522-NO13 | 4.699 | 0.1850 | No. 13 | 74 | 126 | 82 | 4.699 |
| A1522-4.7 | 4.7 | 0.1850 | | 74 | 126 | 82 | 4.7 |
| A1522-3/16IN | 4.763 | 0.1875 | 3/16" | 79 | 132 | 87 | 4.763 |
| A1522-4.8 | 4.8 | 0.1890 | | 79 | 132 | 87 | 4.8 |
| A1522-NO11 | 4.851 | 0.1910 | No. 11 | 79 | 132 | 87 | 4.851 |
| A1522-4.9 | 4.9 | 0.1929 | | 79 | 132 | 87 | 4.9 |
| A1522-NO10 | 4.915 | 0.1935 | No. 10 | 79 | 132 | 87 | 4.915 |
| A1522-NO9 | 4.978 | 0.1960 | No. 09 | 79 | 132 | 87 | 4.978 |
| A1522-5 | 5 | 0.1969 | | 79 | 132 | 87 | 5 |
| A1522-NO8 | 5.055 | 0.1990 | No. 08 | 79 | 132 | 87 | 5.055 |
| A1522-5.1 | 5.1 | 0.2008 | | 79 | 132 | 87 | 5.1 |
| A1522-NO7 | 5.105 | 0.2010 | No. 07 | 79 | 132 | 87 | 5.105 |
| A1522-13/64IN | 5.159 | 0.2031 | 13/64" | 79 | 132 | 87 | 5.159 |
| A1522-NO6 | 5.182 | 0.2040 | No. 06 | 79 | 132 | 87 | 5.182 |
| A1522-5.2 | 5.2 | 0.2047 | | 79 | 132 | 87 | 5.2 |
| A1522-NO5 | 5.22 | 0.2055 | No. 05 | 79 | 132 | 87 | 5.22 |
| A1522-5.3 | 5.3 | 0.2087 | | 79 | 132 | 87 | 5.3 |
| A1522-NO4 | 5.309 | 0.2090 | No. 04 | 82 | 139 | 91 | 5.309 |
| A1522-5.4 | 5.4 | 0.2126 | | 82 | 139 | 91 | 5.4 |
| A1522-NO3 | 5.41 | 0.2130 | No. 03 | 82 | 139 | 91 | 5.41 |
| A1522-5.5 | 5.5 | 0.2165 | | 82 | 139 | 91 | 5.5 |
| A1522-7/32IN | 5.556 | 0.2187 | 7/32" | 82 | 139 | 91 | 5.556 |
| A1522-5.6 | 5.6 | 0.2205 | | 82 | 139 | 91 | 5.6 |
| A1522-NO2 | 5.613 | 0.2210 | No. 02 | 82 | 139 | 91 | 5.613 |
| A1522-5.7 | 5.7 | 0.2244 | | 82 | 139 | 91 | 5.7 |
| A1522-NO1 | 5.791 | 0.2280 | No. 01 | 82 | 139 | 91 | 5.791 |
| A1522-5.8 | 5.8 | 0.2283 | | 82 | 139 | 91 | 5.8 |
| A1522-5.9 | 5.9 | 0.2323 | | 82 | 139 | 91 | 5.9 |
| A1522-15/64IN | 5.953 | 0.2344 | 15/64" | 82 | 139 | 91 | 5.953 |
| A1522-6 | 6 | 0.2362 | | 82 | 139 | 91 | 6 |
| A1522-6.1 | 6.1 | 0.2402 | | 86 | 148 | 97 | 6.1 |
| A1522-6.2 | 6.2 | 0.2441 | | 86 | 148 | 97 | 6.2 |
| A1522-6.3 | 6.3 | 0.2480 | | 86 | 148 | 97 | 6.3 |
| A1522-1/4IN | 6.35 | 0.2500 | 1/4" | 86 | 148 | 97 | 6.35 |
| A1522-6.4 | 6.4 | 0.2520 | | 86 | 148 | 97 | 6.4 |
| A1522-6.5 | 6.5 | 0.2559 | | 86 | 148 | 97 | 6.5 |
| A1522-6.6 | 6.6 | 0.2598 | | 86 | 148 | 97 | 6.6 |
| A1522-6.7 | 6.7 | 0.2638 | | 86 | 148 | 97 | 6.7 |

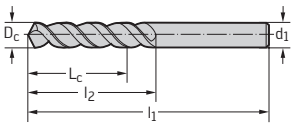
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1522-17/64IN | 6.747 | 0.2656 | 17/64" | 90 | 156 | 102 | 6.747 |
| A1522-6.8 | 6.8 | 0.2677 | | 90 | 156 | 102 | 6.8 |
| A1522-6.9 | 6.9 | 0.2717 | | 90 | 156 | 102 | 6.9 |
| A1522-7 | 7 | 0.2756 | | 90 | 156 | 102 | 7 |
| A1522-7.1 | 7.1 | 0.2795 | | 90 | 156 | 102 | 7.1 |
| A1522-9/32IN | 7.144 | 0.2813 | 9/32" | 90 | 156 | 102 | 7.144 |
| A1522-7.2 | 7.2 | 0.2835 | | 90 | 156 | 102 | 7.2 |
| A1522-7.3 | 7.3 | 0.2874 | | 90 | 156 | 102 | 7.3 |
| A1522-7.4 | 7.4 | 0.2913 | | 90 | 156 | 102 | 7.4 |
| A1522-7.5 | 7.5 | 0.2953 | | 90 | 156 | 102 | 7.5 |
| A1522-19/64IN | 7.541 | 0.2969 | 19/64" | 96 | 165 | 109 | 7.541 |
| A1522-7.6 | 7.6 | 0.2992 | | 96 | 165 | 109 | 7.6 |
| A1522-7.7 | 7.7 | 0.3031 | | 96 | 165 | 109 | 7.7 |
| A1522-7.8 | 7.8 | 0.3071 | | 96 | 165 | 109 | 7.8 |
| A1522-7.9 | 7.9 | 0.3110 | | 96 | 165 | 109 | 7.9 |
| A1522-5/16IN | 7.938 | 0.3125 | 5/16" | 96 | 165 | 109 | 7.938 |
| A1522-8 | 8 | 0.3150 | | 96 | 165 | 109 | 8 |
| A1522-8.1 | 8.1 | 0.3189 | | 96 | 165 | 109 | 8.1 |
| A1522-8.2 | 8.2 | 0.3228 | | 96 | 165 | 109 | 8.2 |
| A1522-8.3 | 8.3 | 0.3268 | | 96 | 165 | 109 | 8.3 |
| A1522-21/64IN | 8.334 | 0.3281 | 21/64" | 96 | 165 | 109 | 8.334 |
| A1522-8.4 | 8.4 | 0.3307 | | 96 | 165 | 109 | 8.4 |
| A1522-8.5 | 8.5 | 0.3346 | | 96 | 165 | 109 | 8.5 |
| A1522-8.6 | 8.6 | 0.3386 | | 100 | 175 | 115 | 8.6 |
| A1522-8.7 | 8.7 | 0.3425 | | 100 | 175 | 115 | 8.7 |
| A1522-11/32IN | 8.731 | 0.3437 | 11/32" | 100 | 175 | 115 | 8.731 |
| A1522-8.8 | 8.8 | 0.3465 | | 100 | 175 | 115 | 8.8 |
| A1522-8.9 | 8.9 | 0.3504 | | 100 | 175 | 115 | 8.9 |
| A1522-9 | 9 | 0.3543 | | 100 | 175 | 115 | 9 |
| A1522-9.1 | 9.1 | 0.3583 | | 100 | 175 | 115 | 9.1 |
| A1522-23/64IN | 9.128 | 0.3594 | 23/64" | 100 | 175 | 115 | 9.128 |
| A1522-9.2 | 9.2 | 0.3622 | | 100 | 175 | 115 | 9.2 |
| A1522-9.3 | 9.3 | 0.3661 | | 100 | 175 | 115 | 9.3 |
| A1522-9.4 | 9.4 | 0.3701 | | 100 | 175 | 115 | 9.4 |
| A1522-9.5 | 9.5 | 0.3740 | | 100 | 175 | 115 | 9.5 |
| A1522-3/8IN | 9.525 | 0.3750 | 3/8" | 105 | 184 | 121 | 9.525 |
| A1522-9.6 | 9.6 | 0.3780 | | 105 | 184 | 121 | 9.6 |
| A1522-9.7 | 9.7 | 0.3819 | | 105 | 184 | 121 | 9.7 |
| A1522-9.8 | 9.8 | 0.3858 | | 105 | 184 | 121 | 9.8 |
| A1522-9.9 | 9.9 | 0.3898 | | 105 | 184 | 121 | 9.9 |
| A1522-25/64IN | 9.922 | 0.3906 | 25/64" | 105 | 184 | 121 | 9.922 |
| A1522-10 | 10 | 0.3937 | | 105 | 184 | 121 | 10 |
| A1522-10.2 | 10.2 | 0.4016 | | 105 | 184 | 121 | 10.2 |
| A1522-13/32IN | 10.319 | 0.4063 | 13/32" | 105 | 184 | 121 | 10.319 |
| A1522-10.5 | 10.5 | 0.4134 | | 105 | 184 | 121 | 10.5 |
| A1522-27/64IN | 10.716 | 0.4219 | 27/64" | 110 | 195 | 128 | 10.716 |
| A1522-10.8 | 10.8 | 0.4252 | | 110 | 195 | 128 | 10.8 |
| A1522-11 | 11 | 0.4331 | | 110 | 195 | 128 | 11 |

## Tool




Cylindrical shank

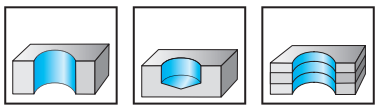
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1522-7/16IN | 11.113 | 0.4375 | 7/16" | 110 | 195 | 128 | 11.113 |
| A1522-11.2 | 11.2 | 0.4409 | | 110 | 195 | 128 | 11.2 |
| A1522-11.5 | 11.5 | 0.4528 | | 110 | 195 | 128 | 11.5 |
| A1522-29/64IN | 11.509 | 0.4531 | 29/64" | 110 | 195 | 128 | 11.509 |
| A1522-11.8 | 11.8 | 0.4646 | | 110 | 195 | 128 | 11.8 |
| A1522-15/32IN | 11.906 | 0.4687 | 15/32" | 120 | 205 | 134 | 11.906 |
| A1522-12 | 12 | 0.4724 | | 120 | 205 | 134 | 12 |
| A1522-31/64IN | 12.303 | 0.4844 | 31/64" | 120 | 205 | 134 | 12.303 |
| A1522-1/2IN | 12.7 | 0.5000 | 1/2" | 120 | 205 | 134 | 12.7 |
| A1522-9/16IN | 14.288 | 0.5625 | 9/16" | 129 | 220 | 144 | 14.288 |
| A1522-37/64IN | 14.684 | 0.5781 | 37/64" | 129 | 220 | 144 | 14.684 |
| A1522-39/64IN | 15.478 | 0.6094 | 39/64" | 133 | 227 | 149 | 15.478 |
| A1522-5/8IN | 15.875 | 0.6250 | 5/8" | 133 | 227 | 149 | 15.875 |
| A1522-21/32IN | 16.669 | 0.6563 | | 137 | 235 | 154 | 16.669 |
| A1522-11/16IN | 17.463 | 0.6875 | | 140 | 241 | 158 | 17.463 |
| A1522-3/4IN | 19.05 | 0.7500 | 3/4" | 146 | 254 | 166 | 19.05 |
| A1522-25/32IN | 19.844 | 0.7813 | | 146 | 254 | 166 | 19.844 |
| A1522-13/16IN | 20.638 | 0.8125 | | 149 | 261 | 171 | 20.638 |
| A1522-7/8IN | 22.225 | 0.8750 | 7/8" | 153 | 268 | 176 | 22.225 |

# HSS twist drills, long

## A1511



– Uncoated up to 3 mm
– Type N

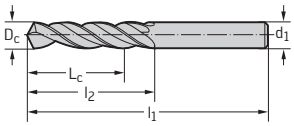


~12×$D_c$ | DIN 340 | 118°

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

B1

### Tool




Cylindrical shank

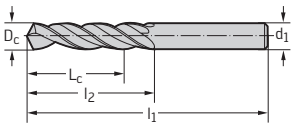
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1511-0.5 | 0.5 | 0.0197 | 11.2 | 32 | 12 | 0.5 |
| A1511-0.6 | 0.6 | 0.0236 | 14.1 | 35 | 15 | 0.6 |
| A1511-0.7 | 0.7 | 0.0276 | 19.8 | 42 | 21 | 0.7 |
| A1511-0.8 | 0.8 | 0.0315 | 23.7 | 46 | 25 | 0.8 |
| A1511-0.9 | 0.9 | 0.0354 | 27.5 | 51 | 29 | 0.9 |
| A1511-1 | 1 | 0.0394 | 31 | 56 | 33 | 1 |
| A1511-1.1 | 1.1 | 0.0433 | 35 | 60 | 37 | 1.1 |
| A1511-1.2 | 1.2 | 0.0472 | 39 | 65 | 41 | 1.2 |
| A1511-1.3 | 1.3 | 0.0512 | 39 | 65 | 41 | 1.3 |
| A1511-1.4 | 1.4 | 0.0551 | 42 | 70 | 45 | 1.4 |
| A1511-1.5 | 1.5 | 0.0591 | 42 | 70 | 45 | 1.5 |
| A1511-1.6 | 1.6 | 0.0630 | 47 | 76 | 50 | 1.6 |
| A1511-1.65 | 1.65 | 0.0650 | 47 | 76 | 50 | 1.65 |
| A1511-1.7 | 1.7 | 0.0669 | 47 | 76 | 50 | 1.7 |
| A1511-1.75 | 1.75 | 0.0689 | 50 | 80 | 53 | 1.75 |
| A1511-1.8 | 1.8 | 0.0709 | 50 | 80 | 53 | 1.8 |
| A1511-1.9 | 1.9 | 0.0748 | 50 | 80 | 53 | 1.9 |
| A1511-2 | 2 | 0.0787 | 52 | 85 | 56 | 2 |
| A1511-2.05 | 2.05 | 0.0807 | 52 | 85 | 56 | 2.05 |
| A1511-2.1 | 2.1 | 0.0827 | 52 | 85 | 56 | 2.1 |
| A1511-2.2 | 2.2 | 0.0866 | 55 | 90 | 59 | 2.2 |
| A1511-2.25 | 2.25 | 0.0886 | 55 | 90 | 59 | 2.25 |
| A1511-2.3 | 2.3 | 0.0906 | 55 | 90 | 59 | 2.3 |
| A1511-2.4 | 2.4 | 0.0945 | 58 | 95 | 62 | 2.4 |
| A1511-2.5 | 2.5 | 0.0984 | 58 | 95 | 62 | 2.5 |
| A1511-2.6 | 2.6 | 0.1024 | 58 | 95 | 62 | 2.6 |
| A1511-2.7 | 2.7 | 0.1063 | 61 | 100 | 66 | 2.7 |
| A1511-2.8 | 2.8 | 0.1102 | 61 | 100 | 66 | 2.8 |
| A1511-2.9 | 2.9 | 0.1142 | 61 | 100 | 66 | 2.9 |
| A1511-3 | 3 | 0.1181 | 61 | 100 | 66 | 3 |
| A1511-3.1 | 3.1 | 0.1220 | 63 | 106 | 69 | 3.1 |
| A1511-3.15 | 3.15 | 0.1240 | 63 | 106 | 69 | 3.15 |
| A1511-3.2 | 3.2 | 0.1260 | 63 | 106 | 69 | 3.2 |
| A1511-3.3 | 3.3 | 0.1299 | 63 | 106 | 69 | 3.3 |
| A1511-3.4 | 3.4 | 0.1339 | 67 | 112 | 73 | 3.4 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool

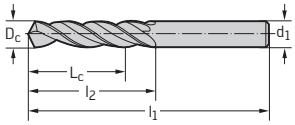



Cylindrical shank

B1

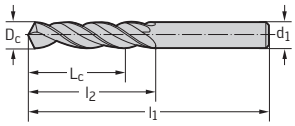
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1511-3.5 | 3.5 | 0.1378 | 67 | 112 | 73 | 3.5 |
| A1511-3.6 | 3.6 | 0.1417 | 67 | 112 | 73 | 3.6 |
| A1511-3.7 | 3.7 | 0.1457 | 67 | 112 | 73 | 3.7 |
| A1511-3.8 | 3.8 | 0.1496 | 71 | 119 | 78 | 3.8 |
| A1511-3.9 | 3.9 | 0.1535 | 71 | 119 | 78 | 3.9 |
| A1511-4 | 4 | 0.1575 | 71 | 119 | 78 | 4 |
| A1511-4.1 | 4.1 | 0.1614 | 71 | 119 | 78 | 4.1 |
| A1511-4.2 | 4.2 | 0.1654 | 71 | 119 | 78 | 4.2 |
| A1511-4.25 | 4.25 | 0.1673 | 71 | 119 | 78 | 4.25 |
| A1511-4.3 | 4.3 | 0.1693 | 74 | 126 | 82 | 4.3 |
| A1511-4.4 | 4.4 | 0.1732 | 74 | 126 | 82 | 4.4 |
| A1511-4.5 | 4.5 | 0.1772 | 74 | 126 | 82 | 4.5 |
| A1511-4.6 | 4.6 | 0.1811 | 74 | 126 | 82 | 4.6 |
| A1511-4.7 | 4.7 | 0.1850 | 74 | 126 | 82 | 4.7 |
| A1511-4.75 | 4.75 | 0.1870 | 74 | 126 | 82 | 4.75 |
| A1511-4.8 | 4.8 | 0.1890 | 79 | 132 | 87 | 4.8 |
| A1511-4.9 | 4.9 | 0.1929 | 79 | 132 | 87 | 4.9 |
| A1511-5 | 5 | 0.1969 | 79 | 132 | 87 | 5 |
| A1511-5.1 | 5.1 | 0.2008 | 79 | 132 | 87 | 5.1 |
| A1511-5.2 | 5.2 | 0.2047 | 79 | 132 | 87 | 5.2 |
| A1511-5.25 | 5.25 | 0.2067 | 79 | 132 | 87 | 5.25 |
| A1511-5.3 | 5.3 | 0.2087 | 79 | 132 | 87 | 5.3 |
| A1511-5.4 | 5.4 | 0.2126 | 82 | 139 | 91 | 5.4 |
| A1511-5.5 | 5.5 | 0.2165 | 82 | 139 | 91 | 5.5 |
| A1511-5.6 | 5.6 | 0.2205 | 82 | 139 | 91 | 5.6 |
| A1511-5.7 | 5.7 | 0.2244 | 82 | 139 | 91 | 5.7 |
| A1511-5.75 | 5.75 | 0.2264 | 82 | 139 | 91 | 5.75 |
| A1511-5.8 | 5.8 | 0.2283 | 82 | 139 | 91 | 5.8 |
| A1511-5.9 | 5.9 | 0.2323 | 82 | 139 | 91 | 5.9 |
| A1511-6 | 6 | 0.2362 | 82 | 139 | 91 | 6 |
| A1511-6.1 | 6.1 | 0.2402 | 86 | 148 | 97 | 6.1 |
| A1511-6.2 | 6.2 | 0.2441 | 86 | 148 | 97 | 6.2 |
| A1511-6.3 | 6.3 | 0.2480 | 86 | 148 | 97 | 6.3 |
| A1511-6.4 | 6.4 | 0.2520 | 86 | 148 | 97 | 6.4 |
| A1511-6.5 | 6.5 | 0.2559 | 86 | 148 | 97 | 6.5 |
| A1511-6.6 | 6.6 | 0.2598 | 86 | 148 | 97 | 6.6 |
| A1511-6.7 | 6.7 | 0.2638 | 86 | 148 | 97 | 6.7 |
| A1511-6.75 | 6.75 | 0.2657 | 90 | 156 | 102 | 6.75 |
| A1511-6.8 | 6.8 | 0.2677 | 90 | 156 | 102 | 6.8 |
| A1511-6.9 | 6.9 | 0.2717 | 90 | 156 | 102 | 6.9 |
| A1511-7 | 7 | 0.2756 | 90 | 156 | 102 | 7 |
| A1511-7.1 | 7.1 | 0.2795 | 90 | 156 | 102 | 7.1 |
| A1511-7.2 | 7.2 | 0.2835 | 90 | 156 | 102 | 7.2 |
| A1511-7.25 | 7.25 | 0.2854 | 90 | 156 | 102 | 7.25 |
| A1511-7.3 | 7.3 | 0.2874 | 90 | 156 | 102 | 7.3 |
| A1511-7.4 | 7.4 | 0.2913 | 90 | 156 | 102 | 7.4 |
| A1511-7.5 | 7.5 | 0.2953 | 90 | 156 | 102 | 7.5 |
| A1511-7.6 | 7.6 | 0.2992 | 96 | 165 | 109 | 7.6 |

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1511-7.7 | 7.7 | 0.3031 | 96 | 165 | 109 | 7.7 |
| A1511-7.8 | 7.8 | 0.3071 | 96 | 165 | 109 | 7.8 |
| A1511-7.9 | 7.9 | 0.3110 | 96 | 165 | 109 | 7.9 |
| A1511-8 | 8 | 0.3150 | 96 | 165 | 109 | 8 |
| A1511-8.1 | 8.1 | 0.3189 | 96 | 165 | 109 | 8.1 |
| A1511-8.2 | 8.2 | 0.3228 | 96 | 165 | 109 | 8.2 |
| A1511-8.3 | 8.3 | 0.3268 | 96 | 165 | 109 | 8.3 |
| A1511-8.4 | 8.4 | 0.3307 | 96 | 165 | 109 | 8.4 |
| A1511-8.5 | 8.5 | 0.3346 | 96 | 165 | 109 | 8.5 |
| A1511-8.6 | 8.6 | 0.3386 | 100 | 175 | 115 | 8.6 |
| A1511-8.7 | 8.7 | 0.3425 | 100 | 175 | 115 | 8.7 |
| A1511-8.75 | 8.75 | 0.3445 | 100 | 175 | 115 | 8.75 |
| A1511-8.8 | 8.8 | 0.3465 | 100 | 175 | 115 | 8.8 |
| A1511-8.9 | 8.9 | 0.3504 | 100 | 175 | 115 | 8.9 |
| A1511-9 | 9 | 0.3543 | 100 | 175 | 115 | 9 |
| A1511-9.1 | 9.1 | 0.3583 | 100 | 175 | 115 | 9.1 |
| A1511-9.2 | 9.2 | 0.3622 | 100 | 175 | 115 | 9.2 |
| A1511-9.25 | 9.25 | 0.3642 | 100 | 175 | 115 | 9.25 |
| A1511-9.3 | 9.3 | 0.3661 | 100 | 175 | 115 | 9.3 |
| A1511-9.4 | 9.4 | 0.3701 | 100 | 175 | 115 | 9.4 |
| A1511-9.5 | 9.5 | 0.3740 | 100 | 175 | 115 | 9.5 |
| A1511-9.6 | 9.6 | 0.3780 | 105 | 184 | 121 | 9.6 |
| A1511-9.7 | 9.7 | 0.3819 | 105 | 184 | 121 | 9.7 |
| A1511-9.75 | 9.75 | 0.3839 | 105 | 184 | 121 | 9.75 |
| A1511-9.8 | 9.8 | 0.3858 | 105 | 184 | 121 | 9.8 |
| A1511-9.9 | 9.9 | 0.3898 | 105 | 184 | 121 | 9.9 |
| A1511-10 | 10 | 0.3937 | 105 | 184 | 121 | 10 |
| A1511-10.1 | 10.1 | 0.3976 | 105 | 184 | 121 | 10.1 |
| A1511-10.2 | 10.2 | 0.4016 | 105 | 184 | 121 | 10.2 |
| A1511-10.3 | 10.3 | 0.4055 | 105 | 184 | 121 | 10.3 |
| A1511-10.4 | 10.4 | 0.4094 | 105 | 184 | 121 | 10.4 |
| A1511-10.5 | 10.5 | 0.4134 | 105 | 184 | 121 | 10.5 |
| A1511-10.7 | 10.7 | 0.4213 | 110 | 195 | 128 | 10.7 |
| A1511-10.8 | 10.8 | 0.4252 | 110 | 195 | 128 | 10.8 |
| A1511-11 | 11 | 0.4331 | 110 | 195 | 128 | 11 |
| A1511-11.5 | 11.5 | 0.4528 | 110 | 195 | 128 | 11.5 |
| A1511-11.8 | 11.8 | 0.4646 | 110 | 195 | 128 | 11.8 |
| A1511-12 | 12 | 0.4724 | 120 | 205 | 134 | 12 |
| A1511-12.5 | 12.5 | 0.4921 | 120 | 205 | 134 | 12.5 |
| A1511-13 | 13 | 0.5118 | 120 | 205 | 134 | 13 |
| A1511-13.5 | 13.5 | 0.5315 | 126 | 214 | 140 | 13.5 |
| A1511-14 | 14 | 0.5512 | 126 | 214 | 140 | 14 |
| A1511-14.5 | 14.5 | 0.5709 | 129 | 220 | 144 | 14.5 |
| A1511-15 | 15 | 0.5906 | 129 | 220 | 144 | 15 |
| A1511-15.5 | 15.5 | 0.6102 | 133 | 227 | 149 | 15.5 |
| A1511-16 | 16 | 0.6299 | 133 | 227 | 149 | 16 |
| A1511-17 | 17 | 0.6693 | 137 | 235 | 154 | 17 |
| A1511-18 | 18 | 0.7087 | 140 | 241 | 158 | 18 |




Cylindrical shank

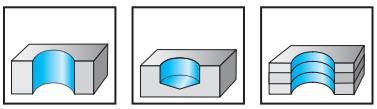
| | | | | | | |
|---|---|---|---|---|---|---|
| A1511-19 | 19 | 0.7480 | 143 | 247 | 162 | 19 |
| A1511-20 | 20 | 0.7874 | 146 | 254 | 166 | 20 |
| A1511-21 | 21 | 0.8268 | 149 | 261 | 171 | 21 |
| A1511-22 | 22 | 0.8661 | 153 | 268 | 176 | 22 |

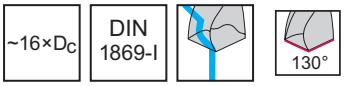
B1

# HSS deep-hole drills, extra long

## A1622

## UFL®



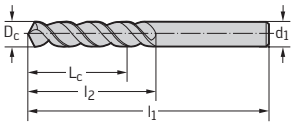


~16×$D_c$ | DIN 1869-I | 130°

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

B1

### Tool




Cylindrical shank

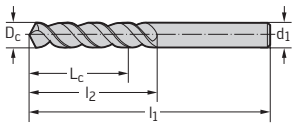
| Designation | $D_c$ mm | $D_c$ in | $D_c$ Inch/Nr | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1622-2 | 2 | 0.0787 | | 81 | 125 | 85 | 2 |
| A1622-2.1 | 2.1 | 0.0827 | | 81 | 125 | 85 | 2.1 |
| A1622-2.2 | 2.2 | 0.0866 | | 86 | 135 | 90 | 2.2 |
| A1622-2.3 | 2.3 | 0.0906 | | 86 | 135 | 90 | 2.3 |
| A1622-3/32IN | 2.381 | 0.0937 | 3/32" | 91 | 140 | 95 | 2.381 |
| A1622-2.4 | 2.4 | 0.0945 | | 91 | 140 | 95 | 2.4 |
| A1622-NO40 | 2.489 | 0.0980 | No. 40 | 91 | 140 | 95 | 2.489 |
| A1622-2.5 | 2.5 | 0.0984 | | 91 | 140 | 95 | 2.5 |
| A1622-NO39 | 2.527 | 0.0995 | No. 39 | 91 | 140 | 95 | 2.527 |
| A1622-NO38 | 2.578 | 0.1015 | No. 38 | 91 | 140 | 95 | 2.578 |
| A1622-2.6 | 2.6 | 0.1024 | | 91 | 140 | 95 | 2.6 |
| A1622-NO37 | 2.642 | 0.1040 | No. 37 | 91 | 140 | 95 | 2.642 |
| A1622-2.7 | 2.7 | 0.1063 | | 95 | 150 | 100 | 2.7 |
| A1622-NO36 | 2.705 | 0.1065 | No. 36 | 95 | 150 | 100 | 2.705 |
| A1622-7/64IN | 2.778 | 0.1094 | 7/64" | 95 | 150 | 100 | 2.778 |
| A1622-NO35 | 2.794 | 0.1100 | No. 35 | 95 | 150 | 100 | 2.794 |
| A1622-2.8 | 2.8 | 0.1102 | | 95 | 150 | 100 | 2.8 |
| A1622-NO34 | 2.819 | 0.1110 | No. 34 | 95 | 150 | 100 | 2.819 |
| A1622-NO33 | 2.87 | 0.1130 | No. 33 | 95 | 150 | 100 | 2.87 |
| A1622-2.9 | 2.9 | 0.1142 | | 95 | 150 | 100 | 2.9 |
| A1622-NO32 | 2.946 | 0.1160 | No. 32 | 95 | 150 | 100 | 2.946 |
| A1622-3 | 3 | 0.1181 | | 95 | 150 | 100 | 3 |
| A1622-NO31 | 3.048 | 0.1200 | No. 31 | 99 | 155 | 105 | 3.048 |
| A1622-3.1 | 3.1 | 0.1220 | | 99 | 155 | 105 | 3.1 |
| A1622-1/8IN | 3.175 | 0.1250 | 1/8" | 99 | 155 | 105 | 3.175 |
| A1622-3.2 | 3.2 | 0.1260 | | 99 | 155 | 105 | 3.2 |
| A1622-NO30 | 3.264 | 0.1285 | No. 30 | 99 | 155 | 105 | 3.264 |
| A1622-3.3 | 3.3 | 0.1299 | | 99 | 155 | 105 | 3.3 |
| A1622-3.4 | 3.4 | 0.1339 | | 109 | 165 | 115 | 3.4 |
| A1622-NO29 | 3.454 | 0.1360 | No. 29 | 109 | 165 | 115 | 3.454 |
| A1622-3.5 | 3.5 | 0.1378 | | 109 | 165 | 115 | 3.5 |
| A1622-NO28 | 3.569 | 0.1405 | No. 28 | 109 | 165 | 115 | 3.569 |
| A1622-9/64IN | 3.572 | 0.1406 | 9/64" | 109 | 165 | 115 | 3.572 |
| A1622-3.6 | 3.6 | 0.1417 | | 109 | 165 | 115 | 3.6 |
| A1622-NO27 | 3.658 | 0.1440 | No. 27 | 109 | 165 | 115 | 3.658 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

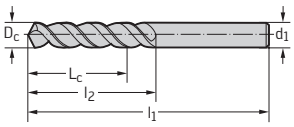
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1622-3.7 | 3.7 | 0.1457 | | 109 | 165 | 115 | 3.7 |
| A1622-NO26 | 3.734 | 0.1470 | No. 26 | 109 | 165 | 115 | 3.734 |
| A1622-NO25 | 3.797 | 0.1495 | No. 25 | 113 | 175 | 120 | 3.797 |
| A1622-3.8 | 3.8 | 0.1496 | | 113 | 175 | 120 | 3.8 |
| A1622-NO24 | 3.861 | 0.1520 | No. 24 | 113 | 175 | 120 | 3.861 |
| A1622-3.9 | 3.9 | 0.1535 | | 113 | 175 | 120 | 3.9 |
| A1622-NO23 | 3.912 | 0.1540 | No. 23 | 113 | 175 | 120 | 3.912 |
| A1622-5/32IN | 3.969 | 0.1563 | 5/32" | 113 | 175 | 120 | 3.969 |
| A1622-NO22 | 3.988 | 0.1570 | No. 22 | 113 | 175 | 120 | 3.988 |
| A1622-4 | 4 | 0.1575 | | 113 | 175 | 120 | 4 |
| A1622-NO21 | 4.039 | 0.1590 | No. 21 | 113 | 175 | 120 | 4.039 |
| A1622-NO20 | 4.089 | 0.1610 | No. 20 | 113 | 175 | 120 | 4.089 |
| A1622-4.1 | 4.1 | 0.1614 | | 113 | 175 | 120 | 4.1 |
| A1622-4.2 | 4.2 | 0.1654 | | 113 | 175 | 120 | 4.2 |
| A1622-NO19 | 4.216 | 0.1660 | No. 19 | 113 | 175 | 120 | 4.216 |
| A1622-4.3 | 4.3 | 0.1693 | | 117 | 185 | 125 | 4.3 |
| A1622-NO18 | 4.305 | 0.1695 | No. 18 | 117 | 185 | 125 | 4.305 |
| A1622-11/64IN | 4.366 | 0.1719 | 11/64" | 117 | 185 | 125 | 4.366 |
| A1622-NO17 | 4.394 | 0.1730 | No. 17 | 117 | 185 | 125 | 4.394 |
| A1622-4.4 | 4.4 | 0.1732 | | 117 | 185 | 125 | 4.4 |
| A1622-NO16 | 4.496 | 0.1770 | No. 16 | 117 | 185 | 125 | 4.496 |
| A1622-4.5 | 4.5 | 0.1772 | | 117 | 185 | 125 | 4.5 |
| A1622-NO15 | 4.572 | 0.1800 | No. 15 | 117 | 185 | 125 | 4.572 |
| A1622-4.6 | 4.6 | 0.1811 | | 117 | 185 | 125 | 4.6 |
| A1622-NO14 | 4.623 | 0.1820 | No. 14 | 117 | 185 | 125 | 4.623 |
| A1622-NO13 | 4.699 | 0.1850 | No. 13 | 117 | 185 | 125 | 4.699 |
| A1622-4.7 | 4.7 | 0.1850 | | 117 | 185 | 125 | 4.7 |
| A1622-3/16IN | 4.763 | 0.1875 | 3/16" | 127 | 195 | 135 | 4.763 |
| A1622-4.8 | 4.8 | 0.1890 | | 127 | 195 | 135 | 4.8 |
| A1622-NO12 | 4.801 | 0.1890 | No. 12 | 127 | 195 | 135 | 4.801 |
| A1622-NO11 | 4.851 | 0.1910 | No. 11 | 127 | 195 | 135 | 4.851 |
| A1622-4.9 | 4.9 | 0.1929 | | 127 | 195 | 135 | 4.9 |
| A1622-NO10 | 4.915 | 0.1935 | No. 10 | 127 | 195 | 135 | 4.915 |
| A1622-NO9 | 4.978 | 0.1960 | No. 09 | 127 | 195 | 135 | 4.978 |
| A1622-5 | 5 | 0.1969 | | 127 | 195 | 135 | 5 |
| A1622-NO8 | 5.055 | 0.1990 | No. 08 | 127 | 195 | 135 | 5.055 |
| A1622-5.1 | 5.1 | 0.2008 | | 127 | 195 | 135 | 5.1 |
| A1622-NO7 | 5.105 | 0.2010 | No. 07 | 127 | 195 | 135 | 5.105 |
| A1622-13/64IN | 5.159 | 0.2031 | 13/64" | 127 | 195 | 135 | 5.159 |
| A1622-NO6 | 5.182 | 0.2040 | No. 06 | 127 | 195 | 135 | 5.182 |
| A1622-5.2 | 5.2 | 0.2047 | | 127 | 195 | 135 | 5.2 |
| A1622-NO5 | 5.22 | 0.2055 | No. 05 | 127 | 195 | 135 | 5.22 |
| A1622-5.3 | 5.3 | 0.2087 | | 127 | 195 | 135 | 5.3 |
| A1622-NO4 | 5.309 | 0.2090 | No. 04 | 131 | 205 | 140 | 5.309 |
| A1622-5.4 | 5.4 | 0.2126 | | 131 | 205 | 140 | 5.4 |
| A1622-NO3 | 5.41 | 0.2130 | No. 03 | 131 | 205 | 140 | 5.41 |
| A1622-5.5 | 5.5 | 0.2165 | | 131 | 205 | 140 | 5.5 |
| A1622-7/32IN | 5.556 | 0.2187 | 7/32" | 131 | 205 | 140 | 5.556 |

## Tool

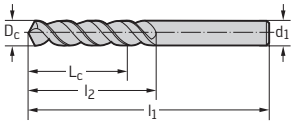



Cylindrical shank

B1

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1622-5.6 | 5.6 | 0.2205 | | 131 | 205 | 140 | 5.6 |
| A1622-NO2 | 5.613 | 0.2210 | No. 02 | 131 | 205 | 140 | 5.613 |
| A1622-5.7 | 5.7 | 0.2244 | | 131 | 205 | 140 | 5.7 |
| A1622-NO1 | 5.791 | 0.2280 | No. 01 | 131 | 205 | 140 | 5.791 |
| A1622-5.8 | 5.8 | 0.2283 | | 131 | 205 | 140 | 5.8 |
| A1622-5.9 | 5.9 | 0.2323 | | 131 | 205 | 140 | 5.9 |
| A1622-15/64IN | 5.953 | 0.2344 | 15/64" | 131 | 205 | 140 | 5.953 |
| A1622-6 | 6 | 0.2362 | | 131 | 205 | 140 | 6 |
| A1622-6.1 | 6.1 | 0.2402 | | 139 | 215 | 150 | 6.1 |
| A1622-6.2 | 6.2 | 0.2441 | | 139 | 215 | 150 | 6.2 |
| A1622-6.3 | 6.3 | 0.2480 | | 139 | 215 | 150 | 6.3 |
| A1622-1/4IN | 6.35 | 0.2500 | 1/4" | 139 | 215 | 150 | 6.35 |
| A1622-6.4 | 6.4 | 0.2520 | | 139 | 215 | 150 | 6.4 |
| A1622-6.5 | 6.5 | 0.2559 | | 139 | 215 | 150 | 6.5 |
| A1622-6.6 | 6.6 | 0.2598 | | 139 | 215 | 150 | 6.6 |
| A1622-6.7 | 6.7 | 0.2638 | | 139 | 215 | 150 | 6.7 |
| A1622-17/64IN | 6.747 | 0.2656 | 17/64" | 143 | 225 | 155 | 6.747 |
| A1622-6.8 | 6.8 | 0.2677 | | 143 | 225 | 155 | 6.8 |
| A1622-6.9 | 6.9 | 0.2717 | | 143 | 225 | 155 | 6.9 |
| A1622-7 | 7 | 0.2756 | | 143 | 225 | 155 | 7 |
| A1622-7.1 | 7.1 | 0.2795 | | 143 | 225 | 155 | 7.1 |
| A1622-9/32IN | 7.144 | 0.2813 | 9/32" | 143 | 225 | 155 | 7.144 |
| A1622-7.2 | 7.2 | 0.2835 | | 143 | 225 | 155 | 7.2 |
| A1622-7.3 | 7.3 | 0.2874 | | 143 | 225 | 155 | 7.3 |
| A1622-7.4 | 7.4 | 0.2913 | | 143 | 225 | 155 | 7.4 |
| A1622-7.5 | 7.5 | 0.2953 | | 143 | 225 | 155 | 7.5 |
| A1622-19/64IN | 7.541 | 0.2969 | 19/64" | 152 | 240 | 165 | 7.541 |
| A1622-7.6 | 7.6 | 0.2992 | | 152 | 240 | 165 | 7.6 |
| A1622-7.7 | 7.7 | 0.3031 | | 152 | 240 | 165 | 7.7 |
| A1622-7.8 | 7.8 | 0.3071 | | 152 | 240 | 165 | 7.8 |
| A1622-7.9 | 7.9 | 0.3110 | | 152 | 240 | 165 | 7.9 |
| A1622-5/16IN | 7.938 | 0.3125 | 5/16" | 152 | 240 | 165 | 7.938 |
| A1622-8 | 8 | 0.3150 | | 152 | 240 | 165 | 8 |
| A1622-8.1 | 8.1 | 0.3189 | | 152 | 240 | 165 | 8.1 |
| A1622-8.2 | 8.2 | 0.3228 | | 152 | 240 | 165 | 8.2 |
| A1622-8.3 | 8.3 | 0.3268 | | 152 | 240 | 165 | 8.3 |
| A1622-21/64IN | 8.334 | 0.3281 | 21/64" | 152 | 240 | 165 | 8.334 |
| A1622-8.4 | 8.4 | 0.3307 | | 152 | 240 | 165 | 8.4 |
| A1622-8.5 | 8.5 | 0.3346 | | 152 | 240 | 165 | 8.5 |
| A1622-8.6 | 8.6 | 0.3386 | | 160 | 250 | 175 | 8.6 |
| A1622-8.7 | 8.7 | 0.3425 | | 160 | 250 | 175 | 8.7 |
| A1622-11/32IN | 8.731 | 0.3437 | 11/32" | 160 | 250 | 175 | 8.731 |
| A1622-8.8 | 8.8 | 0.3465 | | 160 | 250 | 175 | 8.8 |
| A1622-8.9 | 8.9 | 0.3504 | | 160 | 250 | 175 | 8.9 |
| A1622-9 | 9 | 0.3543 | | 160 | 250 | 175 | 9 |
| A1622-9.1 | 9.1 | 0.3583 | | 160 | 250 | 175 | 9.1 |
| A1622-23/64IN | 9.128 | 0.3594 | 23/64" | 160 | 250 | 175 | 9.128 |
| A1622-9.2 | 9.2 | 0.3622 | | 160 | 250 | 175 | 9.2 |

## Tool



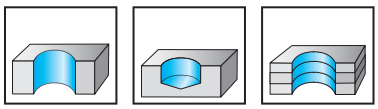

Cylindrical shank

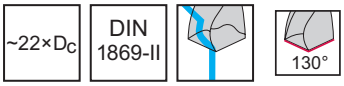
| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|---|
| A1622-9.3 | 9.3 | 0.3661 | | 160 | 250 | 175 | 9.3 |
| A1622-9.4 | 9.4 | 0.3701 | | 160 | 250 | 175 | 9.4 |
| A1622-9.5 | 9.5 | 0.3740 | | 160 | 250 | 175 | 9.5 |
| A1622-3/8IN | 9.525 | 0.3750 | 3/8" | 169 | 265 | 185 | 9.525 |
| A1622-9.6 | 9.6 | 0.3780 | | 169 | 265 | 185 | 9.6 |
| A1622-9.7 | 9.7 | 0.3819 | | 169 | 265 | 185 | 9.7 |
| A1622-9.8 | 9.8 | 0.3858 | | 169 | 265 | 185 | 9.8 |
| A1622-9.9 | 9.9 | 0.3898 | | 169 | 265 | 185 | 9.9 |
| A1622-25/64IN | 9.922 | 0.3906 | 25/64" | 169 | 265 | 185 | 9.922 |
| A1622-10 | 10 | 0.3937 | | 169 | 265 | 185 | 10 |
| A1622-13/32IN | 10.319 | 0.4063 | 13/32" | 169 | 265 | 185 | 10.319 |
| A1622-10.5 | 10.5 | 0.4134 | | 169 | 265 | 185 | 10.5 |
| A1622-27/64IN | 10.716 | 0.4219 | 27/64" | 177 | 280 | 195 | 10.716 |
| A1622-11 | 11 | 0.4331 | | 177 | 280 | 195 | 11 |
| A1622-7/16IN | 11.113 | 0.4375 | 7/16" | 177 | 280 | 195 | 11.113 |
| A1622-11.5 | 11.5 | 0.4528 | | 177 | 280 | 195 | 11.5 |
| A1622-29/64IN | 11.509 | 0.4531 | 29/64" | 177 | 280 | 195 | 11.509 |
| A1622-15/32IN | 11.906 | 0.4687 | 15/32" | 191 | 295 | 205 | 11.906 |
| A1622-12 | 12 | 0.4724 | | 191 | 295 | 205 | 12 |
| A1622-31/64IN | 12.303 | 0.4844 | 31/64" | 191 | 295 | 205 | 12.303 |
| A1622-1/2IN | 12.7 | 0.5000 | 1/2" | 191 | 295 | 205 | 12.7 |

# HSS deep-hole drills, extra long

## A1722

## UFL®

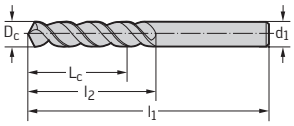





B1

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

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1722-3 | 3 | 0.1181 | 125 | 190 | 130 | 3 |
| A1722-3.5 | 3.5 | 0.1378 | 139 | 210 | 145 | 3.5 |
| A1722-4 | 4 | 0.1575 | 143 | 220 | 150 | 4 |
| A1722-4.5 | 4.5 | 0.1772 | 152 | 235 | 160 | 4.5 |
| A1722-5 | 5 | 0.1969 | 162 | 245 | 170 | 5 |
| A1722-5.5 | 5.5 | 0.2165 | 171 | 260 | 180 | 5.5 |
| A1722-6 | 6 | 0.2362 | 171 | 260 | 180 | 6 |
| A1722-6.5 | 6.5 | 0.2559 | 179 | 275 | 190 | 6.5 |
| A1722-7 | 7 | 0.2756 | 188 | 290 | 200 | 7 |
| A1722-7.5 | 7.5 | 0.2953 | 188 | 290 | 200 | 7.5 |
| A1722-8 | 8 | 0.3150 | 197 | 305 | 210 | 8 |
| A1722-8.5 | 8.5 | 0.3346 | 197 | 305 | 210 | 8.5 |
| A1722-9 | 9 | 0.3543 | 205 | 320 | 220 | 9 |
| A1722-9.5 | 9.5 | 0.3740 | 205 | 320 | 220 | 9.5 |
| A1722-10 | 10 | 0.3937 | 219 | 340 | 235 | 10 |
| A1722-10.5 | 10.5 | 0.4134 | 219 | 340 | 235 | 10.5 |
| A1722-11 | 11 | 0.4331 | 232 | 360 | 250 | 11 |
| A1722-11.5 | 11.5 | 0.4528 | 232 | 360 | 250 | 11.5 |
| A1722-12 | 12 | 0.4724 | 246 | 380 | 260 | 12 |

**WALTER SELECT**

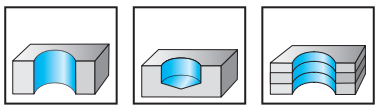
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS deep-hole drills, extra long

## A1822

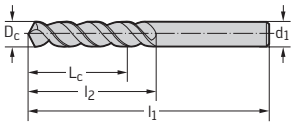
## UFL®




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



### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1822-3.5 | 3.5 | 0.1378 | 174 | 265 | 180 | 3.5 |
| A1822-4 | 4 | 0.1575 | 183 | 280 | 190 | 4 |
| A1822-4.5 | 4.5 | 0.1772 | 192 | 295 | 200 | 4.5 |
| A1822-5 | 5 | 0.1969 | 202 | 315 | 210 | 5 |
| A1822-5.5 | 5.5 | 0.2165 | 216 | 330 | 225 | 5.5 |
| A1822-6 | 6 | 0.2362 | 216 | 330 | 225 | 6 |
| A1822-6.5 | 6.5 | 0.2559 | 224 | 350 | 235 | 6.5 |
| A1822-7 | 7 | 0.2756 | 238 | 370 | 250 | 7 |
| A1822-7.5 | 7.5 | 0.2953 | 238 | 370 | 250 | 7.5 |
| A1822-8 | 8 | 0.3150 | 252 | 390 | 265 | 8 |
| A1822-8.5 | 8.5 | 0.3346 | 252 | 390 | 265 | 8.5 |
| A1822-9 | 9 | 0.3543 | 265 | 410 | 280 | 9 |
| A1822-9.5 | 9.5 | 0.3740 | 265 | 410 | 280 | 9.5 |
| A1822-10 | 10 | 0.3937 | 279 | 430 | 295 | 10 |
| A1822-10.5 | 10.5 | 0.4134 | 279 | 430 | 295 | 10.5 |
| A1822-11 | 11 | 0.4331 | 287 | 450 | 305 | 11 |
| A1822-11.5 | 11.5 | 0.4528 | 287 | 450 | 305 | 11.5 |
| A1822-12 | 12 | 0.4724 | 291 | 480 | 305 | 12 |

**WALTER SELECT**

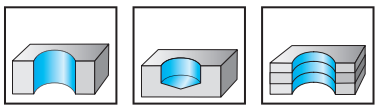
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS deep-hole drills, super long

## A1922S

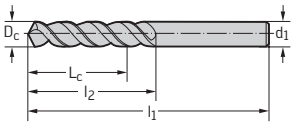
## UFL®




B1

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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1922S-6 | 6 | 0.2362 | 389 | 500 | 400 | 6 |
| A1922S-6.5 | 6.5 | 0.2559 | 389 | 500 | 400 | 6.5 |
| A1922S-7 | 7 | 0.2756 | 389 | 500 | 400 | 7 |
| A1922S-8 | 8 | 0.3150 | 536 | 650 | 550 | 8 |
| A1922S-9 | 9 | 0.3543 | 536 | 650 | 550 | 9 |
| A1922S-10 | 10 | 0.3937 | 680 | 800 | 700 | 10 |
| A1922S-11 | 11 | 0.4331 | 680 | 800 | 700 | 11 |
| A1922S-12 | 12 | 0.4724 | 680 | 800 | 700 | 12 |
| A1922S-13 | 13 | 0.5118 | 680 | 800 | 700 | 13 |
| A1922S-14 | 14 | 0.5512 | 680 | 800 | 700 | 14 |

**WALTER SELECT**

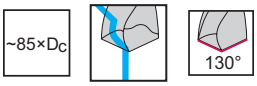
●● Primary application ● Other application

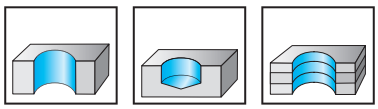
Best tool for → Good = → Average = → Poor = machining conditions

# HSS deep-hole drills, super long

## A1922L

## UFL®

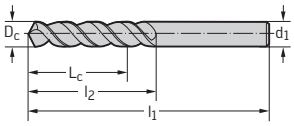


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ●● | ● | | ● |

B1

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|---|
| A1922L-8 | 8 | 0.3150 | 685 | 800 | 700 | 8 |
| A1922L-10 | 10 | 0.3937 | 769 | 1.000 | 800 | 10 |
| A1922L-12 | 12 | 0.4724 | 769 | 1.000 | 800 | 12 |

**WALTER SELECT**

●● Primary application ● Other application

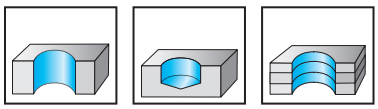
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS-E twist drills with Morse taper

## A4244

## VA



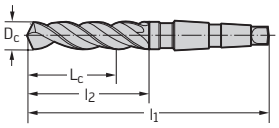


~8×$D_c$ | DIN 345 | 130°

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

B1

## Tool




Morse taper

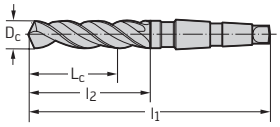
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4244-10 | 10 | 0.3937 | 71 | 168 | 87 | MK1 B |
| A4244-10.2 | 10.2 | 0.4016 | 71 | 168 | 87 | MK1 B |
| A4244-10.5 | 10.5 | 0.4134 | 71 | 168 | 87 | MK1 B |
| A4244-10.8 | 10.8 | 0.4252 | 76 | 175 | 94 | MK1 B |
| A4244-11 | 11 | 0.4331 | 76 | 175 | 94 | MK1 B |
| A4244-11.2 | 11.2 | 0.4409 | 76 | 175 | 94 | MK1 B |
| A4244-11.5 | 11.5 | 0.4528 | 76 | 175 | 94 | MK1 B |
| A4244-11.8 | 11.8 | 0.4646 | 76 | 175 | 94 | MK1 B |
| A4244-12 | 12 | 0.4724 | 87 | 182 | 101 | MK1 B |
| A4244-12.2 | 12.2 | 0.4803 | 87 | 182 | 101 | MK1 B |
| A4244-12.5 | 12.5 | 0.4921 | 87 | 182 | 101 | MK1 B |
| A4244-12.8 | 12.8 | 0.5039 | 87 | 182 | 101 | MK1 B |
| A4244-13 | 13 | 0.5118 | 87 | 182 | 101 | MK1 B |
| A4244-13.5 | 13.5 | 0.5315 | 94 | 189 | 108 | MK1 B |
| A4244-13.8 | 13.8 | 0.5433 | 94 | 189 | 108 | MK1 B |
| A4244-14 | 14 | 0.5512 | 94 | 189 | 108 | MK1 B |
| A4244-14.25 | 14.25 | 0.5610 | 99 | 212 | 114 | MK2 B |
| A4244-14.5 | 14.5 | 0.5709 | 99 | 212 | 114 | MK2 B |
| A4244-14.75 | 14.75 | 0.5807 | 99 | 212 | 114 | MK2 B |
| A4244-15 | 15 | 0.5906 | 99 | 212 | 114 | MK2 B |
| A4244-15.25 | 15.25 | 0.6004 | 104 | 218 | 120 | MK2 B |
| A4244-15.5 | 15.5 | 0.6102 | 104 | 218 | 120 | MK2 B |
| A4244-15.75 | 15.75 | 0.6201 | 104 | 218 | 120 | MK2 B |
| A4244-16 | 16 | 0.6299 | 104 | 218 | 120 | MK2 B |
| A4244-16.5 | 16.5 | 0.6496 | 108 | 223 | 125 | MK2 B |
| A4244-16.75 | 16.75 | 0.6594 | 108 | 223 | 125 | MK2 B |
| A4244-17 | 17 | 0.6693 | 108 | 223 | 125 | MK2 B |
| A4244-17.25 | 17.25 | 0.6791 | 112 | 228 | 130 | MK2 B |
| A4244-17.5 | 17.5 | 0.6890 | 112 | 228 | 130 | MK2 B |
| A4244-17.75 | 17.75 | 0.6988 | 112 | 228 | 130 | MK2 B |
| A4244-18 | 18 | 0.7087 | 112 | 228 | 130 | MK2 B |
| A4244-18.25 | 18.25 | 0.7185 | 116 | 233 | 135 | MK2 B |
| A4244-18.5 | 18.5 | 0.7283 | 116 | 233 | 135 | MK2 B |
| A4244-18.75 | 18.75 | 0.7382 | 116 | 233 | 135 | MK2 B |
| A4244-19 | 19 | 0.7480 | 116 | 233 | 135 | MK2 B |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




Morse taper

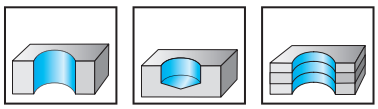
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4244-19.25 | 19.25 | 0.7579 | 120 | 238 | 140 | MK2 B |
| A4244-19.5 | 19.5 | 0.7677 | 120 | 238 | 140 | MK2 B |
| A4244-19.75 | 19.75 | 0.7776 | 120 | 238 | 140 | MK2 B |
| A4244-20 | 20 | 0.7874 | 120 | 238 | 140 | MK2 B |
| A4244-20.25 | 20.25 | 0.7972 | 123 | 243 | 145 | MK2 B |
| A4244-20.5 | 20.5 | 0.8071 | 123 | 243 | 145 | MK2 B |
| A4244-20.75 | 20.75 | 0.8169 | 123 | 243 | 145 | MK2 B |
| A4244-21 | 21 | 0.8268 | 123 | 243 | 145 | MK2 B |
| A4244-21.25 | 21.25 | 0.8366 | 127 | 248 | 150 | MK2 B |
| A4244-21.5 | 21.5 | 0.8465 | 127 | 248 | 150 | MK2 B |
| A4244-22 | 22 | 0.8661 | 127 | 248 | 150 | MK2 B |
| A4244-22.25 | 22.25 | 0.8760 | 127 | 248 | 150 | MK2 B |
| A4244-22.5 | 22.5 | 0.8858 | 131 | 253 | 155 | MK2 B |
| A4244-22.75 | 22.75 | 0.8957 | 131 | 253 | 155 | MK2 B |
| A4244-23 | 23 | 0.9055 | 131 | 253 | 155 | MK2 B |
| A4244-23.5 | 23.5 | 0.9252 | 131 | 276 | 155 | MK3 B |
| A4244-24 | 24 | 0.9449 | 135 | 281 | 160 | MK3 B |
| A4244-24.5 | 24.5 | 0.9646 | 135 | 281 | 160 | MK3 B |
| A4244-25 | 25 | 0.9843 | 135 | 281 | 160 | MK3 B |
| A4244-25.5 | 25.5 | 1.0039 | 138 | 286 | 165 | MK3 B |
| A4244-26 | 26 | 1.0236 | 138 | 286 | 165 | MK3 B |
| A4244-26.5 | 26.5 | 1.0433 | 138 | 286 | 165 | MK3 B |
| A4244-27 | 27 | 1.0630 | 142 | 291 | 170 | MK3 B |
| A4244-28 | 28 | 1.1024 | 142 | 291 | 170 | MK3 B |
| A4244-29 | 29 | 1.1417 | 145 | 296 | 175 | MK3 B |
| A4244-29.5 | 29.5 | 1.1614 | 145 | 296 | 175 | MK3 B |
| A4244-30 | 30 | 1.1811 | 145 | 296 | 175 | MK3 B |
| A4244-30.5 | 30.5 | 1.2008 | 148 | 301 | 180 | MK3 B |
| A4244-31 | 31 | 1.2205 | 148 | 301 | 180 | MK3 B |
| A4244-31.5 | 31.5 | 1.2402 | 148 | 301 | 180 | MK3 B |
| A4244-32 | 32 | 1.2598 | 151 | 334 | 185 | MK4 B |

# HSS-E twist drills with Morse taper

## A4247

## Alpha® XE

– Uncoated from 23.02 mm

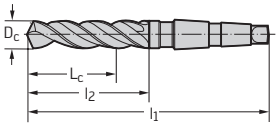


~8×$D_c$ | DIN 345 | 130°

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

B1

## Tool




Morse taper

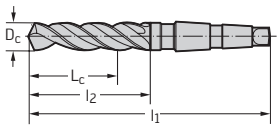
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4247-10 | 10 | 0.3937 | 71 | 168 | 87 | MK1 B |
| A4247-10.2 | 10.2 | 0.4016 | 71 | 168 | 87 | MK1 B |
| A4247-10.5 | 10.5 | 0.4134 | 71 | 168 | 87 | MK1 B |
| A4247-10.8 | 10.8 | 0.4252 | 76 | 175 | 94 | MK1 B |
| A4247-11 | 11 | 0.4331 | 76 | 175 | 94 | MK1 B |
| A4247-11.5 | 11.5 | 0.4528 | 76 | 175 | 94 | MK1 B |
| A4247-11.8 | 11.8 | 0.4646 | 76 | 175 | 94 | MK1 B |
| A4247-12 | 12 | 0.4724 | 87 | 182 | 101 | MK1 B |
| A4247-12.2 | 12.2 | 0.4803 | 87 | 182 | 101 | MK1 B |
| A4247-12.5 | 12.5 | 0.4921 | 87 | 182 | 101 | MK1 B |
| A4247-12.8 | 12.8 | 0.5039 | 87 | 182 | 101 | MK1 B |
| A4247-13 | 13 | 0.5118 | 87 | 182 | 101 | MK1 B |
| A4247-13.2 | 13.2 | 0.5197 | 87 | 182 | 101 | MK1 B |
| A4247-13.5 | 13.5 | 0.5315 | 94 | 189 | 108 | MK1 B |
| A4247-13.8 | 13.8 | 0.5433 | 94 | 189 | 108 | MK1 B |
| A4247-14 | 14 | 0.5512 | 94 | 189 | 108 | MK1 B |
| A4247-14.25 | 14.25 | 0.5610 | 99 | 212 | 114 | MK2 B |
| A4247-14.5 | 14.5 | 0.5709 | 99 | 212 | 114 | MK2 B |
| A4247-14.75 | 14.75 | 0.5807 | 99 | 212 | 114 | MK2 B |
| A4247-15 | 15 | 0.5906 | 99 | 212 | 114 | MK2 B |
| A4247-15.25 | 15.25 | 0.6004 | 104 | 218 | 120 | MK2 B |
| A4247-15.5 | 15.5 | 0.6102 | 104 | 218 | 120 | MK2 B |
| A4247-15.75 | 15.75 | 0.6201 | 104 | 218 | 120 | MK2 B |
| A4247-16 | 16 | 0.6299 | 104 | 218 | 120 | MK2 B |
| A4247-16.25 | 16.25 | 0.6398 | 108 | 223 | 125 | MK2 B |
| A4247-16.5 | 16.5 | 0.6496 | 108 | 223 | 125 | MK2 B |
| A4247-16.75 | 16.75 | 0.6594 | 108 | 223 | 125 | MK2 B |
| A4247-17 | 17 | 0.6693 | 108 | 223 | 125 | MK2 B |
| A4247-17.25 | 17.25 | 0.6791 | 112 | 228 | 130 | MK2 B |
| A4247-17.5 | 17.5 | 0.6890 | 112 | 228 | 130 | MK2 B |
| A4247-17.75 | 17.75 | 0.6988 | 112 | 228 | 130 | MK2 B |
| A4247-18 | 18 | 0.7087 | 112 | 228 | 130 | MK2 B |
| A4247-18.25 | 18.25 | 0.7185 | 116 | 233 | 135 | MK2 B |
| A4247-18.5 | 18.5 | 0.7283 | 116 | 233 | 135 | MK2 B |
| A4247-18.75 | 18.75 | 0.7382 | 116 | 233 | 135 | MK2 B |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




Morse taper

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4247-19 | 19 | 0.7480 | 116 | 233 | 135 | MK2 B |
| A4247-19.25 | 19.25 | 0.7579 | 120 | 238 | 140 | MK2 B |
| A4247-19.5 | 19.5 | 0.7677 | 120 | 238 | 140 | MK2 B |
| A4247-19.75 | 19.75 | 0.7776 | 120 | 238 | 140 | MK2 B |
| A4247-20 | 20 | 0.7874 | 120 | 238 | 140 | MK2 B |
| A4247-20.25 | 20.25 | 0.7972 | 123 | 243 | 145 | MK2 B |
| A4247-20.5 | 20.5 | 0.8071 | 123 | 243 | 145 | MK2 B |
| A4247-20.75 | 20.75 | 0.8169 | 123 | 243 | 145 | MK2 B |
| A4247-21 | 21 | 0.8268 | 123 | 243 | 145 | MK2 B |
| A4247-21.25 | 21.25 | 0.8366 | 127 | 248 | 150 | MK2 B |
| A4247-21.5 | 21.5 | 0.8465 | 127 | 248 | 150 | MK2 B |
| A4247-21.75 | 21.75 | 0.8563 | 127 | 248 | 150 | MK2 B |
| A4247-22 | 22 | 0.8661 | 127 | 248 | 150 | MK2 B |
| A4247-22.25 | 22.25 | 0.8760 | 127 | 248 | 150 | MK2 B |
| A4247-22.5 | 22.5 | 0.8858 | 131 | 253 | 155 | MK2 B |
| A4247-22.75 | 22.75 | 0.8957 | 131 | 253 | 155 | MK2 B |
| A4247-23 | 23 | 0.9055 | 131 | 253 | 155 | MK2 B |
| A4247-23.5 | 23.5 | 0.9252 | 131 | 276 | 155 | MK3 B |
| A4247-24 | 24 | 0.9449 | 135 | 281 | 160 | MK3 B |
| A4247-24.5 | 24.5 | 0.9646 | 135 | 281 | 160 | MK3 B |
| A4247-25 | 25 | 0.9843 | 135 | 281 | 160 | MK3 B |
| A4247-25.5 | 25.5 | 1.0039 | 138 | 286 | 165 | MK3 B |
| A4247-26 | 26 | 1.0236 | 138 | 286 | 165 | MK3 B |
| A4247-26.5 | 26.5 | 1.0433 | 138 | 286 | 165 | MK3 B |
| A4247-27 | 27 | 1.0630 | 142 | 291 | 170 | MK3 B |
| A4247-27.5 | 27.5 | 1.0827 | 142 | 291 | 170 | MK3 B |
| A4247-28 | 28 | 1.1024 | 142 | 291 | 170 | MK3 B |
| A4247-28.5 | 28.5 | 1.1220 | 145 | 296 | 175 | MK3 B |
| A4247-29 | 29 | 1.1417 | 145 | 296 | 175 | MK3 B |
| A4247-29.5 | 29.5 | 1.1614 | 145 | 296 | 175 | MK3 B |
| A4247-30 | 30 | 1.1811 | 145 | 296 | 175 | MK3 B |
| A4247-30.5 | 30.5 | 1.2008 | 148 | 301 | 180 | MK3 B |
| A4247-31 | 31 | 1.2205 | 148 | 301 | 180 | MK3 B |
| A4247-31.5 | 31.5 | 1.2402 | 148 | 301 | 180 | MK3 B |
| A4247-32 | 32 | 1.2598 | 151 | 334 | 185 | MK4 B |
| A4247-32.5 | 32.5 | 1.2795 | 151 | 334 | 185 | MK4 B |
| A4247-33 | 33 | 1.2992 | 151 | 334 | 185 | MK4 B |
| A4247-34 | 34 | 1.3386 | 154 | 339 | 190 | MK4 B |
| A4247-35 | 35 | 1.3780 | 154 | 339 | 190 | MK4 B |
| A4247-36 | 36 | 1.4173 | 157 | 344 | 195 | MK4 B |
| A4247-37 | 37 | 1.4567 | 157 | 344 | 195 | MK4 B |
| A4247-38 | 38 | 1.4961 | 160 | 349 | 200 | MK4 B |
| A4247-39 | 39 | 1.5354 | 160 | 349 | 200 | MK4 B |
| A4247-40 | 40 | 1.5748 | 160 | 349 | 200 | MK4 B |

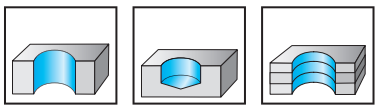
# HSS twist drills with Morse taper, long

## A4422

## UFL®



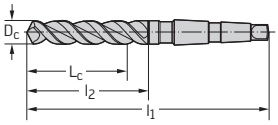
– Uncoated from 23.02 mm




B1

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

### Tool




Morse taper

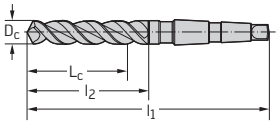
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4422-10 | 10 | 0.3937 | 100 | 197 | 116 | MK1 B |
| A4422-10.2 | 10.2 | 0.4016 | 100 | 197 | 116 | MK1 B |
| A4422-10.5 | 10.5 | 0.4134 | 100 | 197 | 116 | MK1 B |
| A4422-10.8 | 10.8 | 0.4252 | 107 | 206 | 125 | MK1 B |
| A4422-11 | 11 | 0.4331 | 107 | 206 | 125 | MK1 B |
| A4422-11.2 | 11.2 | 0.4409 | 107 | 206 | 125 | MK1 B |
| A4422-11.5 | 11.5 | 0.4528 | 107 | 206 | 125 | MK1 B |
| A4422-11.8 | 11.8 | 0.4646 | 107 | 206 | 125 | MK1 B |
| A4422-12 | 12 | 0.4724 | 120 | 215 | 134 | MK1 B |
| A4422-12.2 | 12.2 | 0.4803 | 120 | 215 | 134 | MK1 B |
| A4422-12.5 | 12.5 | 0.4921 | 120 | 215 | 134 | MK1 B |
| A4422-12.8 | 12.8 | 0.5039 | 120 | 215 | 134 | MK1 B |
| A4422-13 | 13 | 0.5118 | 120 | 215 | 134 | MK1 B |
| A4422-13.2 | 13.2 | 0.5197 | 120 | 215 | 134 | MK1 B |
| A4422-13.5 | 13.5 | 0.5315 | 128 | 223 | 142 | MK1 B |
| A4422-13.8 | 13.8 | 0.5433 | 128 | 223 | 142 | MK1 B |
| A4422-14 | 14 | 0.5512 | 128 | 223 | 142 | MK1 B |
| A4422-14.25 | 14.25 | 0.5610 | 132 | 245 | 147 | MK2 B |
| A4422-14.5 | 14.5 | 0.5709 | 132 | 245 | 147 | MK2 B |
| A4422-14.75 | 14.75 | 0.5807 | 132 | 245 | 147 | MK2 B |
| A4422-15 | 15 | 0.5906 | 132 | 245 | 147 | MK2 B |
| A4422-15.25 | 15.25 | 0.6004 | 137 | 251 | 153 | MK2 B |
| A4422-15.5 | 15.5 | 0.6102 | 137 | 251 | 153 | MK2 B |
| A4422-15.75 | 15.75 | 0.6201 | 137 | 251 | 153 | MK2 B |
| A4422-16 | 16 | 0.6299 | 137 | 251 | 153 | MK2 B |
| A4422-16.25 | 16.25 | 0.6398 | 142 | 257 | 159 | MK2 B |
| A4422-16.5 | 16.5 | 0.6496 | 142 | 257 | 159 | MK2 B |
| A4422-16.75 | 16.75 | 0.6594 | 142 | 257 | 159 | MK2 B |
| A4422-17 | 17 | 0.6693 | 142 | 257 | 159 | MK2 B |
| A4422-17.5 | 17.5 | 0.6890 | 147 | 263 | 165 | MK2 B |
| A4422-17.75 | 17.75 | 0.6988 | 147 | 263 | 165 | MK2 B |
| A4422-18 | 18 | 0.7087 | 147 | 263 | 165 | MK2 B |
| A4422-18.25 | 18.25 | 0.7185 | 152 | 269 | 171 | MK2 B |
| A4422-18.5 | 18.5 | 0.7283 | 152 | 269 | 171 | MK2 B |
| A4422-18.75 | 18.75 | 0.7382 | 152 | 269 | 171 | MK2 B |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




Morse taper

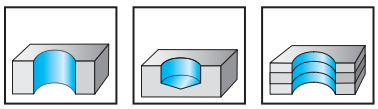
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4422-19 | 19 | 0.7480 | 152 | 269 | 171 | MK2 B |
| A4422-19.25 | 19.25 | 0.7579 | 157 | 275 | 177 | MK2 B |
| A4422-19.5 | 19.5 | 0.7677 | 157 | 275 | 177 | MK2 B |
| A4422-19.75 | 19.75 | 0.7776 | 157 | 275 | 177 | MK2 B |
| A4422-20 | 20 | 0.7874 | 157 | 275 | 177 | MK2 B |
| A4422-20.5 | 20.5 | 0.8071 | 162 | 282 | 184 | MK2 B |
| A4422-21 | 21 | 0.8268 | 162 | 282 | 184 | MK2 B |
| A4422-21.5 | 21.5 | 0.8465 | 168 | 289 | 191 | MK2 B |
| A4422-22 | 22 | 0.8661 | 168 | 289 | 191 | MK2 B |
| A4422-22.5 | 22.5 | 0.8858 | 174 | 296 | 198 | MK2 B |
| A4422-23 | 23 | 0.9055 | 174 | 296 | 198 | MK2 B |
| A4422-23.5 | 23.5 | 0.9252 | 174 | 319 | 198 | MK3 B |
| A4422-24 | 24 | 0.9449 | 181 | 327 | 206 | MK3 B |
| A4422-24.5 | 24.5 | 0.9646 | 181 | 327 | 206 | MK3 B |
| A4422-25 | 25 | 0.9843 | 181 | 327 | 206 | MK3 B |
| A4422-26 | 26 | 1.0236 | 187 | 335 | 214 | MK3 B |
| A4422-27 | 27 | 1.0630 | 194 | 343 | 222 | MK3 B |
| A4422-28 | 28 | 1.1024 | 194 | 343 | 222 | MK3 B |
| A4422-29 | 29 | 1.1417 | 200 | 351 | 230 | MK3 B |
| A4422-30 | 30 | 1.1811 | 200 | 351 | 230 | MK3 B |
| A4422-31 | 31 | 1.2205 | 207 | 360 | 239 | MK3 B |

# HSS drills with Morse taper, extra long

## A4622

## UFL®

– Uncoated from 23.02 mm



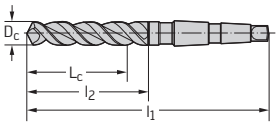


~16×$D_c$ | DIN 1870-I | 130°

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

B1

## Tool




Morse taper

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4622-12 | 12 | 0.4724 | 191 | 310 | 205 | MK1 B |
| A4622-12.5 | 12.5 | 0.4921 | 191 | 310 | 205 | MK1 B |
| A4622-13 | 13 | 0.5118 | 191 | 310 | 205 | MK1 B |
| A4622-13.5 | 13.5 | 0.5315 | 206 | 325 | 220 | MK1 B |
| A4622-14 | 14 | 0.5512 | 206 | 325 | 220 | MK1 B |
| A4622-14.5 | 14.5 | 0.5709 | 205 | 340 | 220 | MK2 B |
| A4622-15 | 15 | 0.5906 | 205 | 340 | 220 | MK2 B |
| A4622-15.5 | 15.5 | 0.6102 | 214 | 355 | 230 | MK2 B |
| A4622-16 | 16 | 0.6299 | 214 | 355 | 230 | MK2 B |
| A4622-16.5 | 16.5 | 0.6496 | 213 | 355 | 230 | MK2 B |
| A4622-17 | 17 | 0.6693 | 213 | 355 | 230 | MK2 B |
| A4622-17.5 | 17.5 | 0.6890 | 227 | 370 | 245 | MK2 B |
| A4622-18 | 18 | 0.7087 | 227 | 370 | 245 | MK2 B |
| A4622-18.5 | 18.5 | 0.7283 | 226 | 370 | 245 | MK2 B |
| A4622-19 | 19 | 0.7480 | 226 | 370 | 245 | MK2 B |
| A4622-19.5 | 19.5 | 0.7677 | 240 | 385 | 260 | MK2 B |
| A4622-20 | 20 | 0.7874 | 240 | 385 | 260 | MK2 B |
| A4622-21 | 21 | 0.8268 | 238 | 385 | 260 | MK2 B |
| A4622-22 | 22 | 0.8661 | 247 | 405 | 270 | MK2 B |
| A4622-23 | 23 | 0.9055 | 246 | 405 | 270 | MK2 B |
| A4622-24 | 24 | 0.9449 | 265 | 440 | 290 | MK3 B |
| A4622-25 | 25 | 0.9843 | 265 | 440 | 290 | MK3 B |
| A4622-26 | 26 | 1.0236 | 263 | 440 | 290 | MK3 B |
| A4622-27 | 27 | 1.0630 | 277 | 460 | 305 | MK3 B |
| A4622-28 | 28 | 1.1024 | 277 | 460 | 305 | MK3 B |
| A4622-29 | 29 | 1.1417 | 275 | 460 | 305 | MK3 B |
| A4622-30 | 30 | 1.1811 | 275 | 460 | 305 | MK3 B |

**WALTER SELECT**

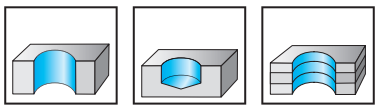
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS drills with Morse taper, extra long

## A4611

– Type N



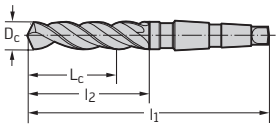


~16×$D_c$ | DIN 1870-I | 118°

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

B1

### Tool




Morse taper

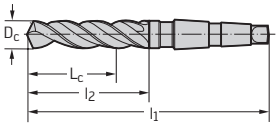
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4611-8 | 8 | 0.3150 | 152 | 265 | 165 | MK1 B |
| A4611-9 | 9 | 0.3543 | 160 | 275 | 175 | MK1 B |
| A4611-10 | 10 | 0.3937 | 169 | 285 | 185 | MK1 B |
| A4611-10.5 | 10.5 | 0.4134 | 169 | 285 | 185 | MK1 B |
| A4611-11 | 11 | 0.4331 | 177 | 300 | 195 | MK1 B |
| A4611-11.5 | 11.5 | 0.4528 | 177 | 300 | 195 | MK1 B |
| A4611-14 | 14 | 0.5512 | 206 | 325 | 220 | MK1 B |
| A4611-15 | 15 | 0.5906 | 205 | 340 | 220 | MK2 B |
| A4611-15.5 | 15.5 | 0.6102 | 214 | 355 | 230 | MK2 B |
| A4611-16 | 16 | 0.6299 | 214 | 355 | 230 | MK2 B |
| A4611-16.5 | 16.5 | 0.6496 | 213 | 355 | 230 | MK2 B |
| A4611-17 | 17 | 0.6693 | 213 | 355 | 230 | MK2 B |
| A4611-17.5 | 17.5 | 0.6890 | 227 | 370 | 245 | MK2 B |
| A4611-18 | 18 | 0.7087 | 227 | 370 | 245 | MK2 B |
| A4611-19 | 19 | 0.7480 | 226 | 370 | 245 | MK2 B |
| A4611-19.5 | 19.5 | 0.7677 | 240 | 385 | 260 | MK2 B |
| A4611-20 | 20 | 0.7874 | 240 | 385 | 260 | MK2 B |
| A4611-20.5 | 20.5 | 0.8071 | 238 | 385 | 260 | MK2 B |
| A4611-21 | 21 | 0.8268 | 238 | 385 | 260 | MK2 B |
| A4611-21.5 | 21.5 | 0.8465 | 247 | 405 | 270 | MK2 B |
| A4611-22 | 22 | 0.8661 | 247 | 405 | 270 | MK2 B |
| A4611-22.5 | 22.5 | 0.8858 | 246 | 405 | 270 | MK2 B |
| A4611-23 | 23 | 0.9055 | 246 | 405 | 270 | MK2 B |
| A4611-23.5 | 23.5 | 0.9252 | 246 | 425 | 270 | MK3 B |
| A4611-24 | 24 | 0.9449 | 265 | 440 | 290 | MK3 B |
| A4611-24.5 | 24.5 | 0.9646 | 265 | 440 | 290 | MK3 B |
| A4611-25 | 25 | 0.9843 | 265 | 440 | 290 | MK3 B |
| A4611-25.5 | 25.5 | 1.0039 | 263 | 440 | 290 | MK3 B |
| A4611-26 | 26 | 1.0236 | 263 | 440 | 290 | MK3 B |
| A4611-26.5 | 26.5 | 1.0433 | 263 | 440 | 290 | MK3 B |
| A4611-27 | 27 | 1.0630 | 277 | 460 | 305 | MK3 B |
| A4611-28 | 28 | 1.1024 | 277 | 460 | 305 | MK3 B |
| A4611-29 | 29 | 1.1417 | 275 | 460 | 305 | MK3 B |
| A4611-30 | 30 | 1.1811 | 275 | 460 | 305 | MK3 B |
| A4611-31 | 31 | 1.2205 | 288 | 480 | 320 | MK3 B |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




Morse taper

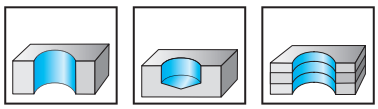
| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4611-32 | 32 | 1.2598 | 286 | 505 | 320 | MK4 B |
| A4611-33 | 33 | 1.2992 | 286 | 505 | 320 | MK4 B |
| A4611-34 | 34 | 1.3386 | 304 | 530 | 340 | MK4 B |
| A4611-35 | 35 | 1.3780 | 304 | 530 | 340 | MK4 B |
| A4611-38 | 38 | 1.4961 | 320 | 555 | 360 | MK4 B |
| A4611-39 | 39 | 1.5354 | 320 | 555 | 360 | MK4 B |
| A4611-40 | 40 | 1.5748 | 320 | 555 | 360 | MK4 B |

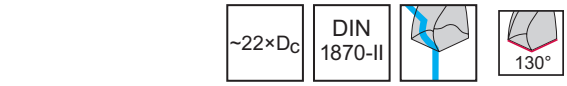
# HSS drills with Morse taper, extra long

## A4722

## UFL®

– Uncoated from 23.02 mm

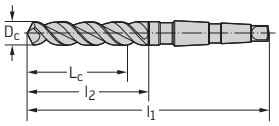





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ●● | ● | | ● |

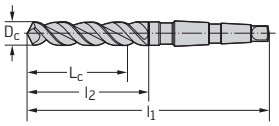
B1

## Tool




Morse taper

| Designation | $D_c$ mm | $D_c$ in | $L_c$ mm | $l_1$ mm | $l_2$ mm | MK |
|---|---|---|---|---|---|---|
| A4722-8 | 8 | 0.3150 | 197 | 330 | 210 | MK1 B |
| A4722-8.5 | 8.5 | 0.3346 | 197 | 330 | 210 | MK1 B |
| A4722-9 | 9 | 0.3543 | 205 | 345 | 220 | MK1 B |
| A4722-10 | 10 | 0.3937 | 219 | 360 | 235 | MK1 B |
| A4722-10.5 | 10.5 | 0.4134 | 219 | 360 | 235 | MK1 B |
| A4722-11 | 11 | 0.4331 | 232 | 375 | 250 | MK1 B |
| A4722-11.5 | 11.5 | 0.4528 | 232 | 375 | 250 | MK1 B |
| A4722-12 | 12 | 0.4724 | 246 | 395 | 260 | MK1 B |
| A4722-12.5 | 12.5 | 0.4921 | 246 | 395 | 260 | MK1 B |
| A4722-13 | 13 | 0.5118 | 246 | 395 | 260 | MK1 B |
| A4722-13.5 | 13.5 | 0.5315 | 261 | 410 | 275 | MK1 B |
| A4722-14 | 14 | 0.5512 | 261 | 410 | 275 | MK1 B |
| A4722-14.5 | 14.5 | 0.5709 | 260 | 425 | 275 | MK2 B |
| A4722-15 | 15 | 0.5906 | 260 | 425 | 275 | MK2 B |
| A4722-15.5 | 15.5 | 0.6102 | 279 | 445 | 295 | MK2 B |
| A4722-16 | 16 | 0.6299 | 279 | 445 | 295 | MK2 B |
| A4722-16.5 | 16.5 | 0.6496 | 278 | 445 | 295 | MK2 B |
| A4722-17 | 17 | 0.6693 | 278 | 445 | 295 | MK2 B |
| A4722-17.5 | 17.5 | 0.6890 | 292 | 465 | 310 | MK2 B |
| A4722-18 | 18 | 0.7087 | 292 | 465 | 310 | MK2 B |
| A4722-18.5 | 18.5 | 0.7283 | 291 | 465 | 310 | MK2 B |
| A4722-19 | 19 | 0.7480 | 291 | 465 | 310 | MK2 B |
| A4722-19.5 | 19.5 | 0.7677 | 305 | 490 | 325 | MK2 B |
| A4722-20 | 20 | 0.7874 | 305 | 490 | 325 | MK2 B |
| A4722-21 | 21 | 0.8268 | 303 | 490 | 325 | MK2 B |
| A4722-22 | 22 | 0.8661 | 322 | 515 | 345 | MK2 B |
| A4722-23 | 23 | 0.9055 | 321 | 515 | 345 | MK2 B |
| A4722-24 | 24 | 0.9449 | 340 | 555 | 365 | MK3 B |
| A4722-25 | 25 | 0.9843 | 340 | 555 | 365 | MK3 B |
| A4722-26 | 26 | 1.0236 | 338 | 555 | 365 | MK3 B |
| A4722-27 | 27 | 1.0630 | 357 | 580 | 385 | MK3 B |
| A4722-28 | 28 | 1.1024 | 357 | 580 | 385 | MK3 B |
| A4722-29 | 29 | 1.1417 | 355 | 580 | 385 | MK3 B |
| A4722-30 | 30 | 1.1811 | 355 | 580 | 385 | MK3 B |
| A4722-32 | 32 | 1.2598 | 376 | 635 | 410 | MK4 B |
| A4722-33 | 33 | 1.2992 | 376 | 635 | 410 | MK4 B |
| A4722-34 | 34 | 1.3386 | 394 | 665 | 430 | MK4 B |
| A4722-35 | 35 | 1.3780 | 394 | 665 | 430 | MK4 B |
| A4722-38 | 38 | 1.4961 | 420 | 695 | 460 | MK4 B |
| A4722-40 | 40 | 1.5748 | 420 | 695 | 460 | MK4 B |




Morse taper

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide and HSS NC spot drills

B1

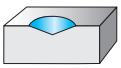
| Machining | | | | | |
|---|---|---|---|---|---|
| **Standard** | **Walter** | **Walter** | **Walter** | **Walter** | **Walter** |
| **Countersink angle** | **90°** | **120°** | | **90°** | |
| |  |  |  |  |  |
| **Designation** | A1174 | A1174C | A1115L | A1115 | A1115S |
| **Additional services** | R | R | | | |
| **Cutting tool material** | Carbide | Carbide | HSS | HSS | HSS |
| **Coating / grade** | uncoated | uncoated | uncoated | uncoated | uncoated |
| **Shank** | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.118–0.787 [3–20] | 0.118–0.787 [3–20] | 0.157–1.000 [4–25.4] | 0.157–0.787 [4–20] | 0.079–1.000 [2–25.4] |
| **P** Steel | | | ●● | ●● | ●● |
| **M** Stainless steel | | | ● | ● | ● |
| **K** Cast iron | ● | ● | ●● | ●● | ●● |
| **N** Non-ferrous metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ● | ● | ● |
| **H** Hard materials | | | | | |
| **O** Other | ●● | ●● | ●● | ●● | ●● |
| **Page in catalog** | B 408 | B 409 | B 410 | B 411 | B 412 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | A1174 | A1174C | A1115L | A1115 | A1115S |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide and HSS NC spot drills



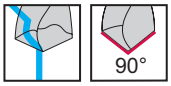
| Machining |  | | |
|---|---|---|---|
| **Standard** | **Walter** | **Walter** | **Walter** |
| **Countersink angle** | | **120°** | |
| |  |  |  |
| **Designation** | A1114L | A1114 | A1114S |
| **Additional services** | | | |
| **Cutting tool material** | HSS | HSS | HSS |
| **Coating / grade** | uncoated | uncoated | uncoated |
| **Shank** | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.157–0.500 [4–12.7] | 0.157–0.787 [4–20] | 0.079–1.000 [2–25.4] |
| **P** Steel | ●● | ●● | ●● |
| **M** Stainless steel | ● | ● | ● |
| **K** Cast iron | ●● | ●● | ●● |
| **N** Non-ferrous metals | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ● |
| **H** Hard materials | | | |
| **O** Other | ●● | ●● | ●● |
| **Page in catalog** | B 413 | B 414 | B 415 |
| **QR code** | | | |
| www.walter-tools.com/woc/ | A1114L | A1114 | A1114S |

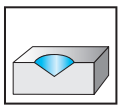
**WALTER SELECT** ●● Primary application ● Other application

# 90° solid carbide NC spot drills

## A1174

## NC 90°

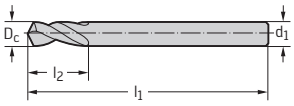


B1

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

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1174-3 | 3 | 0.1181 | | 46 | 11 | 3 |
| A1174-4 | 4 | 0.1575 | | 55 | 15 | 4 |
| A1174-5 | 5 | 0.1969 | | 62 | 16 | 5 |
| A1174-6 | 6 | 0.2362 | | 66 | 17 | 6 |
| A1174-1/4IN | 6.35 | 0.2500 | 1/4" | 70 | 18 | 6.35 |
| A1174-8 | 8 | 0.3150 | | 79 | 22 | 8 |
| A1174-3/8IN | 9.525 | 0.3750 | 3/8" | 89 | 26 | 9.525 |
| A1174-10 | 10 | 0.3937 | | 89 | 26 | 10 |
| A1174-12 | 12 | 0.4724 | | 102 | 30 | 12 |
| A1174-1/2IN | 12.7 | 0.5000 | 1/2" | 102 | 30 | 12.7 |
| A1174-16 | 16 | 0.6299 | | 115 | 34 | 16 |
| A1174-20 | 20 | 0.7874 | | 131 | 40 | 20 |

**WALTER SELECT**

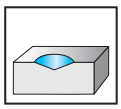
●● Primary application ● Other application

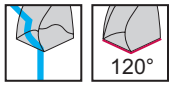
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# 120° solid carbide NC spot drills

## A1174C

## NC 120°

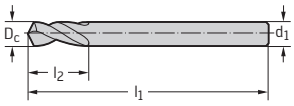





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | | | ● | ●● | ●● | | ●● |

B1

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | $l_2$ mm | h6 |
|---|---|---|---|---|---|---|
| A1174C-3 | 3 | 0.1181 | | 46 | 11 | 3 |
| A1174C-4 | 4 | 0.1575 | | 55 | 15 | 4 |
| A1174C-5 | 5 | 0.1969 | | 62 | 16 | 5 |
| A1174C-6 | 6 | 0.2362 | | 66 | 17 | 6 |
| A1174C-1/4IN | 6.35 | 0.2500 | 1/4" | 70 | 18 | 6.35 |
| A1174C-8 | 8 | 0.3150 | | 79 | 22 | 8 |
| A1174C-3/8IN | 9.525 | 0.3750 | 3/8" | 89 | 26 | 9.525 |
| A1174C-10 | 10 | 0.3937 | | 89 | 26 | 10 |
| A1174C-12 | 12 | 0.4724 | | 102 | 30 | 12 |
| A1174C-1/2IN | 12.7 | 0.5000 | 1/2" | 102 | 30 | 12.7 |
| A1174C-16 | 16 | 0.6299 | | 115 | 34 | 16 |
| A1174C-20 | 20 | 0.7874 | | 131 | 40 | 20 |

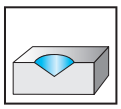
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# 90° HSS NC spot drills

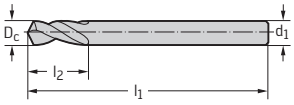
## A1115L



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

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A1115L-4 | 4 | 0.1575 | | 100 | 12 | 4 |
| A1115L-5 | 5 | 0.1969 | | 120 | 15 | 5 |
| A1115L-6 | 6 | 0.2362 | | 140 | 20 | 6 |
| A1115L-1/4IN | 6.35 | 0.2500 | 1/4" | 140 | 20 | 6.35 |
| A1115L-8 | 8 | 0.3150 | | 140 | 25 | 8 |
| A1115L-3/8IN | 9.525 | 0.3750 | 3/8" | 170 | 25 | 9.525 |
| A1115L-10 | 10 | 0.3937 | | 170 | 25 | 10 |
| A1115L-12 | 12 | 0.4724 | | 170 | 30 | 12 |
| A1115L-1/2IN | 12.7 | 0.5000 | 1/2" | 170 | 30 | 12.7 |
| A1115L-5/8IN | 15.875 | 0.625 | 5/8" | 200 | 35 | 15.875 |
| A1115L-3/4IN | 19.05 | 0.7500 | 3/4" | 200 | 40 | 19.05 |
| A1115L-20 | 20 | 0.7874 | | 200 | 40 | 20 |
| A1115L-1IN | 25.4 | 1.0000 | 1.0" | 200 | 40 | 25.4 |

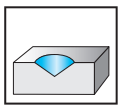
**WALTER SELECT**

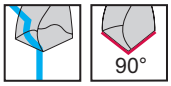
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# 90° HSS NC spot drills

## A1115

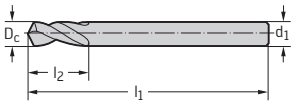





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ●● | ● | | ●● |

B1

### Tool




Cylindrical shank

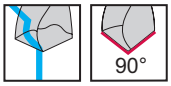
| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|
| A1115-4 | 4 | 0.1575 | 55 | 18 | 4 |
| A1115-5 | 5 | 0.1969 | 62 | 21 | 5 |
| A1115-6 | 6 | 0.2362 | 66 | 22 | 6 |
| A1115-8 | 8 | 0.3150 | 79 | 30 | 8 |
| A1115-10 | 10 | 0.3937 | 89 | 34 | 10 |
| A1115-12 | 12 | 0.4724 | 102 | 41 | 12 |
| A1115-16 | 16 | 0.6299 | 115 | 46 | 16 |
| A1115-20 | 20 | 0.7874 | 131 | 53 | 20 |

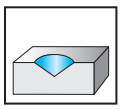
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# 90° HSS NC spot drills
## A1115S

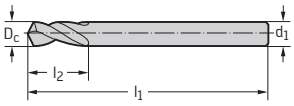


B1

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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A1115S-2 | 2 | 0.0787 | | 40 | 8 | 2 |
| A1115S-3 | 3 | 0.1181 | | 50 | 10 | 3 |
| A1115S-4 | 4 | 0.1575 | | 52 | 12 | 4 |
| A1115S-5 | 5 | 0.1969 | | 60 | 15 | 5 |
| A1115S-6 | 6 | 0.2362 | | 66 | 20 | 6 |
| A1115S-1/4IN | 6.35 | 0.2500 | 1/4" | 66 | 20 | 6.35 |
| A1115S-8 | 8 | 0.3150 | | 79 | 25 | 8 |
| A1115S-3/8IN | 9.525 | 0.3750 | 3/8" | 89 | 25 | 9.525 |
| A1115S-10 | 10 | 0.3937 | | 89 | 25 | 10 |
| A1115S-12 | 12 | 0.4724 | | 102 | 30 | 12 |
| A1115S-1/2IN | 12.7 | 0.5000 | 1/2" | 102 | 35 | 12.7 |
| A1115S-14 | 14 | 0.5512 | | 115 | 35 | 14 |
| A1115S-5/8IN | 15.875 | 0.6250 | 5/8" | 115 | 35 | 15.875 |
| A1115S-16 | 16 | 0.6299 | | 115 | 35 | 16 |
| A1115S-18 | 18 | 0.7087 | | 130 | 40 | 18 |
| A1115S-3/4IN | 19.05 | 0.7500 | 3/4" | 131 | 40 | 19.05 |
| A1115S-20 | 20 | 0.7874 | | 131 | 40 | 20 |
| A1115S-1IN | 25.4 | 1.0000 | 1.0" | 138 | 45 | 25.4 |

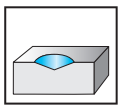
**WALTER SELECT**

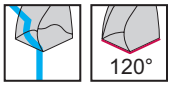
●● Primary application ● Other application

Best tool for → Good = → Average = → Poor = machining conditions

# 120° HSS NC spot drills

## A1114L

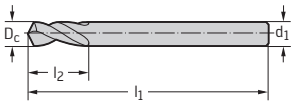





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ●● | ● | | ●● |

B1

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A1114L-4 | 4 | 0.1575 | | 100 | 12 | 4 |
| A1114L-5 | 5 | 0.1969 | | 120 | 15 | 5 |
| A1114L-6 | 6 | 0.2362 | | 140 | 20 | 6 |
| A1114L-1/4IN | 6.35 | 0.2500 | 1/4" | 140 | 20 | 6.35 |
| A1114L-8 | 8 | 0.3150 | | 140 | 25 | 8 |
| A1114L-3/8IN | 9.525 | 0.3750 | 3/8" | 170 | 25 | 9.525 |
| A1114L-10 | 10 | 0.3937 | | 170 | 25 | 10 |
| A1114L-12 | 12 | 0.4724 | | 170 | 30 | 12 |
| A1114L-1/2IN | 12.7 | 0.5000 | 1/2" | 170 | 30 | 12.7 |

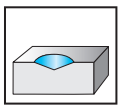
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

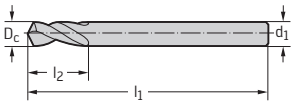
# 120° HSS NC spot drills

## A1114

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

### Tool




Cylindrical shank

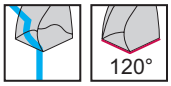
| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | $l_2$ mm | f11 |
|---|---|---|---|---|---|
| A1114-4 | 4 | 0.1575 | 55 | 18 | 4 |
| A1114-5 | 5 | 0.1969 | 62 | 21 | 5 |
| A1114-6 | 6 | 0.2362 | 66 | 22 | 6 |
| A1114-8 | 8 | 0.3150 | 79 | 30 | 8 |
| A1114-10 | 10 | 0.3937 | 89 | 34 | 10 |
| A1114-12 | 12 | 0.4724 | 102 | 41 | 12 |
| A1114-16 | 16 | 0.6299 | 115 | 46 | 16 |
| A1114-20 | 20 | 0.7874 | 131 | 53 | 20 |

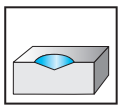
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# 120° HSS NC spot drills
## A1114S

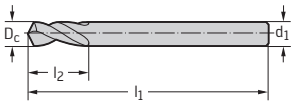


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ● | ●● | ●● | ● | | ●● |

B1

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | $l_2$ mm | h8 |
|---|---|---|---|---|---|---|
| A1114S-2 | 2 | 0.0787 | | 40 | 8 | 2 |
| A1114S-3 | 3 | 0.1181 | | 50 | 10 | 3 |
| A1114S-4 | 4 | 0.1575 | | 52 | 12 | 4 |
| A1114S-5 | 5 | 0.1969 | | 60 | 15 | 5 |
| A1114S-6 | 6 | 0.2362 | | 66 | 20 | 6 |
| A1114S-1/4IN | 6.35 | 0.2500 | 1/4" | 66 | 20 | 6.35 |
| A1114S-8 | 8 | 0.3150 | | 79 | 25 | 8 |
| A1114S-3/8IN | 9.525 | 0.3750 | 3/8" | 89 | 25 | 9.525 |
| A1114S-10 | 10 | 0.3937 | | 89 | 25 | 10 |
| A1114S-12 | 12 | 0.4724 | | 102 | 30 | 12 |
| A1114S-1/2IN | 12.7 | 0.5000 | 1/2" | 102 | 35 | 12.7 |
| A1114S-14 | 14 | 0.5512 | | 115 | 35 | 14 |
| A1114S-5/8IN | 15.875 | 0.6250 | 5/8" | 115 | 35 | 15.875 |
| A1114S-3/4IN | 19.05 | 0.7500 | 3/4" | 131 | 40 | 19.05 |
| A1114S-1IN | 25.4 | 1.0000 | 1.0" | 138 | 45 | 25.4 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Solid carbide and HSS center drills

B1

| Machining | | |  | | |
|---|---|---|---|---|---|
| **Shape** | A | A | A | A | A |
| |  |  |  |  |  |
| **Designation** | K1161XPL | K1161 | K1911 | K1811 | K1411S |
| **Standard** | DIN 333-A | DIN 333-A | B.S. 328 | ANSI B94.11 | Walter |
| **Cutting tool material** | VHM | VHM | HSS | HSS | HSS |
| **Coating / grade** | Carbide | Carbide | HSS | HSS | HSS |
| **Shank** | XPL | uncoated | uncoated | uncoated | uncoated |
| **Diameter range** | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **P** Stainless steel | ●● | ●● | ●● | ●● | ●● |
| **M** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **K** Non-ferrous metals | ●● | ●● | ●● | ●● | ●● |
| **N** Materials with difficult cutting properties | ●● | ●● | ●● | ●● | ●● |
| **S** Hard materials | ●● | ●● | ●● | ●● | ●● |
| **H** Other | ●● | ● | | | |
| **O** Andere | ●● | ●● | ●● | ●● | ●● |
| **Page in catalog** | B 420 | B 420 | B 421 | B 422 | B 423 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | K1161XPL | K1161 | K1911 | K1811 | K1411S |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide and HSS center drills



| Machining |  | |  |  |  |
|---|---|---|---|---|---|
| **Shape** | A | A | R | A | B |
| |  |  |  |  |  |
| **Designation** | K1411M | K1411L | K1313 | K1311 | K1215 |
| **Standard** | Walter | Walter | Walter | Walter | DIN 333-B |
| **Cutting tool material** | HSS | HSS | HSS | HSS | HSS |
| **Coating / grade** | HSS | HSS | HSS | HSS | HSS |
| **Shank** | uncoated | uncoated | uncoated | uncoated | uncoated |
| **Diameter range** | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **P** Stainless steel | ●● | ●● | ●● | ●● | ●● |
| **M** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **K** Non-ferrous metals | ●● | ●● | ●● | ●● | ●● |
| **N** Materials with difficult cutting properties | ●● | ●● | ●● | ●● | ●● |
| **S** Hard materials | ●● | ●● | ●● | ●● | ●● |
| **H** Other | | | | | |
| **O** Andere | ●● | ●● | ●● | ●● | ●● |
| **Page in catalog** | B 424 | B 425 | B 426 | B 427 | B 428 |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | K1411M | K1411L | K1313 | K1311 | K1215 |

**WALTER SELECT**

●● Primary application ● Other application

# Solid carbide and HSS center drills

B1

| Machining | | | | | |
|---|---|---|---|---|---|
| |  |  | | |  |
| **Shape** | A | R | R | R | A |
| |  |  |  |  |  |
| **Designation** | K1131 | K1114 | K1113TIN | K1113 | K1112 |
| **Standard** | DIN 333-A | DIN 333-R | DIN 333-R | DIN 333-R | DIN 333-A |
| **Cutting tool material** | HSS | HSS | HSS | HSS | HSS |
| **Coating / grade** | HSS | HSS | HSS | HSS | HSS |
| **Shank** | uncoated | uncoated | TIN | uncoated | uncoated |
| **Diameter range** | Cylindrical shank | Cylindrical shank with flat | Cylindrical shank | Cylindrical shank | Cylindrical shank with flat |
| **P** Stainless steel | ●● | ●● | ●● | ●● | ●● |
| **M** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **K** Non-ferrous metals | ●● | ●● | ●● | ●● | ●● |
| **N** Materials with difficult cutting properties | ●● | ●● | ●● | ●● | ●● |
| **S** Hard materials | ●● | ●● | ●● | ●● | ●● |
| **H** Other | | | | | |
| **O** Andere | ●● | ●● | ●● | ●● | ●● |
| **Page in catalog** | B 429 | B 430 | B 431 | B 431 | B 432 |
| **QR code** |  |  |  |  |  |
| www.walter-tools.com/woc/ | K1131 | K1114 | K1113TIN | K1113 | K1112 |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide and HSS center drills

| Machining |  | |
|---|---|---|
| **Shape** | A | A |
| |  |  |
| **Designation** | K1111TIN | K1111 |
| **Standard** | DIN 333-A | DIN 333-A |
| **Cutting tool material** | HSS | HSS |
| **Coating / grade** | HSS | HSS |
| **Shank** | TIN | uncoated |
| **Diameter range** | Cylindrical shank | Cylindrical shank |
| **P** Stainless steel | ●● | ●● |
| **M** Cast iron | ●● | ●● |
| **K** Non-ferrous metals | ●● | ●● |
| **N** Materials with difficult cutting properties | ●● | ●● |
| **S** Hard materials | ●● | ●● |
| **H** Other | | |
| **O** Andere | ●● | ●● |
| **Page in catalog** | B 433 | B 433 |
| **QR code** | | |
| www.walter-tools.com/woc/ | K1111TIN | K1111 |

B1

**WALTER SELECT**

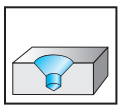
●● Primary application ● Other application

# Solid carbide center drills
# K1161 / K1161XPL


– For straight contact surfaces in accordance with DIN 332 A
– Form A

DIN 333

60°

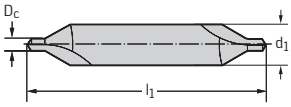


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | ● | ●● |
| XPL | ●● | ●● | ●● | ●● | ●● | ●● | ●● |

B1

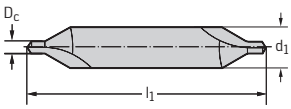
## Tool

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1161-0.5 | 0.5 | 0.020 | 25 | 3.15 |
| K1161-0.8 | 0.8 | 0.032 | 25 | 3.15 |
| K1161-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1161-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1161-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1161-2 | 2 | 0.079 | 40 | 5 |
| K1161-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1161-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1161-4 | 4 | 0.158 | 56 | 10 |
| K1161-5 | 5 | 0.197 | 63 | 12.5 |
| K1161-6.3 | 6.3 | 0.248 | 71 | 16 |




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1161XPL-0.5 | 0.5 | 0.020 | 25 | 3.15 |
| K1161XPL-0.8 | 0.8 | 0.032 | 25 | 3.15 |
| K1161XPL-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1161XPL-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1161XPL-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1161XPL-2 | 2 | 0.079 | 40 | 5 |
| K1161XPL-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1161XPL-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1161XPL-4 | 4 | 0.158 | 56 | 10 |
| K1161XPL-5 | 5 | 0.197 | 63 | 12.5 |
| K1161XPL-6.3 | 6.3 | 0.248 | 71 | 16 |




Cylindrical shank

$D_c$ 0.5/0.8 mm. single sided

**WALTER SELECT**

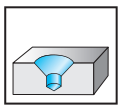
●● Primary application ● Other application

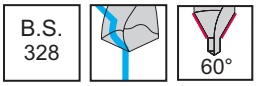
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills

## K1911

– For straight contact surfaces in accordance with DIN 332 A
– Form A

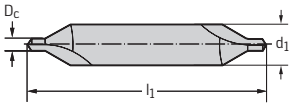





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

## Tool




Cylindrical shank

| Designation | Size | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | h9 |
|---|---|---|---|---|---|---|
| K1911-BS1 | B.S. 1 | 1.191 | 0.047 | 1/8“ | 38.1 | 3.175 |
| K1911-BS2 | B.S. 2 | 1.588 | 0.063 | 3/16“ | 44.5 | 4.763 |
| K1911-BS3 | B.S. 3 | 2.381 | 0.094 | 1/4“ | 50.8 | 6.35 |
| K1911-BS4 | B.S. 4 | 3.175 | 0.125 | 5/16“ | 57.2 | 7.938 |
| K1911-BS5 | B.S. 5 | 4.763 | 0.188 | 7/16“ | 63.5 | 11.113 |
| K1911-BS6 | B.S. 6 | 6.35 | 0.250 | 5/8“ | 76.2 | 15.875 |
| K1911-BS7 | B.S. 7 | 7.938 | 0.313 | 3/4“ | 88.9 | 19.05 |

**WALTER SELECT**

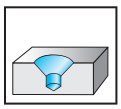
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills

## K1811

– For straight contact surfaces in accordance with DIN 332 A
– Form A



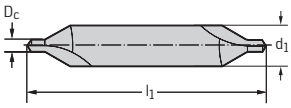
ANSI B 94.11

60°

B1

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

## Tool




Cylindrical shank

| Designation | Size | $D_c$ mm | $D_c$ in | $D_{c\ Inch/Nr}$ | $l_1$ mm | h9 |
|---|---|---|---|---|---|---|
| K1811-NO.00 | NR. 00 | 0.635 | 0.025 | 1/8" | 31 | 3.175 |
| K1811-NO.0 | NR. 0 | 0.794 | 0.031 | 1/8" | 31 | 3.175 |
| K1811-NO1 | NR. 1 | 1.191 | 0.047 | 1/8" | 31.8 | 3.175 |
| K1811-NO2 | NR. 2 | 1.984 | 0.078 | 3/16" | 47.6 | 4.763 |
| K1811-NO3 | NR. 3 | 2.778 | 0.109 | 1/4" | 50.8 | 6.35 |
| K1811-NO4 | NR. 4 | 3.175 | 0.125 | 5/16" | 54 | 7.938 |
| K1811-NO5 | NR. 5 | 4.763 | 0.188 | 7/16" | 69.9 | 11.113 |
| K1811-NO6 | NR. 6 | 5.556 | 0.219 | 1/2" | 76.2 | 12.7 |
| K1811-NO7 | NR. 7 | 6.35 | 0.250 | 5/8" | 82.6 | 15.875 |
| K1811-NO8 | NR. 8 | 7.938 | 0.313 | 3/4" | 88.9 | 19.05 |

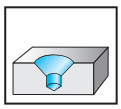
**WALTER SELECT**

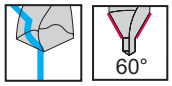
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills, extra long
# K1411S

– For straight contact surfaces in accordance with DIN 332 A
– Form A

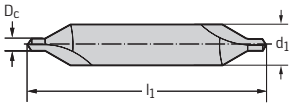





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1411S-0.75X3.5 | 0.75 | 0.030 | 60 | 3.5 |
| K1411S-1X4 | 1 | 0.039 | 60 | 4 |
| K1411S-1.5X5 | 1.5 | 0.059 | 60 | 5 |
| K1411S-2X6 | 2 | 0.079 | 80 | 6 |
| K1411S-2.5X8 | 2.5 | 0.098 | 80 | 8 |
| K1411S-3X8 | 3 | 0.118 | 80 | 8 |
| K1411S-4X10 | 4 | 0.158 | 100 | 10 |
| K1411S-5X14 | 5 | 0.197 | 120 | 14 |

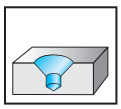
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills, extra long
# K1411M

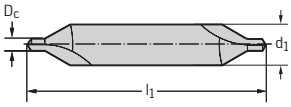
– For straight contact surfaces in accordance with DIN 332 A
– Form A




B1

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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1411M-0.75X3.5 | 0.75 | 0.030 | 120 | 3.5 |
| K1411M-1X4 | 1 | 0.039 | 120 | 4 |
| K1411M-1.5X5 | 1.5 | 0.059 | 120 | 5 |
| K1411M-2X6 | 2 | 0.079 | 120 | 6 |
| K1411M-2.5X8 | 2.5 | 0.098 | 120 | 8 |
| K1411M-3X8 | 3 | 0.118 | 120 | 8 |
| K1411M-4X10 | 4 | 0.158 | 120 | 10 |

**WALTER SELECT**

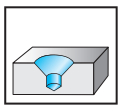
●● Primary application ● Other application

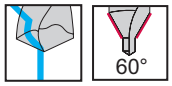
Best tool for → Good = → Average = → Poor = machining conditions

# HSS center drills, extra long

## K1411L

– For straight contact surfaces in accordance with DIN 332 A
– Form A

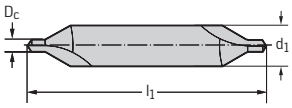





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1411L-2X5 | 2 | 0.079 | 200 | 5 |
| K1411L-2.5X6.3 | 2.5 | 0.098 | 200 | 6.3 |
| K1411L-3.15X8 | 3.15 | 0.124 | 200 | 8 |
| K1411L-4X10 | 4 | 0.158 | 200 | 10 |

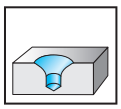
**WALTER SELECT**

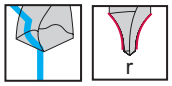
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills
# K1313

– Form R

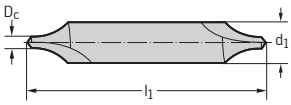





B1

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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1313-1 | 1 | 0.039 | 31.5 | 4 |
| K1313-1.5 | 1.5 | 0.059 | 40 | 5 |
| K1313-2 | 2 | 0.079 | 45 | 6 |
| K1313-2.5 | 2.5 | 0.098 | 50 | 8 |
| K1313-3 | 3 | 0.118 | 56 | 10 |
| K1313-4 | 4 | 0.158 | 66 | 12 |

**WALTER SELECT**

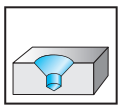
●● Primary application ● Other application

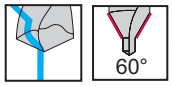
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills

## K1311

– For straight contact surfaces in accordance with DIN 332 A
– Form A

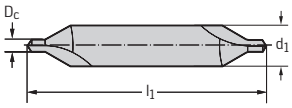





| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1311-0.63 | 0.63 | 0.025 | 20 | 3.15 |
| K1311-0.75 | 0.75 | 0.030 | 35 | 3.5 |
| K1311-1 | 1 | 0.039 | 31.5 | 4 |
| K1311-1.5 | 1.5 | 0.059 | 40 | 5 |
| K1311-1.6 | 1.6 | 0.063 | 40 | 5 |
| K1311-2 | 2 | 0.079 | 45 | 6 |
| K1311-2.5 | 2.5 | 0.098 | 50 | 8 |
| K1311-3 | 3 | 0.118 | 56 | 10 |
| K1311-3.15 | 3.15 | 0.124 | 56 | 10 |
| K1311-4 | 4 | 0.158 | 66 | 12 |
| K1311-5 | 5 | 0.197 | 78 | 14 |
| K1311-6 | 6 | 0.236 | 90 | 18 |

$D_c$ 0.63 mm, single sided

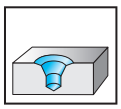
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills
# K1215

– Form B



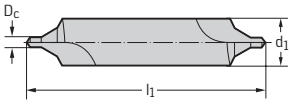
DIN 333

120°/60°

B1

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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1215-1 | 1 | 0.039 | 35.5 | 4 |
| K1215-1.25 | 1.25 | 0.049 | 40 | 5 |
| K1215-1.6 | 1.6 | 0.063 | 45 | 6.3 |
| K1215-2 | 2 | 0.079 | 50 | 8 |
| K1215-2.5 | 2.5 | 0.098 | 56 | 10 |
| K1215-3.15 | 3.15 | 0.124 | 60 | 11.2 |
| K1215-4 | 4 | 0.158 | 67 | 14 |
| K1215-5 | 5 | 0.197 | 75 | 18 |
| K1215-6.3 | 6.3 | 0.248 | 80 | 20 |
| K1215-8 | 8 | 0.315 | 100 | 25 |
| K1215-10 | 10 | 0.394 | 125 | 31.5 |

**WALTER SELECT**

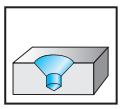
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills, left

## K1131

– For straight contact surfaces in accordance with DIN 332 A
– Form A

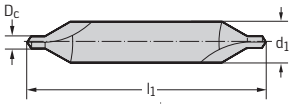


DIN 333 |  | 60° | LH

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

B1

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1131-0.5 | 0.5 | 0.020 | 25 | 3.15 |
| K1131-0.8 | 0.8 | 0.032 | 25 | 3.15 |
| K1131-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1131-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1131-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1131-2 | 2 | 0.079 | 40 | 5 |
| K1131-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1131-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1131-4 | 4 | 0.158 | 56 | 10 |
| K1131-5 | 5 | 0.197 | 63 | 12.5 |
| K1131-6.3 | 6.3 | 0.248 | 71 | 16 |

$D_c$ 0.5/0.8 mm, single sided

**WALTER SELECT**

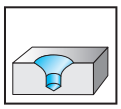
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills

## K1114

– Form R with flat section

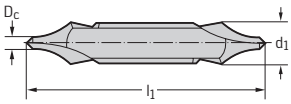


DIN 333


B1

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

### Tool




Cylindrical shank with flat

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1114-2 | 2 | 0.079 | 40 | 5 |
| K1114-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1114-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1114-4 | 4 | 0.158 | 56 | 10 |
| K1114-5 | 5 | 0.197 | 63 | 12.5 |

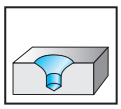
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills
# K1113 / K1113TIN


– Form R



DIN 333

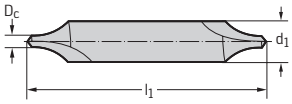


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | | ●● |
| TIN | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

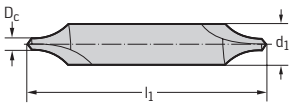
## Tool

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1113-0.5 | 0.5 | 0.020 | 25 | 3.15 |
| K1113-0.8 | 0.8 | 0.032 | 25 | 3.15 |
| K1113-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1113-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1113-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1113-2 | 2 | 0.079 | 40 | 5 |
| K1113-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1113-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1113-4 | 4 | 0.158 | 56 | 10 |
| K1113-5 | 5 | 0.197 | 63 | 12.5 |
| K1113-6.3 | 6.3 | 0.248 | 71 | 16 |
| K1113-8 | 8 | 0.315 | 80 | 20 |
| K1113-10 | 10 | 0.394 | 100 | 25 |




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1113TIN-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1113TIN-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1113TIN-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1113TIN-2 | 2 | 0.079 | 40 | 5 |
| K1113TIN-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1113TIN-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1113TIN-4 | 4 | 0.158 | 56 | 10 |
| K1113TIN-5 | 5 | 0.197 | 63 | 12.5 |




Cylindrical shank

$D_c$ 0.5/0.8 mm, single sided

**WALTER SELECT**

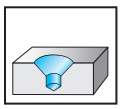
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills

## K1112

– For straight contact surfaces in accordance with DIN 332 A
– Form A with flat section



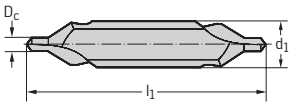
DIN 333

60°

B1

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

## Tool




Cylindrical shank with flat

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1112-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1112-2 | 2 | 0.079 | 40 | 5 |
| K1112-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1112-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1112-4 | 4 | 0.158 | 56 | 10 |
| K1112-5 | 5 | 0.197 | 63 | 12.5 |

**WALTER SELECT**

●● Primary application ● Other application

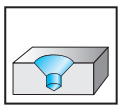
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS center drills
# K1111 / K1111TIN

– For straight contact surfaces in accordance with DIN 332 A
– Form A

DIN 333

60°

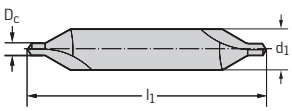


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ●● | | ●● |
| TIN | ●● | ●● | ●● | ●● | ●● | | ●● |

B1

## Tool

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1111-0.5 | 0.5 | 0.020 | 25 | 3.15 |
| K1111-0.8 | 0.8 | 0.032 | 25 | 3.15 |
| K1111-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1111-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1111-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1111-2 | 2 | 0.079 | 40 | 5 |
| K1111-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1111-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1111-4 | 4 | 0.158 | 56 | 10 |
| K1111-5 | 5 | 0.197 | 63 | 12.5 |
| K1111-6.3 | 6.3 | 0.248 | 71 | 16 |
| K1111-8 | 8 | 0.315 | 80 | 20 |
| K1111-10 | 10 | 0.394 | 100 | 25 |
| K1111-12.5 | 12.5 | 0.492 | 125 | 31.5 |




Cylindrical shank

| Designation | $D_c$ mm | $D_c$ in | $l_1$ mm | h9 |
|---|---|---|---|---|
| K1111TIN-1 | 1 | 0.039 | 31.5 | 3.15 |
| K1111TIN-1.25 | 1.25 | 0.049 | 31.5 | 3.15 |
| K1111TIN-1.6 | 1.6 | 0.063 | 35.5 | 4 |
| K1111TIN-2 | 2 | 0.079 | 40 | 5 |
| K1111TIN-2.5 | 2.5 | 0.098 | 45 | 6.3 |
| K1111TIN-3.15 | 3.15 | 0.124 | 50 | 8 |
| K1111TIN-4 | 4 | 0.158 | 56 | 10 |
| K1111TIN-5 | 5 | 0.197 | 63 | 12.5 |



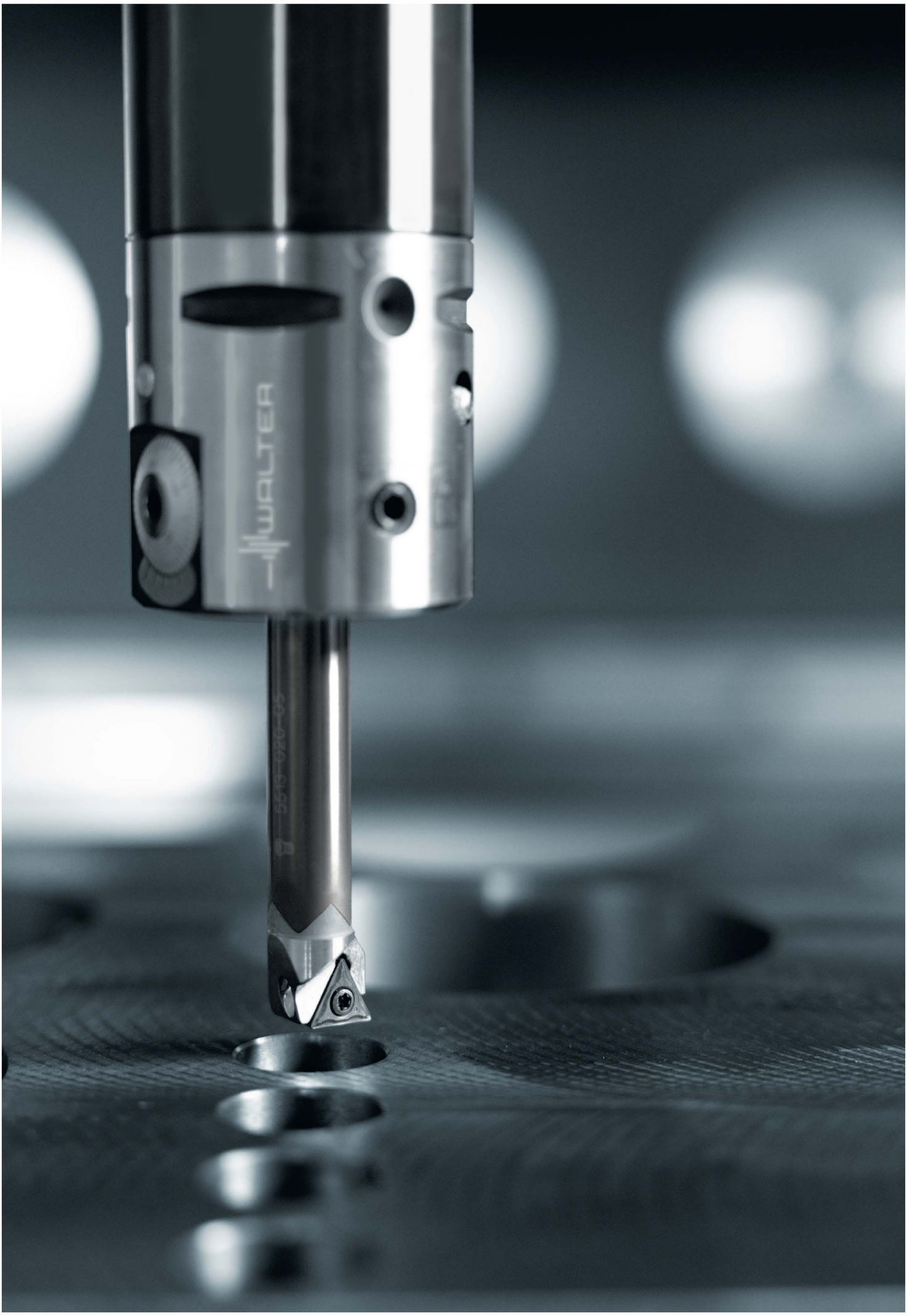

Cylindrical shank

$D_c$ 0.5/0.8 mm, single sided

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions


WALTER

# B – Drilling


| B2: Boring and precision boring | | Page |
|---|---|---|
| **Indexable inserts for boring and precision boring** | Order pages | |
| | Indexable inserts for boring and precision boring | 436 |
| **Tools for boring and precision boring** | Product range overview | |
| | Boring | 452 |
| | Precision boring | 456 |
| | Order pages | |
| | Boring | 460 |
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| **Cartridges** | Product range overview | |
| | ISO cartridges | 552 |
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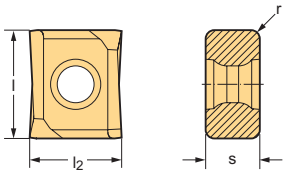
| | Precision boring cartridges | 555 |
| | Order pages | |
| | Cartridges | 557 |
| **HSS core drills and countersinkers** | Product range overview | |
| | HSS core drills and countersinkers | 578 |
| | Order pages | |
| | HSS core drills and countersinkers | 579 |

# Tangential rhombic
# P4130 / P4160 / P4460

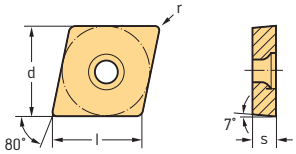



## Indexable inserts

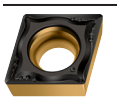
| | Designation | Number of cutting edges | l mm | $l_2$ mm | s mm | r mm | l in | $l_2$ in | s in | r in | P HC WKP30S | P HC WSM20S | M HC WSM20S | K HC WKK10S | K HC WKK20S | N HC WNN15 | N HW WK10 | S HC WSM20S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | P4130-4R12-E47 | 2 | 14 | 10.48 | 7 | 1.2 | 0.551 | 0.413 | 0.276 | 0.047 | 😐 | | | ☺ | 😐 | | | |
|  | P4160-2L08-E47 | 2 | 10 | 9.69 | 5 | 0.8 | 0.394 | 0.381 | 0.197 | 0.031 | 😐 | ☹ | 😐 | | 😐 | | | 😐 |
| | P4160-2R04-E47 | 2 | 10 | 9.69 | 5 | 0.4 | 0.394 | 0.381 | 0.197 | 0.016 | 😐 | ☹ | 😐 | | 😐 | | | 😐 |
| | P4160-2R08-E47 | 2 | 10 | 9.69 | 5 | 0.8 | 0.394 | 0.381 | 0.197 | 0.031 | 😐 | ☹ | 😐 | | 😐 | | | 😐 |
|  | P4460-2R04-G88 | 2 | 10 | 9.69 | 5 | 0.4 | 0.394 | 0.381 | 0.197 | 0.016 | | | | | | ☺ | | |
| | P4460-2R08-G88 | 2 | 10 | 9.69 | 5 | 0.8 | 0.394 | 0.381 | 0.197 | 0.031 | | | | | | ☺ | ☺ | |

HC = Coated carbide
HW = Uncoated carbide

# Positive rhombic 80°
# CCGT / CCMT
# Tiger·tec® Gold




## Indexable inserts

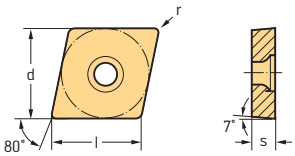
| | ANSI Designation | Designation | l in | r in | f in | $a_p$ in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WPP20S | P HC WPP30G | P HC WSM20S | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM30S | K HC WKK10S | K HC WKK20S | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | CCGT2(1.5)1-MK4 | CCGT060204-MK4 | 0.254 | 0.016 | | | | | | | | | | | | | | 😐 | | | | |
| | CCGT2(1.5)2-MK4 | CCGT060208-MK4 | 0.254 | 0.031 | | | | | | | | | | | | | | 😐 | | | | |
| | CCGT3(2.5)1-MK4 | CCGT09T304-MK4 | 0.381 | 0.016 | | | | | | | | | | | | | | 😐 | | | | |
| | CCGT3(2.5)2-MK4 | CCGT09T308-MK4 | 0.381 | 0.031 | | | | | | | | | | | | | | 😐 | | | | |
| | CCGT432-MK4 | CCGT120408-MK4 | 0.508 | 0.031 | | | | | | | | | | | | | | 😐 | | | | |
|  | CCMT2(1.5)1-MM4 | CCMT060204-MM4 | 0.254 | 0.016 | 0.003-0.008 | 0.016-0.079 | | | | | | | | ☺ | | 😐 | | | | ☺ | | 😐 | |
| | CCMT2(1.5)2-MM4 | CCMT060208-MM4 | 0.254 | 0.031 | 0.005-0.010 | 0.020-0.079 | | | | | | | | ☺ | | 😐 | | | | ☺ | | 😐 | |
| | CCMT3(2.5)1-MM4 | CCMT09T304-MM4 | 0.381 | 0.016 | 0.003-0.010 | 0.016-0.118 | | | | | | | | ☺ | | 😐 | | | | ☺ | | 😐 | |
| | CCMT3(2.5)2-MM4 | CCMT09T308-MM4 | 0.381 | 0.031 | 0.005-0.013 | 0.020-0.118 | | | | | | | | ☺ | | 😐 | | | | ☺ | | 😐 | |
| | CCMT432-MM4 | CCMT120408-MM4 | 0.508 | 0.031 | 0.005-0.013 | 0.020-0.138 | | | | | | | | | | 😐 | | | | | | 😐 | |
|  | CCGT2(1.5)1-MP4 | CCGT060204-MP4 | 0.254 | 0.016 | 0.003-0.008 | 0.016-0.079 | | | 😐 | | | | | | | | | | | | | | |
| | CCGT3(2.5)1-MP4 | CCGT09T304-MP4 | 0.381 | 0.016 | 0.003-0.010 | 0.016-0.118 | | ☺ | 😐 | | | | | | | | | | | | | | |
| | CCGT3(2.5)2-MP4 | CCGT09T308-MP4 | 0.381 | 0.031 | 0.005-0.013 | 0.020-0.118 | | ☺ | 😐 | | | | | | | | | | | | | | |
| | CCGT432-MP4 | CCGT120408-MP4 | 0.508 | 0.031 | 0.005-0.013 | 0.020-0.138 | | ☺ | 😐 | | | | | | | | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK20S: CCGT060204-MK4 WKK20S

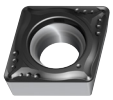
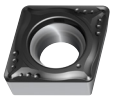
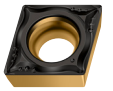
HC = Coated carbide

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Positive rhombic 80°
# CCGT / CCMT
# Tiger·tec® Gold



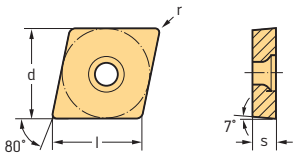

## Indexable inserts

| | ANSI Designation | Designation | l in | r in | f in | $a_p$ in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WPP20S | P HC WPP30G | P HC WSM20S | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM30S | K HC WKK10S | K HC WKK20S | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | CCMT2(1.5)0.5-E47 | CCMT060202-E47 | 0.254 | 0.008 | | | | | | ☹ | | ☹ | | | | ☹ | ☹ | | | | | ☹ | ☹ |
| | CCMT2(1.5)1-E47 | CCMT060204-E47 | 0.254 | 0.016 | | | | | | ☹ | | ☹ | | | | ☹ | ☹ | | | | | ☹ | ☹ |
| | CCMT3(2.5)0.5-E47 | CCMT09T302-E47 | 0.381 | 0.008 | | | | | | ☹ | | ☹ | | | | ☹ | | | | | | ☹ | |
| | CCMT3(2.5)1-E47 | CCMT09T304-E47 | 0.381 | 0.016 | | | | | | ☹ | | ☹ | | | | ☹ | ☹ | | | | | ☹ | ☹ |
| | CCMT3(2.5)2-E47 | CCMT09T308-E47 | 0.381 | 0.031 | | | | | | ☹ | | ☹ | | | | ☹ | ☹ | | | | | ☹ | ☹ |
| | CCMT431-E47 | CCMT120404-E47 | 0.508 | 0.016 | | | | | | ☹ | | ☹ | | | | ☹ | ☹ | | | | | ☹ | ☹ |
| | CCMT432-E47 | CCMT120408-E47 | 0.508 | 0.031 | | | | | | ☹ | | ☹ | | | | ☹ | ☹ | | | | | ☹ | ☹ |
| | CCMT433-E47 | CCMT120412-E47 | 0.508 | 0.047 | | | | | | ☹ | | ☹ | | | | ☹ | | | | | | ☹ | |
|  | CCMT2(1.5)1-MK4 | CCMT060204-MK4 | 0.254 | 0.016 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT2(1.5)2-MK4 | CCMT060208-MK4 | 0.254 | 0.031 | | | | | | | | | | | | | | | ☹ | | | | |
| | CCMT3(2.5)1-MK4 | CCMT09T304-MK4 | 0.381 | 0.016 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT3(2.5)2-MK4 | CCMT09T308-MK4 | 0.381 | 0.031 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT431-MK4 | CCMT120404-MK4 | 0.508 | 0.016 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT432-MK4 | CCMT120408-MK4 | 0.508 | 0.031 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
|  | CCMT2(1.5)1-MM4 | CCMT060204-MM4 | 0.254 | 0.016 | 0.003-0.008 | 0.016-0.079 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT2(1.5)2-MM4 | CCMT060208-MM4 | 0.254 | 0.031 | 0.005-0.010 | 0.020-0.079 | ☹ | | | | | | ☹ | | | ☹ | | | | | | ☹ | |
| | CCMT3(2.5)1-MM4 | CCMT09T304-MM4 | 0.381 | 0.016 | 0.003-0.010 | 0.016-0.118 | ☹ | | | | | | ☹ | ☺ | ☺ | ☹ | ☹ | | | ☺ | ☺ | ☹ | ☹ |
| | CCMT3(2.5)2-MM4 | CCMT09T308-MM4 | 0.381 | 0.031 | 0.005-0.013 | 0.020-0.118 | ☹ | | | | | | ☹ | ☺ | ☺ | ☹ | ☹ | | | ☺ | ☺ | ☹ | ☹ |
| | CCMT431-MM4 | CCMT120404-MM4 | 0.508 | 0.016 | 0.005-0.010 | 0.016-0.138 | ☹ | | | | | | ☹ | | | ☹ | | | | | | ☹ | |
| | CCMT432-MM4 | CCMT120408-MM4 | 0.508 | 0.031 | 0.005-0.013 | 0.020-0.138 | ☹ | | | | | | ☹ | | ☺ | ☹ | | | | | ☺ | ☹ | |
|  | CCMT2(1.5)1-MP4 | CCMT060204-MP4 | 0.254 | 0.016 | 0.003-0.008 | 0.016-0.079 | | ☺ | ☹ | | | | | | | | | | | | | | |
| | CCMT2(1.5)2-MP4 | CCMT060208-MP4 | 0.254 | 0.031 | 0.005-0.010 | 0.020-0.079 | | ☺ | ☹ | | | | | | | | | | | | | | |
| | CCMT3(2.5)1-MP4 | CCMT09T304-MP4 | 0.381 | 0.016 | 0.003-0.010 | 0.016-0.118 | | ☺ | ☹ | | | | | | | | | | | | | | |
| | CCMT3(2.5)2-MP4 | CCMT09T308-MP4 | 0.381 | 0.031 | 0.005-0.013 | 0.020-0.118 | | ☺ | ☹ | | | | | | | | | | | | | | |
| | CCMT431-MP4 | CCMT120404-MP4 | 0.508 | 0.016 | 0.005-0.010 | 0.016-0.138 | | ☺ | ☹ | | | | | | | | | | | | | | |
| | CCMT432-MP4 | CCMT120408-MP4 | 0.508 | 0.031 | 0.005-0.013 | 0.020-0.138 | | ☺ | ☹ | | | | | | | | | | | | | | |
|  | CCMT2(1.5)1-RK4 | CCMT060204-RK4 | 0.254 | 0.016 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT2(1.5)2-RK4 | CCMT060208-RK4 | 0.254 | 0.031 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT3(2.5)1-RK4 | CCMT09T304-RK4 | 0.381 | 0.016 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT3(2.5)2-RK4 | CCMT09T308-RK4 | 0.381 | 0.031 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT431-RK4 | CCMT120404-RK4 | 0.508 | 0.016 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT432-RK4 | CCMT120408-RK4 | 0.508 | 0.031 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
| | CCMT433-RK4 | CCMT120412-RK4 | 0.508 | 0.047 | | | | | | | | | | | | | | ☺ | ☹ | | | | |
|  | CCMT2(1.5)1-RM4 | CCMT060204-RM4 | 0.254 | 0.016 | 0.005-0.010 | 0.016-0.098 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT2(1.5)2-RM4 | CCMT060208-RM4 | 0.254 | 0.031 | 0.006-0.012 | 0.024-0.098 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT3(2.5)1-RM4 | CCMT09T304-RM4 | 0.381 | 0.016 | 0.005-0.010 | 0.016-0.118 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT3(2.5)2-RM4 | CCMT09T308-RM4 | 0.381 | 0.031 | 0.006-0.014 | 0.024-0.157 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT431-RM4 | CCMT120404-RM4 | 0.508 | 0.016 | 0.005-0.012 | 0.016-0.157 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT432-RM4 | CCMT120408-RM4 | 0.508 | 0.031 | 0.006-0.016 | 0.024-0.197 | ☹ | | | | | | ☹ | | ☺ | ☹ | ☹ | | | | ☺ | ☹ | ☹ |
| | CCMT433-RM4 | CCMT120412-RM4 | 0.508 | 0.047 | 0.008-0.020 | 0.031-0.197 | ☹ | | | | | | ☹ | | | ☹ | ☹ | | | | | ☹ | ☹ |

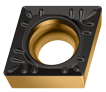
See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK20S: CCGT060204-MK4 WKK20S

HC = Coated carbide

# Positive rhombic 80°
# CCGT / CCMT
# Tiger·tec® Gold



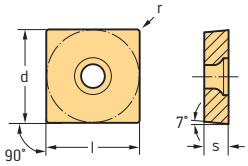

## Indexable inserts

| | ANSI Designation | Designation | l in | r in | f in | $a_p$ in | P HC | | | | | | M HC | | | | | K HC | | S HC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WMP20S | WPP10G | WPP20G | WPP20S | WPP30G | WSM20S | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S |
|  | CCMT2(1.5)1-RP4 | CCMT060204-RP4 | 0.254 | 0.016 | 0.005-0.010 | 0.016-0.098 | | ☺ | 😐 | | ☹ | | | | | | | | | | | | |
| | CCMT2(1.5)2-RP4 | CCMT060208-RP4 | 0.254 | 0.031 | 0.006-0.012 | 0.024-0.098 | | | 😐 | | ☹ | | | | | | | | | | | | |
| | CCMT3(2.5)1-RP4 | CCMT09T304-RP4 | 0.381 | 0.016 | 0.005-0.010 | 0.016-0.118 | | ☺ | 😐 | | ☹ | | | | | | | | | | | | |
| | CCMT3(2.5)2-RP4 | CCMT09T308-RP4 | 0.381 | 0.031 | 0.006-0.014 | 0.024-0.157 | | ☺ | 😐 | | ☹ | | | | | | | | | | | | |
| | CCMT431-RP4 | CCMT120404-RP4 | 0.508 | 0.016 | 0.005-0.012 | 0.016-0.157 | | ☺ | 😐 | | ☹ | | | | | | | | | | | | |
| | CCMT432-RP4 | CCMT120408-RP4 | 0.508 | 0.031 | 0.006-0.016 | 0.024-0.197 | | ☺ | 😐 | | ☹ | | | | | | | | | | | | |
| | CCMT433-RP4 | CCMT120412-RP4 | 0.508 | 0.047 | 0.008-0.020 | 0.031-0.197 | | ☺ | 😐 | | ☹ | | | | | | | | | | | | |

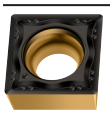
See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK20S: CCGT060204-MK4 WKK20S

HC = Coated carbide

# Positive square
# SCGT / SCMT
# Tiger·tec® Gold




## Indexable inserts

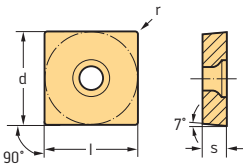
| | ANSI Designation | Designation | l in | r in | f in | $a_p$ in | P HC | | | | | | M HC | | | | | K HC | | S HC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | WMP20S | WPP10G | WPP20G | WPP20S | WPP30G | WSM20S | WMP20S | WSM01 | WSM10S | WSM20S | WSM30S | WKK10S | WKK20S | WSM01 | WSM10S | WSM20S | WSM30S |
|  | SCGT09T308-MK4 | SCGT09T308-MK4 | 0.375 | 0.031 | 0.005-0.013 | 0.020-0.118 | | | | | | | | | | | | | 😐 | | | | |
| | SCGT432-MK4 | SCGT120408-MK4 | 0.500 | 0.031 | 0.005-0.013 | 0.020-0.138 | | | | | | | | | | | | | 😐 | | | | |
|  | SCGT3(2.5)1-MM4 | SCGT09T304-MM4 | 0.375 | 0.016 | 0.003-0.010 | 0.016-0.118 | | | | | | | | ☺ | | 😐 | | | | ☺ | | 😐 | |
| | SCGT3(2.5)2-MM4 | SCGT09T308-MM4 | 0.375 | 0.031 | 0.005-0.013 | 0.020-0.118 | | | | | | | | ☺ | | 😐 | | | | ☺ | | 😐 | |
| | SCGT432-MM4 | SCGT120408-MM4 | 0.500 | 0.031 | 0.005-0.013 | 0.020-0.138 | | | | | | | | | | 😐 | | | | | | 😐 | |
|  | SCGT3(2.5)1-MP4 | SCGT09T304-MP4 | 0.375 | 0.016 | 0.003-0.010 | 0.016-0.118 | | | 😐 | | | | | | | | | | | | | | |
| | SCGT3(2.5)2-MP4 | SCGT09T308-MP4 | 0.375 | 0.031 | 0.005-0.013 | 0.020-0.118 | | | 😐 | | | | | | | | | | | | | | |
| | SCGT432-MP4 | SCGT120408-MP4 | 0.500 | 0.031 | 0.005-0.013 | 0.020-0.138 | | | 😐 | | | | | | | | | | | | | | |
|  | SCMT2(1.5)1-E47 | SCMT060204-E47 | 0.250 | 0.016 | | | | | | ☹ | | ☹ | | | ☺ | 😐 | ☹ | | | | ☺ | 😐 | ☹ |
| | SCMT3(2.5)1-E47 | SCMT09T304-E47 | 0.375 | 0.016 | | | | | | ☹ | | ☹ | | | ☺ | 😐 | | | | | ☺ | 😐 | |
| | SCMT3(2.5)2-E47 | SCMT09T308-E47 | 0.375 | 0.031 | | | | | | ☹ | | ☹ | | | ☺ | 😐 | ☹ | | | | ☺ | 😐 | ☹ |
| | SCMT432-E47 | SCMT120408-E47 | 0.500 | 0.031 | | | | | | ☹ | | ☹ | | | | 😐 | ☹ | | | | | 😐 | ☹ |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK20S: SCGT09T308-MK4 WKK20S

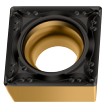
HC = Coated carbide

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Positive square
# SCGT / SCMT
# Tiger·tec® Gold




## Indexable inserts

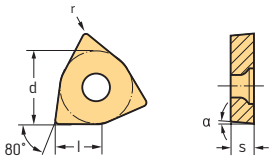
| | ANSI Designation | Designation | l in | r in | f in | $a_p$ in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WPP20S | P HC WPP30G | P HC WSM20S | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM30S | K HC WKK10S | K HC WKK20S | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | SCMT3(2.5)1-MK4 | SCMT09T304-MK4 | 0.375 | 0.016 | 0.003-0.010 | 0.016-0.118 | | | | | | | | | | | | ● | ● | | | | |
| | SCMT3(2.5)2-MK4 | SCMT09T308-MK4 | 0.375 | 0.031 | 0.005-0.013 | 0.020-0.118 | | | | | | | | | | | | ● | ● | | | | |
| | SCMT432-MK4 | SCMT120408-MK4 | 0.500 | 0.031 | 0.005-0.013 | 0.020-0.138 | | | | | | | | | | | | ● | ● | | | | |
|  | SCMT3(2.5)1-MM4 | SCMT09T304-MM4 | 0.375 | 0.016 | 0.003-0.010 | 0.016-0.118 | ● | | | | | | ● | | ● | ● | | | | | ● | ● | |
| | SCMT3(2.5)2-MM4 | SCMT09T308-MM4 | 0.375 | 0.031 | 0.005-0.013 | 0.020-0.118 | ● | | | | | | ● | | ● | ● | ● | | | | ● | ● | ● |
| | SCMT432-MM4 | SCMT120408-MM4 | 0.500 | 0.031 | 0.005-0.013 | 0.020-0.138 | ● | | | | | | ● | | | ● | | | | | | ● | |
|  | SCMT3(2.5)1-MP4 | SCMT09T304-MP4 | 0.375 | 0.016 | 0.003-0.010 | 0.016-0.118 | | | ● | | | | | | | | | | | | | | |
| | SCMT3(2.5)2-MP4 | SCMT09T308-MP4 | 0.375 | 0.031 | 0.005-0.013 | 0.020-0.118 | | ● | ● | | | | | | | | | | | | | | |
| | SCMT432-MP4 | SCMT120408-MP4 | 0.500 | 0.031 | 0.005-0.013 | 0.020-0.138 | | ● | ● | | | | | | | | | | | | | | |
|  | SCMT3(2.5)1-RK4 | SCMT09T304-RK4 | 0.375 | 0.031 | 0.005-0.010 | 0.016-0.118 | | | | | | | | | | | | ● | ● | | | | |
| | SCMT3(2.5)2-RK4 | SCMT09T308-RK4 | 0.375 | 0.047 | 0.006-0.014 | 0.024-0.157 | | | | | | | | | | | | ● | ● | | | | |
| | SCMT431-RK4 | SCMT120404-RK4 | 0.500 | 0.016 | 0.005-0.010 | 0.016-0.118 | | | | | | | | | | | | ● | ● | | | | |
| | SCMT432-RK4 | SCMT120408-RK4 | 0.500 | 0.031 | 0.006-0.016 | 0.024-0.197 | | | | | | | | | | | | ● | ● | | | | |
| | SCMT433-RK4 | SCMT120412-RK4 | 0.500 | 0.047 | 0.008-0.020 | 0.031-0.197 | | | | | | | | | | | | ● | ● | | | | |
|  | SCMT3(2.5)1-RM4 | SCMT09T304-RM4 | 0.375 | 0.031 | 0.005-0.010 | 0.016-0.118 | | | | | | | | | | ● | ● | | | | | ● | ● |
| | SCMT3(2.5)2-RM4 | SCMT09T308-RM4 | 0.375 | 0.047 | 0.006-0.014 | 0.024-0.157 | ● | | | | | | ● | | ● | ● | ● | | | | ● | ● | ● |
| | SCMT431-RM4 | SCMT120404-RM4 | 0.500 | 0.016 | 0.005-0.010 | 0.016-0.118 | | | | | | | | | | ● | ● | | | | | ● | ● |
| | SCMT432-RM4 | SCMT120408-RM4 | 0.500 | 0.031 | 0.006-0.016 | 0.024-0.197 | ● | | | | | | ● | | ● | ● | ● | | | | ● | ● | ● |
| | SCMT433-RM4 | SCMT120412-RM4 | 0.500 | 0.047 | 0.008-0.020 | 0.031-0.197 | ● | | | | | | ● | | | ● | ● | | | | | ● | ● |
|  | SCMT3(2.5)1-RP4 | SCMT09T304-RP4 | 0.375 | 0.016 | 0.005-0.010 | 0.016-0.118 | | ● | ● | | ● | | | | | | | | | | | | |
| | SCMT3(2.5)2-RP4 | SCMT09T308-RP4 | 0.375 | 0.031 | 0.006-0.014 | 0.024-0.157 | | ● | ● | | ● | | | | | | | | | | | | |
| | SCMT3(2.5)3-RP4 | SCMT09T312-RP4 | 0.375 | 0.047 | 0.008-0.018 | 0.031-0.197 | | ● | | | | | | | | | | | | | | | |
| | SCMT431-RP4 | SCMT120404-RP4 | 0.500 | 0.016 | 0.005-0.010 | 0.016-0.118 | | ● | ● | | ● | | | | | | | | | | | | |
| | SCMT432-RP4 | SCMT120408-RP4 | 0.500 | 0.031 | 0.006-0.016 | 0.024-0.197 | | ● | ● | | ● | | | | | | | | | | | | |
| | SCMT433-RP4 | SCMT120412-RP4 | 0.500 | 0.047 | 0.008-0.020 | 0.031-0.197 | | ● | ● | | ● | | | | | | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WKK20S: SCGT09T308-MK4 WKK20S

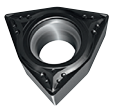
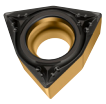
HC = Coated carbide

B 2

# Positive Trigon 80°
# WCMT
# Tiger·tec® Gold




## Indexable inserts

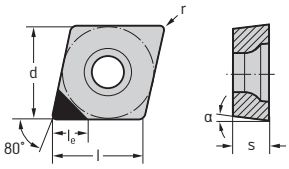
| | ANSI Designation | Designation | l in | r in | f in | $a_p$ in | P HC WPP20G | P HC WPP20S | P HC WPP30G | P HC WSM20S | M HC WSM20S | M HC WSM30S | K HC WKK20S | S HC WSM20S | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | WCMT1.8(1.5)1-E47 | WCMT030204-E47 | 0.138 | 0.016 | | | | 😐 | | 😐 | 😐 | | | 😐 | |
| | WCMT2(1.5)1-E47 | WCMT040204-E47 | 0.169 | 0.016 | | | | 😐 | | 😐 | 😐 | | | 😐 | |
| | WCMT2(2.5)1-E47 | WCMT06T304-E47 | 0.256 | 0.016 | | | | 😐 | | | | | | | |
| | WCMT2(2.5)2-E47 | WCMT06T308-E47 | 0.256 | 0.031 | | | | | | 😐 | 😐 | | | 😐 | |
|  | WCMT2(2.5)1-MM4 | WCMT06T304-MM4 | 0.257 | 0.016 | | | | | | | 😐 | | | 😐 | |
| | WCMT2(2.5)2-MM4 | WCMT06T308-MM4 | 0.257 | 0.031 | | | | | | | 😐 | | | 😐 | |
|  | WCMT2(2.5)1-MP4 | WCMT06T304-MP4 | 0.257 | 0.016 | 0.003-0.010 | 0.016-0.098 | 😐 | | | | | | | | |
| | WCMT2(2.5)2-MP4 | WCMT06T308-MP4 | 0.257 | 0.031 | 0.005-0.013 | 0.020-0.098 | 😐 | | | | | | | | |
|  | WCMT2(1.5)1-RK4 | WCMT040204-RK4 | 0.171 | 0.016 | 0.005-0.010 | 0.016-0.098 | | | | | | | 😐 | | |
| | WCMT2(2.5)1-RK4 | WCMT06T304-RK4 | 0.257 | 0.016 | 0.005-0.010 | 0.016-0.118 | | | | | | | 😐 | | |
| | WCMT2(2.5)2-RK4 | WCMT06T308-RK4 | 0.257 | 0.031 | 0.006-0.014 | 0.024-0.118 | | | | | | | 😐 | | |
| | WCMT331-RK4 | WCMT080404-RK4 | 0.342 | 0.016 | 0.005-0.010 | 0.016-0.118 | | | | | | | 😐 | | |
| | WCMT332-RK4 | WCMT080408-RK4 | 0.342 | 0.031 | 0.006-0.016 | 0.024-0.157 | | | | | | | 😐 | | |
| | WCMT333-RK4 | WCMT080412-RK4 | 0.342 | 0.047 | 0.008-0.018 | 0.031-0.157 | | | | | | | 😐 | | |
|  | WCMT1.8(1.5)0.5-RM4 | WCMT030202-RM4 | 0.154 | 0.008 | | | | | | | 😐 | | | 😐 | |
| | WCMT2(1.5)0.5-RM4 | WCMT040202-RM4 | 0.171 | 0.016 | | | | | | | 😐 | 😞 | | 😐 | 😞 |
| | WCMT2(1.5)1-RM4 | WCMT040204-RM4 | 0.171 | 0.016 | | | | | | | 😐 | 😞 | | 😐 | 😞 |
| | WCMT2(2.5)1-RM4 | WCMT06T304-RM4 | 0.257 | 0.016 | | | | | | | 😐 | 😞 | | 😐 | 😞 |
| | WCMT2(2.5)2-RM4 | WCMT06T308-RM4 | 0.257 | 0.031 | | | | | | | 😐 | 😞 | | 😐 | 😞 |
| | WCMT332-RM4 | WCMT080408-RM4 | 0.342 | 0.031 | | | | | | | 😐 | 😞 | | 😐 | 😞 |
| | WCMT333-RM4 | WCMT080412-RM4 | 0.342 | 0.047 | | | | | | | 😐 | | | 😐 | |
|  | WCMT1.8(1.5)0.5-RP4 | WCMT030202-RP4 | 0.154 | 0.008 | 0.003-0.005 | 0.008-0.059 | 😐 | | | | | | | | |
| | WCMT2(1.5)1-RP4 | WCMT040204-RP4 | 0.171 | 0.016 | 0.005-0.010 | 0.016-0.098 | 😐 | | | | | | | | |
| | WCMT2(2.5)1-RP4 | WCMT06T304-RP4 | 0.257 | 0.016 | 0.005-0.010 | 0.016-0.118 | 😐 | | | | | | | | |
| | WCMT2(2.5)2-RP4 | WCMT06T308-RP4 | 0.257 | 0.031 | 0.006-0.014 | 0.024-0.118 | 😐 | | 😞 | | | | | | |
| | WCMT331-RP4 | WCMT080404-RP4 | 0.342 | 0.016 | 0.005-0.010 | 0.016-0.118 | 😐 | | | | | | | | |
| | WCMT332-RP4 | WCMT080408-RP4 | 0.342 | 0.031 | 0.006-0.016 | 0.024-0.157 | 😐 | | 😞 | | | | | | |
| | WCMT333-RP4 | WCMT080412-RP4 | 0.342 | 0.047 | 0.008-0.018 | 0.031-0.157 | 😐 | | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WPP20S: WCMT030204-E47 WPP20S

HC = Coated carbide

**WALTER SELECT** Optimum indexable insert for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

# CBN – Positive rhombic 80°
# CPGW




## Indexable inserts

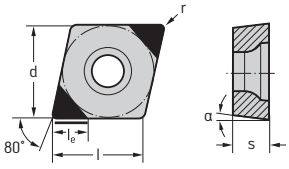
| | ANSI Designation | Designation | Number of cutting edges | l in | r in | H BH WCB50 |
|---|---|---|---|---|---|---|
|  | CPGW1.8(1.5)0.5 | CPGW050202 | 1 | 0.222 | 0.008 | ☺ |
| | CPGW1.8(1.5)1 | CPGW050204 | 1 | 0.222 | 0.016 | ☺ |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WCB50: CPGW050202 WCB50

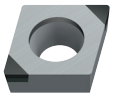
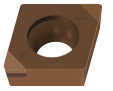
BH = CBN with high CBN content

B 2

# CBN – Positive rhombic 80°
# CCGW




## Indexable inserts

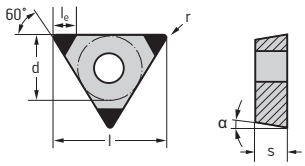
| | ANSI Designation | Designation | Number of cutting edges | $l_e$ in | l in | r in | α | K BH WBK20 | S BH WBS10 | H BC WBH10C | H BC WBH20C | H BH WBH30 | H BL WBH10 | H BL WBH20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | CCGW2(1.5)0.5EM-2 | CCGW060202EM-2 | 2 | 0.110 | 0.254 | 0.008 | 7° | | ☺ | | | | | |
| | CCGW2(1.5)1EM-2 | CCGW060204EM-2 | 2 | 0.110 | 0.254 | 0.016 | 7° | | ☺ | | | | | |
| | CCGW3(2.5)1EM-2 | CCGW09T304EM-2 | 2 | 0.110 | 0.381 | 0.016 | 7° | | ☺ | | | | | |
| | CCGW3(2.5)2EM-2 | CCGW09T308EM-2 | 2 | 0.106 | 0.381 | 0.031 | 7° | | ☺ | | | | | |
|  | CCGW2(1.5)0.5TM-2 | CCGW060202TM-2 | 2 | 0.110 | 0.254 | 0.008 | 7° | | | | 😐 | | | |
| | CCGW2(1.5)1TM-2 | CCGW060204TM-2 | 2 | 0.110 | 0.254 | 0.016 | 7° | | | ☺ | 😐 | 😣 | ☺ | 😐 |
| | CCGW2(1.5)2TM-2 | CCGW060208TM-2 | 2 | 0.106 | 0.254 | 0.031 | 7° | | | ☺ | 😐 | 😣 | | 😐 |
| | CCGW3(2.5)1TM-2 | CCGW09T304TM-2 | 2 | 0.110 | 0.381 | 0.016 | 7° | | | ☺ | 😐 | 😣 | ☺ | 😐 |
| | CCGW3(2.5)2TM-2 | CCGW09T308TM-2 | 2 | 0.106 | 0.381 | 0.031 | 7° | | | ☺ | 😐 | 😣 | ☺ | 😐 |
|  Wiper | CCGW3(2.5)1TS-MW2 | CCGW09T304TS-MW2 | 2 | 0.110 | 0.381 | 0.016 | 7° | | | | | | | |
| | CCGW3(2.5)2TM-MW2 | CCGW09T308TM-MW2 | 2 | 0.106 | 0.381 | 0.031 | 7° | | | ☺ | | | | |
|  | CCGW2(1.5)0.5TS-2 | CCGW060202TS-2 | 2 | 0.110 | 0.254 | 0.008 | 7° | 😐 | | ☺ | | | ☺ | |
| | CCGW2(1.5)1TS-2 | CCGW060204TS-2 | 2 | 0.110 | 0.254 | 0.016 | 7° | 😐 | | | | | | |
| | CCGW2(1.5)2TS-2 | CCGW060208TS-2 | 2 | 0.106 | 0.254 | 0.031 | 7° | 😐 | | | | | | |
| | CCGW3(2.5)1TS-2 | CCGW09T304TS-2 | 2 | 0.110 | 0.381 | 0.016 | 7° | 😐 | | | | | | |
| | CCGW3(2.5)2TS-2 | CCGW09T308TS-2 | 2 | 0.106 | 0.381 | 0.031 | 7° | 😐 | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WBS10: CCGW060202EM-2 WBS10

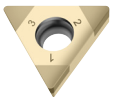
BH = CBN with high CBN content
BC = CBN Coated
BL = CBN with low CBN content

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = 😣 machining conditions

# CBN – Positive triangular 60°
# TCGW



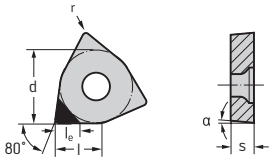

## Indexable inserts

| | ANSI Designation | Designation | Number of cutting edges | $l_e$ in | l in | r in | α | K BH WBK20 | H BC WBH10C | H BC WBH20C | H BH WBH30 | H BL WBH10 | H BL WBH20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | TCGW2(1.5)1TM-3 | TCGW110204TM-3 | 3 | 0.122 | 0.433 | 0.016 | 7° | | ☺ | 😐 | ☹ | ☺ | 😐 |
| | TCGW2(1.5)2TM-3 | TCGW110208TM-3 | 3 | 0.110 | 0.433 | 0.031 | 7° | | ☺ | 😐 | ☹ | ☺ | 😐 |
|  | TCGW2(1.5)0.5TS-3 | TCGW110202TS-3 | 3 | 0.110 | 0.433 | 0.008 | 7° | 😐 | | | | | |
| | TCGW2(1.5)1TS-3 | TCGW110204TS-3 | 3 | 0.122 | 0.433 | 0.016 | 7° | 😐 | | | | | |

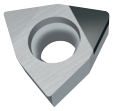
See the ISO 1832 designation key for dimensions
Ordering example for the grade WBH10: TCGW110204TM-3 WBH10

BH = CBN with high CBN content
BC = CBN Coated
BL = CBN with low CBN content

# CBN – Positive trigon 80°
# WCMW




## Indexable inserts

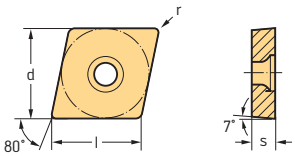
| | ANSI Designation | Designation | Number of cutting edges | l in | r in | K BH WCB80 | N DP WCD10 | H BH WCB50 | H BH WCB80 |
|---|---|---|---|---|---|---|---|---|---|
|  | WCMW1.2(1)0.5 | WCMW020102 | 1 | 0.106 | 0.008 | ☺ | | 😐 | ☹ |
| | WCMW1.2(1)1 | WCMW020104 | 1 | 0.106 | 0.016 | | | 😐 | |
| | MCMW1.8(1.5)1 | WCMW030202 | 1 | 0.138 | 0.008 | ☺ | | 😐 | ☹ |
| | WCMW1.8(1.5)1 | WCMW030204 | 1 | 0.138 | 0.016 | ☺ | | 😐 | ☹ |
| | WCMW2(1.5)0.5 | WCMW040202 | 1 | 0.169 | 0.008 | | | 😐 | |
| | MCMW2(1.5)1 | WCMW040204 | 1 | 0.169 | 0.016 | ☺ | | 😐 | ☹ |
| | MCMW2.5(2)1 | WCMW050304 | 1 | 0.214 | 0.016 | ☺ | | 😐 | ☹ |
|  | WCMW1.2(1)1 | WCMW020104 | 1 | 0.106 | 0.016 | | 😐 | | |
| | MCMW1.8(1.5)1 | WCMW030202 | 1 | 0.138 | 0.008 | | 😐 | | |
| | WCMW1.8(1.5)1 | WCMW030204 | 1 | 0.138 | 0.016 | | 😐 | | |
| | WCMW2(1.5)0.5 | WCMW040202 | 1 | 0.169 | 0.008 | | 😐 | | |
| | MCMW2(1.5)1 | WCMW040204 | 1 | 0.169 | 0.016 | | 😐 | | |
| | MCMW2.5(2)1 | WCMW050304 | 1 | 0.214 | 0.016 | | 😐 | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WCB50: WCMW020102 WCB50

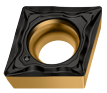
BH = CBN with high CBN content
DP = Polycrystalline diamond

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Positive rhombic 80°
# CCMT / CPGT / CPMT
# Tiger·tec® Gold




## Indexable inserts

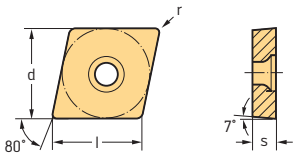
| | ANSI Designation | Designation | l in | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WTP35 | P HC WXM15 | P HE WEP10C | M HC WMP20S | M HC WSM01 | M HC WSM20S | M HC WXM15 | K HC WAK15 | K HC WXM15 | N HW WK1 | S HC WSM01 | S HC WSM20S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | CCMT2(1.5)1-FP6 | CCMT060204-FP6 | 0.254 | 0.016 | | ☺ | 😐 | | | | | | | | | | | | |
| | CCMT2(1.5)2-FP6 | CCMT060208-FP6 | 0.254 | 0.031 | | | 😐 | | | | | | | | | | | | |
| | CCMT3(2.5)1-FP6 | CCMT09T304-FP6 | 0.381 | 0.016 | | ☺ | 😐 | | | | | | | | | | | | |
| | CCMT3(2.5)2-FP6 | CCMT09T308-FP6 | 0.381 | 0.031 | | ☺ | 😐 | | | | | | | | | | | | |
| | CCMT431-FP6 | CCMT120404-FP6 | 0.508 | 0.016 | | | 😐 | | | | | | | | | | | | |
| | CCMT432-FP6 | CCMT120408-FP6 | 0.508 | 0.031 | | | 😐 | | | | | | | | | | | | |
|  | CPGT1.8(1.5)0.5M-FP2 | CPGT050202M-FP2 | 0.222 | 0.007 | | | | | | ☺ | | | | | | | | | |
| | CPGT1.8(1.5)1M-FP2 | CPGT050204M-FP2 | 0.222 | 0.015 | | | | | | ☺ | | | | | | | | | |
|  | CPGT1.8(1.5)1-MM4 | CPGT050204-MM4 | 0.222 | 0.016 | | | | | | | | | 😐 | | | | | | 😐 |
| | CPGT2(1.5)0.2-MM4 | CPGT060201-MM4 | 0.254 | 0.004 | | | | | | | | ☺ | | | | | | ☺ | |
| | CPGT2(1.5)0.5-MM4 | CPGT060202-MM4 | 0.254 | 0.008 | | | | | | | | ☺ | | | | | | ☺ | |
| | CPGT2(1.5)1-MM4 | CPGT060204-MM4 | 0.254 | 0.016 | | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 |
| | CPGT2(1.5)2-MM4 | CPGT060208-MM4 | 0.254 | 0.031 | | | | | | | | ☺ | | | | | | ☺ | |
| | CPGT3(2.5)0.2-MM4 | CPGT09T301-MM4 | 0.381 | 0.004 | | | | | | | | ☺ | | | | | | ☺ | |
| | CPGT3(2.5)1-MM4 | CPGT09T304-MM4 | 0.381 | 0.016 | | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 |
| | CPGT3(2.5)2-MM4 | CPGT09T308-MM4 | 0.381 | 0.031 | | | | | | | | ☺ | 😐 | | | | | ☺ | 😐 |
|  | CPGT1.8(1.5)0.5-X15 | CPGT050202-X15 | 0.222 | 0.008 | | | | 😐 | ☺ | | | | | ☺ | ☺ | ☺ | | | |
| | CPGT1.8(1.5)1-X15 | CPGT050204-X15 | 0.222 | 0.016 | | | | 😐 | ☺ | | | | | ☺ | ☺ | ☺ | 😐 | | |
|  | CPGT1.8(1.5)1-X25 | CPGT050204-X25 | 0.222 | 0.016 | | | | | | | | | | | | | 😐 | | |
|  | CPGT1.8(1.5)0.5-X5 | CPGT050202-X5 | 0.222 | 0.008 | | | | 😐 | ☺ | | | | | ☺ | ☺ | ☺ | | | |
| | CPGT1.8(1.5)1-X5 | CPGT050204-X5 | 0.222 | 0.016 | | | | 😐 | ☺ | | | | | ☺ | ☺ | ☺ | | | |
|  | CPMT1.8(1.5)1-FM4 | CPMT050204-FM4 | 0.222 | 0.016 | 😐 | | | | | | 😐 | | 😐 | | | | | | 😐 |
| | CPMT2(1.5)1-FM4 | CPMT060204-FM4 | 0.254 | 0.016 | 😐 | | | | | | 😐 | | 😐 | | | | | | 😐 |
| | CPMT3(2.5)1-FM4 | CPMT09T304-FM4 | 0.381 | 0.016 | 😐 | | | | | | 😐 | | 😐 | | | | | | 😐 |
| | CPMT3(2.5)2-FM4 | CPMT09T308-FM4 | 0.381 | 0.031 | 😐 | | | | | | 😐 | | 😐 | | | | | | 😐 |
|  | CPMT1.8(1.5)1-FP4 | CPMT050204-FP4 | 0.222 | 0.016 | | ☺ | | | | | | | | | | | | | |
| | CPMT2(1.5)1-FP4 | CPMT060204-FP4 | 0.254 | 0.016 | | ☺ | | | | | | | | | | | | | |
| | CPMT3(2.5)1-FP4 | CPMT09T304-FP4 | 0.381 | 0.016 | | ☺ | | | | | | | | | | | | | |
| | CPMT3(2.5)2-FP4 | CPMT09T308-FP4 | 0.381 | 0.031 | | ☺ | | | | | | | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WPP10G: CCMT060204-FP6 WPP10G

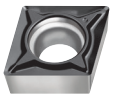
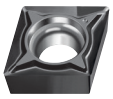
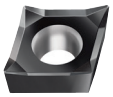
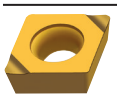
HC = Coated carbide
HE = Coated cermet
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Positive rhombic 80°
# CCGT / CCMT
# Tiger·tec® Gold




## Indexable inserts

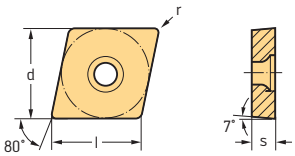
| | ANSI Designation | Designation | l in | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WTP35 | P HC WXM15 | P HE WEP10C | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM30S | M HC WXM15 | K HC WAK15 | K HC WKK10S | K HC WKK20S | K HC WXM15 | N HC WNN10 | N HW WN10 | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | CCGT2(1.5)0.2-FM2 | CCGT060201-FM2 | 0.254 | 0.004 | | | | | | | | | | 😐 | | | | | | | | | | | 😐 | |
| | CCGT2(1.5)0.5-FM2 | CCGT060202-FM2 | 0.254 | 0.008 | | | | | | | | 😊 | | 😐 | | | | | | | | | 😊 | | 😐 | |
| | CCGT2(1.5)1-FM2 | CCGT060204-FM2 | 0.254 | 0.016 | | | | | | | | 😊 | | 😐 | | | | | | | | | 😊 | | 😐 | |
| | CCGT3(2.5)0.2-FM2 | CCGT09T301-FM2 | 0.381 | 0.004 | | | | | | | | | | 😐 | | | | | | | | | | | 😐 | |
| | CCGT3(2.5)0.5-FM2 | CCGT09T302-FM2 | 0.381 | 0.008 | | | | | | | | 😊 | | 😐 | | | | | | | | | 😊 | | 😐 | |
| | CCGT3(2.5)1-FM2 | CCGT09T304-FM2 | 0.381 | 0.016 | | | | | | | | 😊 | 😊 | 😐 | | | | | | | | | 😊 | 😊 | 😐 | |
| | CCGT3(2.5)2-FM2 | CCGT09T308-FM2 | 0.381 | 0.031 | | | | | | | | 😊 | 😊 | 😐 | | | | | | | | | 😊 | 😊 | 😐 | |
| | CCGT431-FM2 | CCGT120404-FM2 | 0.508 | 0.016 | | | | | | | | | | 😐 | | | | | | | | | | | 😐 | |
| | CCGT432-FM2 | CCGT120408-FM2 | 0.508 | 0.031 | | | | | | | | | | 😐 | | | | | | | | | | | 😐 | |
|  | CCGT2(1.5)0.2-FN2 | CCGT060201-FN2 | 0.254 | 0.004 | | | | | | | | | | | | | | | | 😐 | | | | | | |
| | CCGT2(1.5)0.5-FN2 | CCGT060202-FN2 | 0.254 | 0.008 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT2(1.5)1-FN2 | CCGT060204-FN2 | 0.254 | 0.016 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT3(2.5)0.2-FN2 | CCGT09T301-FN2 | 0.381 | 0.004 | | | | | | | | | | | | | | | | 😐 | | | | | | |
| | CCGT3(2.5)0.5-FN2 | CCGT09T302-FN2 | 0.381 | 0.008 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT3(2.5)1-FN2 | CCGT09T304-FN2 | 0.381 | 0.016 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT3(2.5)2-FN2 | CCGT09T308-FN2 | 0.381 | 0.031 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT431-FN2 | CCGT120404-FN2 | 0.508 | 0.016 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT432-FN2 | CCGT120408-FN2 | 0.508 | 0.031 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
|  | CCGT2(1.5)0.2M-FP2 | CCGT060201M-FP2 | 0.254 | 0.003 | | | | | | 😊 | | | | | | | | | | | | | | | | |
| | CCGT2(1.5)0.5M-FP2 | CCGT060202M-FP2 | 0.254 | 0.007 | | | | | | 😊 | | | | | | | | | | | | | | | | |
| | CCGT2(1.5)1M-FP2 | CCGT060204M-FP2 | 0.254 | 0.015 | | | | | | 😊 | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)0.2M-FP2 | CCGT09T301M-FP2 | 0.381 | 0.003 | | | | | | 😊 | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)0.5M-FP2 | CCGT09T302M-FP2 | 0.381 | 0.007 | | | | | | 😊 | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)1M-FP2 | CCGT09T304M-FP2 | 0.381 | 0.015 | | | | | | 😊 | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)2M-FP2 | CCGT09T308M-FP2 | 0.381 | 0.030 | | | | | | 😊 | | | | | | | | | | | | | | | | |
|  | CCGT2(1.5)0.2-MN2 | CCGT060201-MN2 | 0.254 | 0.004 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT2(1.5)0.5-MN2 | CCGT060202-MN2 | 0.254 | 0.008 | | | | | | | | 😊 | | | | | | | | 😐 | 😊 | 😐 | | | | |
| | CCGT2(1.5)1-MN2 | CCGT060204-MN2 | 0.254 | 0.016 | | | | | | | | 😊 | | | | | | | | 😐 | 😊 | 😐 | | | | |
| | CCGT3(2.5)0.2-MN2 | CCGT09T301-MN2 | 0.381 | 0.004 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT3(2.5)0.5-MN2 | CCGT09T302-MN2 | 0.381 | 0.008 | | | | | | | | 😊 | | | | | | | | 😐 | 😊 | 😐 | | | | |
| | CCGT3(2.5)1-MN2 | CCGT09T304-MN2 | 0.381 | 0.016 | | | | | | | | 😊 | | | | | | | | 😐 | 😊 | 😐 | | | | |
| | CCGT3(2.5)2-MN2 | CCGT09T308-MN2 | 0.381 | 0.031 | | | | | | | | 😊 | | | | | | | | 😐 | 😊 | 😐 | | | | |
| | CCGT4(3)0.5-MN2 | CCGT120402-MN2 | 0.508 | 0.008 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT431-MN2 | CCGT120404-MN2 | 0.508 | 0.016 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
| | CCGT432-MN2 | CCGT120408-MN2 | 0.508 | 0.031 | | | | | | | | | | | | | | | | 😐 | 😊 | | | | | |
|  | CCGT2(1.5)0.5-X15 | CCGT060202-X15 | 0.254 | 0.008 | | | | 😐 | 😊 | | | | | | | 😊 | 😊 | | | 😊 | | | | | | |
| | CCGT2(1.5)1-X15 | CCGT060204-X15 | 0.254 | 0.016 | | | | 😐 | 😊 | | | | | | | 😊 | 😊 | | | 😊 | | | | | | |
|  | CCGT2(1.5)0.5-X5 | CCGT060202-X5 | 0.254 | 0.008 | | | | 😐 | 😊 | | | | | | | 😊 | 😊 | | | 😊 | | | | | | |
| | CCGT2(1.5)1-X5 | CCGT060204-X5 | 0.254 | 0.016 | | | | 😐 | 😊 | | | | | | | 😊 | 😊 | | | 😊 | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WSM20S: CCGT060201-FM2 WSM20S

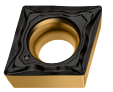
HC = Coated carbide
HE = Coated cermet
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# Positive rhombic 80°
# CCGT / CCMT
# Tiger·tec® Gold




## Indexable inserts

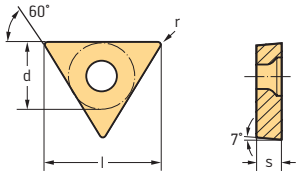
| | ANSI Designation | Designation | l in | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HC WTP35 | P HC WXM15 | P HE WEP10C | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM30S | M HC WXM15 | K HC WAK15 | K HC WKK10S | K HC WKK20S | K HC WXM15 | N HC WNN10 | N HW WN10 | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | CCMT2(1.5)1-FK6 | CCMT060204-FK6 | 0.254 | 0.016 | | | | | | | | | | | | | | ● | ● | | | | | | | |
| | CCMT2(1.5)2-FK6 | CCMT060208-FK6 | 0.254 | 0.031 | | | | | | | | | | | | | | ● | ● | | | | | | | |
| | CCGT3(2.5)1-FK6 | CCMT09T304-FK6 | 0.381 | 0.016 | | | | | | | | | | | | | | ● | ● | | | | | | | |
| | CCGT3(2.5)2-FK6 | CCMT09T308-FK6 | 0.381 | 0.031 | | | | | | | | | | | | | | ● | ● | | | | | | | |
| | CCGT431-FK6 | CCMT120404-FK6 | 0.508 | 0.016 | | | | | | | | | | | | | | | ● | | | | | | | |
| | CCGT432-FK6 | CCMT120408-FK6 | 0.508 | 0.031 | | | | | | | | | | | | | | ● | ● | | | | | | | |
|  | CCMT2(1.5)0.5-FM4 | CCMT060202-FM4 | 0.254 | 0.008 | ● | | | | | | ● | | ● | ● | ● | | | | | | | | | ● | ● | ● |
| | CCMT2(1.5)1-FM4 | CCMT060204-FM4 | 0.254 | 0.016 | ● | | | | | | ● | ● | ● | ● | ● | | | | | | | | ● | ● | ● | ● |
| | CCMT2(1.5)2-FM4 | CCMT060208-FM4 | 0.254 | 0.031 | ● | | | | | | ● | | | ● | ● | | | | | | | | | | ● | ● |
| | CCGT3(2.5)0.5-FM4 | CCMT09T302-FM4 | 0.381 | 0.008 | ● | | | | | | ● | ● | ● | ● | ● | | | | | | | | ● | ● | ● | ● |
| | CCGT3(2.5)1-FM4 | CCMT09T304-FM4 | 0.381 | 0.016 | ● | | | | | | ● | ● | ● | ● | ● | | | | | | | | ● | ● | ● | ● |
| | CCGT3(2.5)2-FM4 | CCMT09T308-FM4 | 0.381 | 0.031 | ● | | | | | | ● | ● | ● | ● | ● | | | | | | | | ● | ● | ● | ● |
| | CCGT431-FM4 | CCMT120404-FM4 | 0.508 | 0.016 | | | | | | | | | ● | ● | ● | | | | | | | | | ● | ● | ● |
| | CCGT432-FM4 | CCMT120408-FM4 | 0.508 | 0.031 | | | | | | | | | ● | ● | ● | | | | | | | | | ● | ● | ● |
|  | CCMT2(1.5)1-FM6 | CCMT060204-FM6 | 0.254 | 0.016 | | | | | | | | | | ● | ● | | | | | | | | | | ● | ● |
| | CCMT2(1.5)2-FM6 | CCMT060208-FM6 | 0.254 | 0.031 | | | | | | | | | | ● | | | | | | | | | | | ● | |
| | CCGT3(2.5)1-FM6 | CCMT09T304-FM6 | 0.381 | 0.016 | | | | | | | | | | ● | ● | | | | | | | | | | ● | ● |
| | CCGT3(2.5)2-FM6 | CCMT09T308-FM6 | 0.381 | 0.031 | | | | | | | | | | ● | ● | | | | | | | | | | ● | ● |
| | CCGT432-FM6 | CCMT120408-FM6 | 0.508 | 0.031 | | | | | | | | | | ● | ● | | | | | | | | | | ● | ● |
|  | CCMT2(1.5)0.5-FP4 | CCMT060202-FP4 | 0.254 | 0.008 | | ● | ● | | | ● | | | | | | | | | | | | | | | | |
| | CCMT2(1.5)1-FP4 | CCMT060204-FP4 | 0.254 | 0.016 | | ● | ● | | | ● | | | | | | | | | | | | | | | | |
| | CCMT2(1.5)2-FP4 | CCMT060208-FP4 | 0.254 | 0.031 | | ● | ● | | | | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)0.5-FP4 | CCMT09T302-FP4 | 0.381 | 0.008 | | ● | ● | | | ● | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)1-FP4 | CCMT09T304-FP4 | 0.381 | 0.016 | | ● | ● | | | ● | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)2-FP4 | CCMT09T308-FP4 | 0.381 | 0.031 | | ● | ● | | | ● | | | | | | | | | | | | | | | | |
| | CCGT431-FP4 | CCMT120404-FP4 | 0.508 | 0.016 | | ● | ● | | | | | | | | | | | | | | | | | | | |
| | CCGT432-FP4 | CCMT120408-FP4 | 0.508 | 0.031 | | ● | ● | | | | | | | | | | | | | | | | | | | |
|  | CCMT2(1.5)1-FP6 | CCMT060204-FP6 | 0.254 | 0.016 | | ● | ● | | | | | | | | | | | | | | | | | | | |
| | CCMT2(1.5)2-FP6 | CCMT060208-FP6 | 0.254 | 0.031 | | | ● | | | | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)1-FP6 | CCMT09T304-FP6 | 0.381 | 0.016 | | ● | ● | | | | | | | | | | | | | | | | | | | |
| | CCGT3(2.5)2-FP6 | CCMT09T308-FP6 | 0.381 | 0.031 | | ● | ● | | | | | | | | | | | | | | | | | | | |
| | CCGT431-FP6 | CCMT120404-FP6 | 0.508 | 0.016 | | | ● | | | | | | | | | | | | | | | | | | | |
| | CCGT432-FP6 | CCMT120408-FP6 | 0.508 | 0.031 | | | ● | | | | | | | | | | | | | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WSM20S: CCGT060201-FM2 WSM20S

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

B 2

# Positive triangular 60°
# TCGT / TCMT
# Tiger·tec® Gold




## Indexable inserts

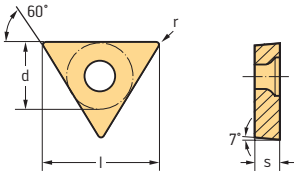
| | ANSI Designation | Designation | l in | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HE WEP10C | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM21 | M HC WSM30S | N HC WNN10 | N HW WN10 | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM21 | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | TCGT1.2(1.2)0.2-FM2 | TCGT06T101-FM2 | 0.270 | 0.004 | | | | | | | | | 😐 | | | | | | 😐 | |
| | TCGT1.2(1.2)0.5-FM2 | TCGT06T102-FM2 | 0.270 | 0.008 | | | | | | | | | 😐 | | | | | | 😐 | |
| | TCGT1.2(1.2)1-FM2 | TCGT06T104-FM2 | 0.270 | 0.016 | | | | | | 😊 | | | 😐 | | | | 😊 | | | 😐 | |
| | TCGT1.8(1.5)0.5-FM2 | TCGT090202-FM2 | 0.379 | 0.008 | | | | | | | | 😐 | | | | | | | 😐 | | |
| | TCGT1.8(1.5)1-FM2 | TCGT090204-FM2 | 0.379 | 0.016 | | | | | | | | 😐 | | | | | | | 😐 | | |
| | TCGT2(1.5)0.2-FM2 | TCGT110201-FM2 | 0.433 | 0.004 | | | | | | | | 😐 | | | | | | | 😐 | | |
| | TCGT2(1.5)0.2-FM2 | TCGT110202-FM2 | 0.433 | 0.008 | | | | | | 😊 | | 😐 | | | | | 😊 | | 😐 | | |
| | TCGT2(1.5)1-FM2 | TCGT110204-FM2 | 0.433 | 0.016 | | | | | | 😊 | | 😐 | | | | | 😊 | | 😐 | | |
| | TCGT3(2.5)0.5-FM2 | TCGT16T302-FM2 | 0.650 | 0.008 | | | | | | | | 😐 | | | | | | | 😐 | | |
| | TCGT3(2.5)1-FM2 | TCGT16T304-FM2 | 0.650 | 0.016 | | | | | | 😊 | | 😐 | | | | | 😊 | | 😐 | | |
| | TCGT3(2.5)2-FM2 | TCGT16T308-FM2 | 0.650 | 0.031 | | | | | | 😊 | | 😐 | | | | | 😊 | | 😐 | | |
|  | TCGT1.2(1.2)0.2-FN2 | TCGT06T101-FN2 | 0.270 | 0.004 | | | | | | | | | | | 😐 | | | | | | |
| | TCGT1.2(1.2)0.5-FN2 | TCGT06T102-FN2 | 0.270 | 0.008 | | | | | | | | | | | 😐 | | | | | | |
| | TCGT1.2(1.2)1-FN2 | TCGT06T104-FN2 | 0.270 | 0.016 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT1.8(1.5)0.5-FN2 | TCGT090202-FN2 | 0.379 | 0.008 | | | | | | | | | | | 😐 | | | | | | |
| | TCGT1.8(1.5)1-FN2 | TCGT090204-FN2 | 0.379 | 0.016 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT2(1.5)0.2-FN2 | TCGT110202-FN2 | 0.433 | 0.008 | | | | | | | | | | | 😐 | | | | | | |
| | TCGT2(1.5)1-FN2 | TCGT110204-FN2 | 0.433 | 0.016 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT3(2.5)0.5-FN2 | TCGT16T304-FN2 | 0.650 | 0.016 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT3(2.5)1-FN2 | TCGT16T308-FN2 | 0.650 | 0.031 | | | | | | | | | | | 😐 | 😊 | | | | | |
|  | TCGT1.2(1.2)1M-FP2 | TCGT06T104M-FP2 | 0.270 | 0.015 | | | | 😊 | | | | | | | | | | | | | |
| | TCGT1.8(1.5)0.5M-FP2 | TCGT090204M-FP2 | 0.379 | 0.015 | | | | 😊 | | | | | | | | | | | | | |
| | TCGT2(1.5)0.2M-FP2 | TCGT110202M-FP2 | 0.433 | 0.007 | | | | 😊 | | | | | | | | | | | | | |
| | TCGT2(1.5)1M-FP2 | TCGT110204M-FP2 | 0.433 | 0.015 | | | | 😊 | | | | | | | | | | | | | |
|  | TCGT2(1.5)0.2-MN2 | TCGT110201-MN2 | 0.433 | 0.004 | | | | | | | | | | | 😐 | | | | | | |
| | TCGT2(1.5)0.2-MN2 | TCGT110202-MN2 | 0.433 | 0.008 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT2(1.5)1-MN2 | TCGT110204-MN2 | 0.433 | 0.016 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT3(2.5)0.5-MN2 | TCGT16T302-MN2 | 0.650 | 0.008 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT3(2.5)1-MN2 | TCGT16T304-MN2 | 0.650 | 0.016 | | | | | | | | | | | 😐 | 😊 | | | | | |
| | TCGT3(2.5)2-MN2 | TCGT16T308-MN2 | 0.650 | 0.031 | | | | | | | | | | | 😐 | 😊 | | | | | |
|  | TCGT1.2(1.2)0.5-FM4 | TCMT06T102-FM4 | 0.270 | 0.008 | | | | | | | | | 😐 | | | | | | | 😐 | |
| | TCGT1.2(1.2)1-FM4 | TCMT06T104-FM4 | 0.270 | 0.016 | | | | | | | | | 😐 | | | | | | | 😐 | |
| | TCGT1.8(1.5)0.5-FM4 | TCMT090202-FM4 | 0.379 | 0.008 | | | | | | | 😊 | 😐 | | | | | | 😊 | 😐 | | |
| | TCGT1.8(1.5)1-FM4 | TCMT090204-FM4 | 0.379 | 0.016 | | | | | | | 😊 | 😐 | | | | | | 😊 | 😐 | | |
| | TCMT1.8(1.5)2-FM4 | TCMT090208-FM4 | 0.379 | 0.031 | | | | | | | 😊 | 😐 | | | | | | 😊 | 😐 | | |
| | TCGT2(1.5)0.2-FM4 | TCMT110202-FM4 | 0.433 | 0.008 | | | | | | | 😊 | 😐 | | ☹ | | | | 😊 | 😐 | | ☹ |
| | TCGT2(1.5)1-FM4 | TCMT110204-FM4 | 0.433 | 0.016 | 😐 | | | | 😐 | | 😊 | 😐 | | ☹ | | | | 😊 | 😐 | | ☹ |
| | TCMT2(1.5)2-FM4 | TCMT110208-FM4 | 0.433 | 0.031 | | | | | | | 😊 | 😐 | | ☹ | | | | 😊 | 😐 | | ☹ |
| | TCGT3(2.5)0.5-FM4 | TCMT16T302-FM4 | 0.650 | 0.008 | | | | | | | | 😐 | | | | | | | 😐 | | |
| | TCGT3(2.5)1-FM4 | TCMT16T304-FM4 | 0.650 | 0.016 | 😐 | | | | 😐 | | 😊 | 😐 | | ☹ | | | | 😊 | 😐 | | ☹ |
| | TCGT3(2.5)2-FM4 | TCMT16T308-FM4 | 0.650 | 0.031 | 😐 | | | | 😐 | | 😊 | 😐 | | ☹ | | | | 😊 | 😐 | | ☹ |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WSM21: TCGT06T101-FM2 WSM21

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

**WALTER SELECT** Optimum indexable insert for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# Positive triangular 60°
## TCGT / TCMT
## Tiger·tec® Gold




## Indexable inserts

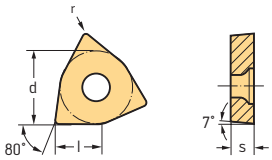
| | ANSI Designation | Designation | l in | r in | P HC WMP20S | P HC WPP10G | P HC WPP20G | P HE WEP10C | M HC WMP20S | M HC WSM01 | M HC WSM10S | M HC WSM20S | M HC WSM21 | M HC WSM30S | N HC WNN10 | N HW WN10 | S HC WSM01 | S HC WSM10S | S HC WSM20S | S HC WSM21 | S HC WSM30S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | TCGT1.2(1.2)0.5-FP4 | TCMT06T102-FP4 | 0.270 | 0.008 | | | ● | | | | | | | | | | | | | | |
| | TCGT1.2(1.2)1-FP4 | TCMT06T104-FP4 | 0.270 | 0.016 | | | ● | ● | | | | | | | | | | | | | |
| | TCGT1.8(1.5)0.5-FP4 | TCMT090202-FP4 | 0.379 | 0.008 | | | ● | | | | | | | | | | | | | | |
| | TCGT1.8(1.5)1-FP4 | TCMT090204-FP4 | 0.379 | 0.016 | | ● | ● | ● | | | | | | | | | | | | | |
| | TCMT1.8(1.5)2-FP4 | TCMT090208-FP4 | 0.379 | 0.031 | | | ● | | | | | | | | | | | | | | |
| | TCGT2(1.5)0.2-FP4 | TCMT110202-FP4 | 0.433 | 0.008 | | ● | ● | | | | | | | | | | | | | | |
| | TCGT2(1.5)1-FP4 | TCMT110204-FP4 | 0.433 | 0.016 | | ● | ● | ● | | | | | | | | | | | | | |
| | TCMT2(1.5)2-FP4 | TCMT110208-FP4 | 0.433 | 0.031 | | ● | ● | | | | | | | | | | | | | | |
| | TCGT3(2.5)0.5-FP4 | TCMT16T302-FP4 | 0.650 | 0.008 | | | ● | | | | | | | | | | | | | | |
| | TCGT3(2.5)1-FP4 | TCMT16T304-FP4 | 0.650 | 0.016 | | ● | ● | | | | | | | | | | | | | | |
| | TCGT3(2.5)2-FP4 | TCMT16T308-FP4 | 0.650 | 0.031 | | ● | ● | ● | | | | | | | | | | | | | |
|  | TCGT2(1.5)1-FP6 | TCMT110204-FP6 | 0.433 | 0.016 | | | ● | | | | | | | | | | | | | | |
| | TCMT2(1.5)2-FP6 | TCMT110208-FP6 | 0.433 | 0.031 | | | ● | | | | | | | | | | | | | | |
| | TCGT3(2.5)1-FP6 | TCMT16T304-FP6 | 0.650 | 0.016 | | | ● | | | | | | | | | | | | | | |
| | TCGT3(2.5)2-FP6 | TCMT16T308-FP6 | 0.650 | 0.031 | | | ● | | | | | | | | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WSM21: TCGT06T101-FM2 WSM21

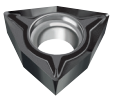
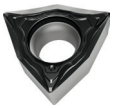
HC = Coated carbide
HE = Coated cermet
HW = Uncoated carbide

B 2

# Positive Trigon 80°
# WCGT / WCMT / WCMW
# Tiger·tec® Gold




## Indexable inserts

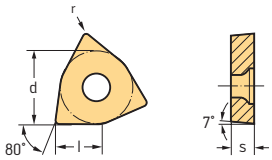
| | ANSI Designation | Designation | Number of cutting edges | l in | r in | P HC WPP10G | P HC WPP20G | P HC WTP35 | P HC WXM15 | M HC WSM20S | M HC WSM21 | M HC WSM30S | M HC WXM15 | K BH WCB80 | K HC WAK15 | K HC WXM15 | N DP WCD10 | N HC WNN10 | N HW WK1 | S HC WSM20S | S HC WSM21 | S HC WSM30S | H BH WCB50 | H BH WCB80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | WCGT1.8(1.5)0.5-FM2 | WCGT030202-FM2 | | 0.154 | 0.008 | | | | | | 😐 | | | | | | | | | | 😐 | | | |
| | WCGT1.8(1.5)1-FM2 | WCGT030204-FM2 | | 0.154 | 0.016 | | | | | | 😐 | | | | | | | | | | 😐 | | | |
| | WCGT2(1.5)0.5-FM2 | WCGT040202-FM2 | | 0.171 | 0.008 | | | | | | 😐 | | | | | | | | | | 😐 | | | |
| | WCGT2(1.5)1-FM2 | WCGT040204-FM2 | | 0.171 | 0.016 | | | | | | 😐 | | | | | | | | | | 😐 | | | |
|  | WCGT1.2(0.2)0.5-FN2 | WCGT020102-FN2 | | 0.106 | 0.008 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT1.2(0.2)1-FN2 | WCGT020104-FN2 | | 0.106 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT1.8(1.5)0.5-FN2 | WCGT030202-FN2 | | 0.154 | 0.008 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT1.8(1.5)1-FN2 | WCGT030204-FN2 | | 0.154 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT2(1.5)0.5-FN2 | WCGT040202-FN2 | | 0.171 | 0.008 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT2(1.5)1-FN2 | WCGT040204-FN2 | | 0.171 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT3(2.5)1-FN2 | WCGT06T304-FN2 | | 0.257 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT3(2.5)2-FN2 | WCGT06T308-FN2 | | 0.257 | 0.031 | | | | | | | | | | | | | 😐 | | | | | | |
|  | WCGT1.8(1.5)0.5-MN2 | WCGT030202-MN2 | | 0.154 | 0.008 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT1.8(1.5)1-MN2 | WCGT030204-MN2 | | 0.154 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT2(1.5)1-MN2 | WCGT040204-MN2 | | 0.171 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT3(2.5)0.5-MN2 | WCGT06T302-MN2 | | 0.257 | 0.008 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT3(2.5)1-MN2 | WCGT06T304-MN2 | | 0.257 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT3(2.5)2-MN2 | WCGT080404-MN2 | | 0.342 | 0.016 | | | | | | | | | | | | | 😐 | | | | | | |
| | WCGT432-MN2 | WCGT080408-MN2 | | 0.342 | 0.031 | | | | | | | | | | | | | 😐 | | | | | | |
|  | WCGT1.2(0.2)0.5-X15 | WCGT020102-X15 | | 0.106 | 0.008 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | 😐 | | | | | |
| | WCGT1.2(0.2)1-X15 | WCGT020104-X15 | | 0.106 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | WCGT1.8(1.5)0.5-X15 | WCGT030202-X15 | | 0.138 | 0.008 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | 😐 | | | | | |
| | WCGT1.8(1.5)1-X15 | WCGT030204-X15 | | 0.138 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | WCGT2(1.5)0.5-X15 | WCGT040202-X15 | | 0.169 | 0.008 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | WCGT2(1.5)1-X15 | WCGT040204-X15 | | 0.169 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | | WCGT050304-X15 | | 0.214 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
|  | WCGT1.2(0.2)0.5-X25 | WCGT020102-X25 | | 0.106 | 0.008 | | | | | | | | | | | | | | 😐 | | | | | |
| | WCGT1.8(1.5)0.5-X25 | WCGT030202-X25 | | 0.138 | 0.008 | | | | | | | | | | | | | | 😐 | | | | | |
| | WCGT1.8(1.5)1-X25 | WCGT030204-X25 | | 0.138 | 0.016 | | | | | | | | | | | | | | 😐 | | | | | |
| | WCGT2(1.5)1-X25 | WCGT040204-X25 | | 0.169 | 0.016 | | | | | | | | | | | | | | 😐 | | | | | |
| | | WCGT050304-X25 | | 0.214 | 0.016 | | | | | | | | | | | | | | 😐 | | | | | |
|  | WCGT1.2(0.2)0.5-X5 | WCGT020102-X5 | | 0.106 | 0.008 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | 😐 | | | | | |
| | WCGT1.2(0.2)1-X5 | WCGT020104-X5 | | 0.106 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | WCGT1.8(1.5)0.5-X5 | WCGT030202-X5 | | 0.138 | 0.008 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | WCGT1.8(1.5)1-X5 | WCGT030204-X5 | | 0.138 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | WCGT2(1.5)0.5-X5 | WCGT040202-X5 | | 0.169 | 0.008 | | | 😐 | | | | | | | 😊 | | | | 😐 | | | | | |
| | WCGT2(1.5)1-X5 | WCGT040204-X5 | | 0.169 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | | | | | | |
| | | WCGT050304-X5 | | 0.214 | 0.016 | | | 😐 | 😊 | | | | 😊 | | 😊 | 😊 | | | 😐 | | | | | |
|  | WCGT2(1.5)0.5-FM4 | WCMT040202-FM4 | | 0.171 | 0.008 | | | | | 😐 | | 😵 | | | | | | | | 😐 | | 😵 | | |
| | WCGT2(1.5)1-FM4 | WCMT040204-FM4 | | 0.171 | 0.016 | | | | | 😐 | | 😵 | | | | | | | | 😐 | | 😵 | | |
| | WCGT3(2.5)1-FM4 | WCMT06T304-FM4 | | 0.257 | 0.016 | | | | | 😐 | | 😵 | | | | | | | | 😐 | | 😵 | | |
| | WCGT3(2.5)2-FM4 | WCMT06T308-FM4 | | 0.257 | 0.031 | | | | | 😐 | | | | | | | | | | 😐 | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WSM21: WCGT030202-FM2 WSM21

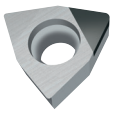
HC = Coated carbide
BH = CBN with high CBN content
DP = Polycrystalline diamond
HW = Uncoated carbide

**WALTER SELECT** Optimum indexable insert for → Good = 😊 → Average = 😐 → Poor = 😵 machining conditions

# Positive Trigon 80°
## WCGT / WCMT / WCMW
## Tiger·tec® Gold




## Indexable inserts

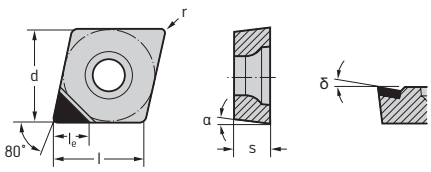
| | ANSI Designation | Designation | Number of cutting edges | l in | r in | P HC WPP10G | P HC WPP20G | P HC WTP35 | P HC WXM15 | M HC WSM20S | M HC WSM21 | M HC WSM30S | M HC WXM15 | K BH WCB80 | K HC WAK15 | K HC WXM15 | N DP WCD10 | N HC WNN10 | N HW WK1 | S HC WSM20S | S HC WSM21 | S HC WSM30S | H BH WCB50 | H BH WCB80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | WCMT2(1.5)0.5-FP4 | WCMT040202-FP4 | | 0.171 | 0.008 | ● | ● | | | | | | | | | | | | | | | | | |
| | WCMT2(1.5)1-FP4 | WCMT040204-FP4 | | 0.171 | 0.016 | ● | ● | | | | | | | | | | | | | | | | | |
| | WCMT2(1.5)2-FP4 | WCMT040208-FP4 | | 0.171 | 0.031 | | ● | | | | | | | | | | | | | | | | | |
| | WCMT3(2.5)0.5-FP4 | WCMT06T302-FP4 | | 0.257 | 0.008 | | ● | | | | | | | | | | | | | | | | | |
| | WCMT3(2.5)1-FP4 | WCMT06T304-FP4 | | 0.257 | 0.016 | | ● | | | | | | | | | | | | | | | | | |
| | WCMT3(2.5)2-FP4 | WCMT06T308-FP4 | | 0.257 | 0.031 | | ● | | | | | | | | | | | | | | | | | |
| | WCMT431-FP4 | WCMT080404-FP4 | | 0.342 | 0.016 | | ● | | | | | | | | | | | | | | | | | |
| | WCMT432-FP4 | WCMT080408-FP4 | | 0.342 | 0.031 | | ● | | | | | | | | | | | | | | | | | |
|  | WCMW1.2(0.2)0.5 | WCMW020102 | 1 | 0.106 | 0.008 | | | | | | | | | ● | | | | | | | | | ● | ● |
| | WCMW1.2(0.2)1 | WCMW020104 | 1 | 0.106 | 0.016 | | | | | | | | | ● | | | | | | | | | ● | |
| | WCMW1.8(1.5)0.5 | WCMW030202 | 1 | 0.138 | 0.008 | | | | | | | | | ● | | | | | | | | | ● | ● |
| | WCMW1.8(1.5)1 | WCMW030204 | 1 | 0.138 | 0.016 | | | | | | | | | ● | | | | | | | | | ● | ● |
| | WCMW2(1.5)0.5 | WCMW040202 | 1 | 0.169 | 0.008 | | | | | | | | | | | | | | | | | | ● | |
| | WCMW2(1.5)1 | WCMW040204 | 1 | 0.169 | 0.016 | | | | | | | | | ● | | | | | | | | | ● | ● |
| | | WCMW050304 | 1 | 0.214 | 0.016 | | | | | | | | | ● | | | | | | | | | ● | ● |
|  | WCMW1.2(0.2)1 | WCMW020104 | | 0.106 | 0.016 | | | | | | | | | | | | ● | | | | | | | |
| | WCMW1.8(1.5)0.5 | WCMW030202 | | 0.138 | 0.008 | | | | | | | | | | | | ● | | | | | | | |
| | WCMW1.8(1.5)1 | WCMW030204 | | 0.138 | 0.016 | | | | | | | | | | | | ● | | | | | | | |
| | WCMW2(1.5)0.5 | WCMW040202 | | 0.169 | 0.008 | | | | | | | | | | | | ● | | | | | | | |
| | WCMW2(1.5)1 | WCMW040204 | | 0.169 | 0.016 | | | | | | | | | | | | ● | | | | | | | |
| | | WCMW050304 | | 0.214 | 0.016 | | | | | | | | | | | | ● | | | | | | | |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WSM21: WCGT030202-FM2 WSM21

HC = Coated carbide
BH = CBN with high CBN content
DP = Polycrystalline diamond
HW = Uncoated carbide

B 2

# PCD – Positive rhombic 80°
# CPGW



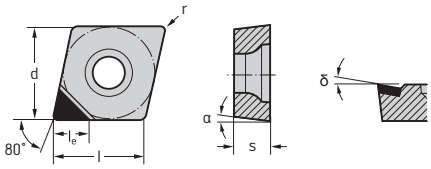

## Indexable inserts

| | ANSI Designation | Designation | Number of cutting edges | $l_e$ in | l in | r in | α | | N DP WDN10 | O DP WDN10 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | CPGW1.8(1.5)1FS-1 | CPGW050204FS-1 | 1 | 0.118 | 0.222 | 0.016 | 11° | 0° | ☺ | ☺ |
| | CPGW2(1.5)1FS-1 | CPGW060204FS-1 | 1 | 0.138 | 0.254 | 0.016 | 11° | 0° | ☺ | ☺ |
| | CPGW3(2.5)1FS-1 | CPGW09T304FS-1 | 1 | 0.157 | 0.381 | 0.016 | 11° | 0° | ☺ | ☺ |
| | CPGW3(2.5)2FS-1 | CPGW09T308FS-1 | 1 | 0.157 | 0.381 | 0.031 | 11° | 0° | ☺ | ☺ |
| | CPGW432FS-1 | CPGW120408FS-1 | 1 | 0.157 | 0.508 | 0.031 | 11° | 0° | ☺ | ☺ |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WDN10: CPGW050204FS-1 WDN10

DP = Polycrystalline diamond

# PCD – Positive rhombic 80°
# CCGT / CCGW




## Indexable inserts

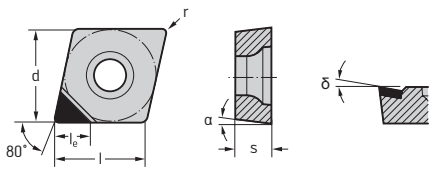
| | ANSI Designation | Designation | Number of cutting edges | $l_e$ in | l in | r in | α | | N DP WDN10 | O DP WDN10 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | CCGT2(1.5)0.5FS-1 | CCGT060202FS-1 | 1 | 0.138 | 0.254 | 0.008 | 7° | 7° | ☺ | ☺ |
| | CCGT2(1.5)1FS-1 | CCGT060204FS-1 | 1 | 0.138 | 0.254 | 0.016 | 7° | 7° | ☺ | ☺ |
| | CCGT2(1.5)2FS-1 | CCGT060208FS-1 | 1 | 0.138 | 0.254 | 0.031 | 7° | 7° | ☺ | ☺ |
| | CCGT3(2.5)1FS-1 | CCGT09T304FS-1 | 1 | 0.157 | 0.381 | 0.016 | 7° | 10° | ☺ | ☺ |
| | CCGT3(2.5)2FS-1 | CCGT09T308FS-1 | 1 | 0.157 | 0.381 | 0.031 | 7° | 10° | ☺ | ☺ |
|  Chipbreaker | CCGT2(1.5)1FS-M1 | CCGT060204FS-M1 | 1 | 0.138 | 0.254 | 0.016 | 7° | | ☺ | ☺ |
| | CCGT3(2.5)1FS-M1 | CCGT09T304FS-M1 | 1 | 0.157 | 0.381 | 0.016 | 7° | | ☺ | ☺ |
|  | CCGW2(1.5)0.5FS-1 | CCGW060202FS-1 | 1 | 0.142 | 0.254 | 0.008 | 7° | 0° | ☺ | ☺ |
| | CCGW2(1.5)1FS-1 | CCGW060204FS-1 | 1 | 0.138 | 0.254 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW2(1.5)2FS-1 | CCGW060208FS-1 | 1 | 0.138 | 0.254 | 0.031 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)0.5FS-1 | CCGW09T302FS-1 | 1 | 0.161 | 0.381 | 0.008 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)1FS-1 | CCGW09T304FS-1 | 1 | 0.161 | 0.381 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)2FS-1 | CCGW09T308FS-1 | 1 | 0.157 | 0.381 | 0.031 | 7° | 0° | ☺ | ☺ |
| | CCGW431FS-1 | CCGW120404FS-1 | 1 | 0.161 | 0.508 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW432FS-1 | CCGW120408FS-1 | 1 | 0.157 | 0.508 | 0.031 | 7° | 0° | ☺ | ☺ |

See the ISO 1832 designation key for dimensions
Ordering example for the grade WDN10: CCGT060202FS-1 WDN10

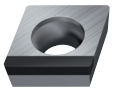
DP = Polycrystalline diamond

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# PCD – Positive rhombic 80°
# CCGT / CCGW



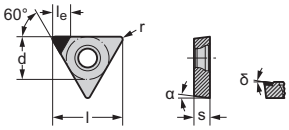

## Indexable inserts

| | ANSI Designation | Designation | Number of cutting edges | $l_e$ in | l in | r in | α | | N DP WDN10 | O DP WDN10 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | CCGW2(1.5)1FSL-9 | CCGW060204FSL-9 | 1 | 0.252 | 0.254 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)1FSL-9 | CCGW09T304FSL-9 | 1 | 0.382 | 0.381 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)2FSL-9 | CCGW09T308FSL-9 | 1 | 0.382 | 0.381 | 0.031 | 7° | 0° | ☺ | ☺ |
|  | CCGW2(1.5)1FSR-9 | CCGW060204FSR-9 | 1 | 0.252 | 0.254 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)1FSR-9 | CCGW09T304FSR-9 | 1 | 0.382 | 0.381 | 0.016 | 7° | 0° | ☺ | ☺ |
| | CCGW3(2.5)2FSR-9 | CCGW09T308FSR-9 | 1 | 0.382 | 0.381 | 0.031 | 7° | 0° | ☺ | ☺ |

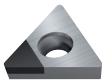
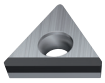
See the ISO 1832 designation key for dimensions
Ordering example for the grade WDN10: CCGT060202FS-1 WDN10

DP = Polycrystalline diamond

# PCD – Positive triangular 60°
# TCGW




## Indexable inserts

| | ANSI Designation | Designation | Number of cutting edges | $l_e$ in | l in | r in | α | | N DP WDN10 | O DP WDN10 |
|---|---|---|---|---|---|---|---|---|---|---|
|  | TCGW1.8(1.5)1FS-1 | TCGW090204FS-1 | 1 | 0.150 | 0.379 | 0.016 | 7° | 0° | ☺ | ☺ |
| | TCGW2(1.5)0.5FS-1 | TCGW110202FS-1 | 1 | 0.173 | 0.433 | 0.008 | 7° | 0° | ☺ | ☺ |
| | TCGW2(1.5)1FS-1 | TCGW110204FS-1 | 1 | 0.169 | 0.433 | 0.016 | 7° | 0° | ☺ | ☺ |
| | TCGW2(1.5)2FS-1 | TCGW110208FS-1 | 1 | 0.157 | 0.433 | 0.031 | 7° | 0° | ☺ | ☺ |
| | TCGW3(2.5)1FS-1 | TCGW16T304FS-1 | 1 | 0.169 | 0.650 | 0.016 | 7° | 0° | ☺ | ☺ |
| | TCGW3(2.5)2FS-1 | TCGW16T308FS-1 | 1 | 0.157 | 0.650 | 0.031 | 7° | 0° | ☺ | ☺ |
|  | TCGW1.8(1.5)1FS-9 | TCGW090204FS-9 | 1 | 0.354 | 0.379 | 0.016 | 7° | 0° | ☺ | ☺ |
| | TCGW2(1.5)1FS-9 | TCGW110204FS-9 | 1 | 0.409 | 0.433 | 0.016 | 7° | 0° | ☺ | ☺ |
| | TCGW3(2.5)2FS-9 | TCGW16T308FS-9 | 1 | 0.602 | 0.650 | 0.031 | 7° | 0° | ☺ | ☺ |

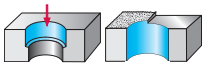
See the ISO 1832 designation key for dimensions
Ordering example for the grade WDN10: TCGW090204FS-1 WDN10

DP = Polycrystalline diamond

**WALTER SELECT** Optimum indexable insert for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

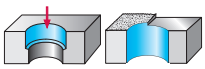
# Walter Capto™ two flute boring tools



| | | | |
|---|---|---|---|
| **Machining** |  | |  |
| **Diameter range inch**<br>**Diameter range mm** | 0.787–1.299<br>[20–33] | 1.299–6.024<br>[33–153] | 5.827–24.409<br>[148–620] |
| |  |  |  |
| **Designation** | B3221 | B3220 | B5460 |
| **Display** | analog | analog | analog |
| **Shank** | | | |
| **Walter Capto™** | ✔ | ✔ | ✔ |
| **ScrewFit** | ✔ | ✔ | |
| **NCT** | | | |
| **P** Steel | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● |
| **K** Cast iron | ●● | ●● | ●● |
| **N** NF metals | ● | ● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● |
| **H** Hard materials | | | |
| **O** Other | | | |
| **Solid carbide boring bar** | | | |
| **Matching insert-types** |  |  |  |
| **Page in catalog** | B 462 | B 468 | B 476 |
| **QR code** | | | |
| www.walter-tools.com/woc/ | B3221 | B3220 | B5460 |

**WALTER SELECT** ●● Primary application ● Other application

# Walter Capto™ two flute boring tools

| | |
|---|---|
| Machining |  |
| Diameter range inch<br>Diameter range mm | 5.827–24.409<br>[148–620] |
| |  |
| Designation | B5560 |
| Display | analog |
| Shank | |
| Walter Capto™ | ✔ |
| ScrewFit | |
| NCT | |
| **P** Steel | ●● |
| **M** Stainless steel | ●● |
| **K** Cast iron | ●● |
| **N** NF metals | ●● |
| **S** Materials with difficult cutting properties | ●● |
| **H** Hard materials | |
| **O** Other | |
| Solid carbide boring bar | |
| Matching insert-types |  |
| Page in catalog | B 484 |
| QR code | |
| www.walter-tools.com/woc/ | B5560 |

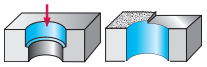
B 2

WALTER SELECT

●● Primary application ● Other application

# Walter NCT two flute boring tools

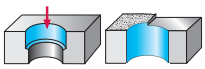


| Machining |  |  |
|---|---|---|
| **Diameter range inch**<br>**Diameter range mm** | 0.787–1.299<br>[20–33] | 1.299–6.024<br>[33–153] | 5.827–24.409<br>[148–620] |
| |  |  |  |
| **Designation** | B3221 | B3220 | B5460 |
| **Display** | analog | analog | analog |
| **Shank** | | | |
| **Walter Capto™** | | | |
| **ScrewFit** | | | |
| **NCT** | ✔ | ✔ | ✔ |
| **P** Steel | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● |
| **K** Cast iron | ●● | ●● | ●● |
| **N** NF metals | ● | ● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● |
| **H** Hard materials | | | |
| **O** Other | | | |
| **Solid carbide boring bar** | | | |
| **Matching insert-types** |  |  |  |
| **Page in catalog** | B 464 | B 470 | B 482 |
| **QR code** | | | |
| www.walter-tools.com/woc/ | B3221 | B3220 | B5460 |

**WALTER SELECT**

●● Primary application ● Other application

# Walter NCT two flute boring tools

| | |
|---|---|
| Machining |  |
| Diameter range inch<br>Diameter range mm | 5.827–24.409<br>[148–620] |
| |  |
| Designation | B5560 |
| Display | analog |
| Shank | |
| Walter Capto™ | |
| ScrewFit | |
| NCT | ✔ |
| **P** Steel | ●● |
| **M** Stainless steel | ●● |
| **K** Cast iron | ●● |
| **N** NF metals | ●● |
| **S** Materials with difficult cutting properties | ●● |
| **H** Hard materials | |
| **O** Other | |
| Solid carbide boring bar | |
| Matching insert-types |  |
| Page in catalog | B 486 |
| QR code | |
| www.walter-tools.com/woc/ | B5560 |

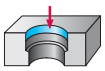
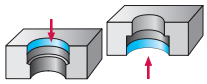
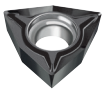
B 2

WALTER SELECT

●● Primary application ● Other application

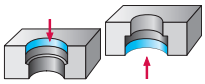
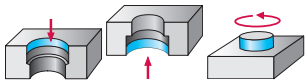
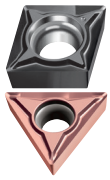
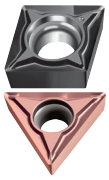
# Walter Capto™/ScrewFit precision boring tools



| | | | |
|---|---|---|---|
| **Machining** |  |  |  |
| **Diameter range inch** | 0.039–0.787 | 0.118–4.882 | 0.748–6.575 |
| **Diameter range mm** | [1–20] | 3–124 | [19–167] |
| |  |  |  |
| **Designation** | B5110 | B4035 | B5115 |
| **Display** | analog | digital | analog |
| **Shank** | | | |
| **Walter Capto™** | ✔ | ✔ | ✔ |
| **ScrewFit** | ✔ | | ✔ |
| **NCT** | | | |
| **P** Steel | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● |
| **K** Cast iron | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● | ●● |
| **H** Hard materials | ● | ● | ● |
| **O** Other | ● | ● | ● |
| **Solid carbide boring bar** |  | | |
| **Matching insert-types** |  |  |  |
| **Page in catalog** | B 512 | B 506 | B 520 |
| **QR code** | | | |
| www.walter-tools.com/woc/ | B5110 | B4035 | B5115 |

**WALTER SELECT** ●● Primary application ● Other application

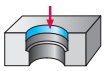
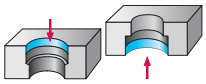
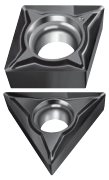
# Walter Capto™/ScrewFit precision boring tools

| | | |
|---|---|---|
| **Machining** |  |  |
| **Diameter range inch**<br>**Diameter range mm** | 2.717–6.575<br>[69–167] | 5.827–25.000<br>[148–635] |
| |  |  |
| **Designation** | B5125 | B5120 |
| **Display** | analog | analog |
| **Shank** | | |
| **Walter Capto™** | ✔ | ✔ |
| **ScrewFit** | | |
| **NCT** | | |
| **P** Steel | ●● | ●● |
| **M** Stainless steel | ●● | ●● |
| **K** Cast iron | ●● | ●● |
| **N** NF metals | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● |
| **H** Hard materials | ● | ● |
| **O** Other | ● | ● |
| **Solid carbide boring bar** | | |
| **Matching insert-types** |  |  |
| **Page in catalog** | B 534 | B 542 |
| **QR code** | | |
| www.walter-tools.com/woc/ | B5125 | B5120 |

B2

**WALTER SELECT** ●● Primary application ● Other application

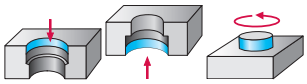
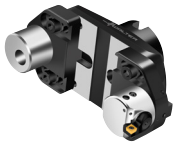
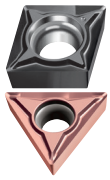
# Walter NCT precision boring tools

| | | |
|---|---|---|
| **Machining** |  |  |
| **Diameter range inch**<br>**Diameter range mm** | **0.039–0.787**<br>**[1–20]** | **0.748–6.575**<br>**[19–167]** |
| |  |  |
| **Designation** | B5110 | B5115 |
| **Display** | analog | analog |
| **Shank** | | |
| **Walter Capto™** | | |
| **ScrewFit** | | |
| **NCT** | ✔ | ✔ |
| **P** Steel | ●● | ●● |
| **M** Stainless steel | ●● | ●● |
| **K** Cast iron | ●● | ●● |
| **N** NF metals | ●● | ●● |
| **S** Materials with difficult cutting properties | ●● | ●● |
| **H** Hard materials | ● | ● |
| **O** Other | ● | ● |
| **Solid carbide boring bar** |  | |
| **Matching insert-types** |  |  |
| **Page in catalog** | B 516 | B 530 |
| **QR code** | | |
| www.walter-tools.com/woc/ | B5110 | B5115 |

**WALTER SELECT**

●● Primary application ● Other application

# Walter NCT precision boring tools

| | |
|---|---|
| Machining |  |
| Diameter range inch<br>Diameter range mm | 5.827–25.000<br>[148–635] |
| |  |
| Designation | B5120 |
| Display | analog |
| Shank | |
| Walter Capto™ | |
| ScrewFit | |
| NCT | ✔ |
| **P** Steel | ●● |
| **M** Stainless steel | ●● |
| **K** Cast iron | ●● |
| **N** NF metals | ●● |
| **S** Materials with difficult cutting properties | ●● |
| **H** Hard materials | ● |
| **O** Other | ● |
| Solid carbide boring bar | |
| Matching insert-types |  |
| Page in catalog | B 550 |
| QR code | |
| www.walter-tools.com/woc/ | B5120 |

B 2

WALTER SELECT

●● Primary application ● Other application

# Designation key for Walter Precision XT/Walter Boring XT

**Example:**

| B | 5 | 1 | 15 | – | 023 | – | 029 | – | C3 | – | TC06 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | | 5 | | 6 | | 7 | | 8 |



| 1 | |
|---|---|
| **Tool group** | |
| B | Boring<br>Precision boring |

| 2 | |
|---|---|
| **Generation** | |
| 5 | Walter Precision XT<br>Walter Boring XT |

| 3 | |
|---|---|
| **Tool type** | |
| 1 | Precision boring tool, analogue radial |
| 4 | Boring tool, radial |
| 5 | Boring tool, tangential/lateral indexable insert |

| 4 | |
|---|---|
| **Tool type** | |
| 10 | With boring bar |
| 15 | With cartridge |
| 20 | With bridge design |
| 25 | Lightweight design with cartridge |
| 60 | Boring Z = two-bridge design |

| 5 |
|---|
| **Min. diameter** |

| 6 |
|---|
| **Max. diameter** |

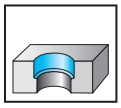
| 7 | |
|---|---|
| **Shank** | |
| C | Walter Capto |
| N | NCT |
| T | ScrewFit |

| 8 | |
|---|---|
| **Indexable insert/designation suffix** | |
| B | Basic body |
| CS | Solid carbide |
| TC.. | Indexable insert type and size |

# Double-edged boring tool

## B3220 / B3221 mm inch

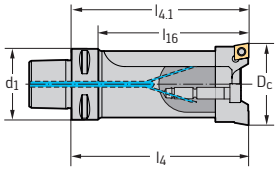
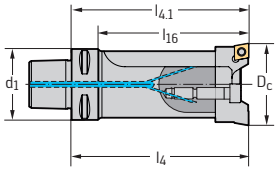
| $D_c$ 20–41 | κ=90° | Z=2 |
|---|---|---|



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3220 | ●● | ●● | ●● | ● | ●● | | |
| B3221 | ●● | ●● | ●● | ● | ●● | | |

## Tool

B 2

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|---|
|  Walter Capto™ in acc. with ISO 26623 | B3220.C3.033-041.Z2.CC06 | 1.300 – 1.614 | 33–41 | C3 | 3.150 | 80 |
|  Walter Capto™ in acc. with ISO 26623 | B3221.C3.020-024.Z2.CC06 | 0.787 – 0.945 | 20–24 | C3 | 3.150 | 80 |
| | B3221.C3.023-027.Z2.CC06 | 0.906 – 1.603 | 23–27 | C3 | 3.150 | 80 |
| | B3221.C3.026-033.Z2.CC06 | 1.024 – 1.300 | 26–33 | C3 | 3.150 | 80 |

Bodies and assembly parts are included in the scope of delivery

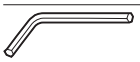
## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. |
|---|---|---|
|  | Conical spring washer for cartridge | FS1099 |
|  | Clamping screw for cartridge | FS1094 (SW 4)<br>62 in lbs (7 Nm) |

| $l_{4.1}$ in | $l_{4.1}$ mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 3.157 | 80.2 | 0.88 | 0.4 | CC .. 2(1.5) .<br>CC .. 0602 .. | B3220G.C3.033-044.Z2 | EB205-206.CC06 |
| | | 0.88 | 0.2 | CC .. 2(1.5) .<br>CC .. 0602 .. | B3221G.C3.020-027.Z2 | EB401.CC06 |
| | | 0.88 | 0.2 | | B3221G.C3.020-027.Z2 | EB402.CC06 |
| | | 0.88 | 0.2 | | B3221G.C3.026-035.Z2 | EB403.CC06 |

B 2

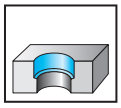
## Accessories

| | Type | CC .. 2(1.5) .<br>CC .. 0602 .. |
|---|---|---|
|  | Screwdriver | FS230 (T8) |
|  | ISO 2936-1.3 key | ISO2936-1.3 (SW 1.3) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | ARS cartridge | EB205-206-1.CC06 (ARS) |

# Double-edged boring tool

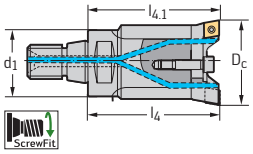
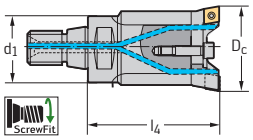
## B3220 / B3221 mm inch

| $D_c$ 20–41 | κ=90° | Z=2 |
|---|---|---|



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3220 | ●● | ●● | ●● | ● | ●● | | |
| B3221 | ●● | ●● | ●● | ● | ●● | | |

## Tool

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|---|
|  ScrewFit | B3220.T28.33-41.Z2.CC06 | 1.300 – 1.614 | 33–41 | T28 | 2.165 | 55 |
|  ScrewFit | B3221.T18.20-24.Z2.CC06 | 0.787 – 0.945 | 20–24 | T18 | 1.378 | 35 |
| | B3221.T18.23-27.Z2.CC06 | 0.906 – 1.603 | 23–27 | T18 | 1.378 | 35 |
| | B3221.T22.26-33.Z2.CC06 | 1.024 – 1.300 | 26–33 | T22 | 1.575 | 40 |

Bodies and assembly parts are included in the scope of delivery

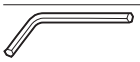
## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. |
|---|---|---|
|  | Conical spring washer for cartridge | FS1099 |
|  | Clamping screw for cartridge | FS1094 (SW 4)<br>62 in lbs (7 Nm) |

| $l_{4.1}$ in | $l_{4.1}$ mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 2.173 | 55.2 | 0.66 | 0.3 | CC .. 2(1.5) .<br>CC .. 0602 .. | B3220G.T28.33-41.Z2 | EB205-206.CC06 |
| | | 0.22 | 0.1 | CC .. 2(1.5) .<br>CC .. 0602 .. | B3221G.T18.20-27.Z2 | EB401.CC06 |
| | | 0.22 | 0.1 | | B3221G.T18.20-27.Z2 | EB402.CC06 |
| | | 0.22 | 0.1 | | B3221G.T22.26-33.Z2 | EB403.CC06 |

B 2

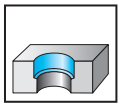
## Accessories

| | Type | CC .. 2(1.5) .<br>CC .. 0602 .. |
|---|---|---|
|  | Screwdriver | FS230 (T8) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) |
|  | ARS cartridge | EB205-206-1.CC06 (ARS) |

# Double-edged boring tool

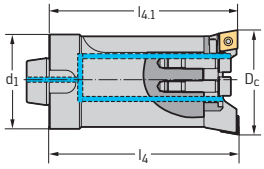
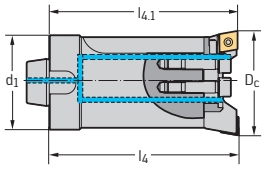
## B3220 / B3221 mm inch

| $D_c$ 20–41 | κ=90° | Z=2 |
|---|---|---|



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3220 | ●● | ●● | ●● | ● | ●● | | |
| B3221 | ●● | ●● | ●● | ● | ●● | | |

## Tool

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|---|
|  Modular NCT adaptor | B3220.N3.033-041.Z2.CC06 | 1.299 – 1.614 | 33–41 | NCT 32 | 3.150 | 80 |
|  Modular NCT adaptor | B3221.N2.020-024.Z2.CC06 | 0.787 – 0.945 | 20–24 | NCT 25 | 3.150 | 80 |
| | B3221.N2.023-027.Z2.CC06 | 0.906 – 1.063 | 23–27 | NCT 25 | 3.150 | 80 |
| | B3221.N2.026-033.Z2.CC06 | 1.024 – 1.299 | 26–33 | NCT 25 | 3.150 | 80 |

Bodies and assembly parts are included in the scope of delivery

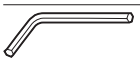
## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. |
|---|---|---|
|  | Conical spring washer for cartridge | FS1099 |
|  | Clamping screw for cartridge | FS1094 (SW 4)<br>62 in lbs (7 Nm) |
|  | Drive pin | FK312 |
|  | Clamping screw for drive pin | FS503 (SW 2) |

| | $l_{4.1}$ in | $l_{4.1}$ mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|---|
| | 3.157 | 80.2 | 0.88 | 0.4 | CC .. 2(1.5) .<br>CC .. 0602 .. | B3220G.N3.033-044.Z2 | EB205-206.CC06 |
| | | | 0.44 | 0.2 | CC .. 2(1.5) .<br>CC .. 0602 .. | B3221G.N2.020-027.Z2 | EB401.CC06 |
| | | | 0.44 | 0.2 | | B3221G.N2.020-027.Z2 | EB402.CC06 |
| | | | 0.44 | 0.2 | | B3221G.N2.026-035.Z2 | EB403.CC06 |

B 2

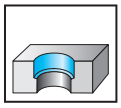
## Accessories

| | Type | CC .. 2(1.5) .<br>CC .. 0602 .. |
|---|---|---|
|  | Screwdriver | FS230 (T8) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) |
|  | ARS cartridge | EB205-206-1.CC06 (ARS) |

# Double-edged boring tool

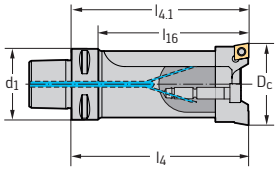
## B3220 mm inch

$D_c$ 41–153 | κ=90° | Z=2



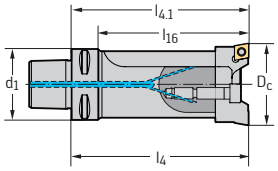
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3220 | ●● | ●● | ●● | ● | ●● | | |

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B3220.C4.041-055.Z2.CC09 | 1.614 – 2.165 | 41–55 | C4 | 3.150 | 80 |
| B3220.C5.055-070.Z2.CC09 | 2.165 – 2.756 | 55–70 | C5 | 3.937 | 100 |




Walter Capto™ in acc. with ISO 26623

| | | | | | |
|---|---|---|---|---|---|
| B3220.C6.070-090.Z2.CC12 | 2.756 – 3.543 | 70–90 | C6 | 3.937 | 110 |
| B3220.C8.090-110.Z2.CC12 | 3.543 – 4.331 | 90–110 | C8 | 4.331 | 110 |
| B3220.C8.110-133.Z2.CC12 | 4.331 – 5.236 | 110–133 | C8 | 4.331 | 110 |
| B3220.C8.130-153.Z2.CC12 | 5.118 – 6.024 | 130–153 | C8 | 4.331 | 110 |

Bodies and assembly parts are included in the scope of delivery

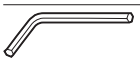
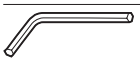
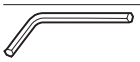
## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | CC .. 43 . CC .. 1204 .. |
|---|---|---|---|
|  | Conical spring washer for cartridge | FS1100 | FS1101 |
|  | Clamping screw for cartridge | FS1095 (SW 4)<br>106 in lbs (12 Nm) | FS1096 (SW 6)<br>266 in lbs (30 Nm) |

| | $l_{4.1}$ in | $l_{4.1}$ mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|---|
| | 3.161 | 80.3 | 1.32 | 0.6 | CC .. 3(2.5) . CC .. 09T3 .. | B3220G.C4.041-056.Z2 | EB207-208.CC09 |
| | 3.949 | 100.3 | 2.86 | 1.3 | | B3220G.C5.055-073.Z2 | EB209-210.CC09 |
| | 4.343 | 110.3 | 4.85 | 2.2 | CC .. 43 . CC .. 1204 .. | B3220G.C6.070-093.Z2 | EB211-212.CC12 |
| | 4.343 | 110.3 | 8.38 | 3.8 | | B3220G.C8.090-113.Z2 | EB213-214.CC12 |
| | 4.343 | 110.3 | 9.70 | 4.4 | | B3220G.C8.110-153.Z2 | EB215.CC12 |
| | 4.343 | 110.3 | 9.70 | 4.4 | | B3220G.C8.110-153.Z2 | EB216.CC12 |

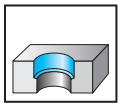
B 2

## Accessories

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | CC .. 43 . CC .. 1204 .. |
|---|---|---|---|
|  | Screwdriver | FS229 (T15) | FS228 (T20) |
|  | ISO 2936-2 key | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-2.5 key | | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | |
|  | ISO 2936-6 key | | ISO2936-6 (SW 6) |
|  | ARS cartridge | EB207-208-1.CC09 (ARS) | |
|  | ISO 2936-8 key | | ISO2936-8 (SW 8) |
|  | ARS cartridge | | EB211-212-1.CC12 (ARS) |

# Double-edged boring tool

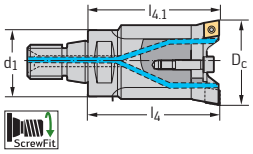
## B3220 mm inch



| $D_c$ 41–153 | κ=90° | Z=2 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3220 | ●● | ●● | ●● | ● | ●● | | |

## Tool




ScrewFit

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B3220.T36.41-55.Z2.CC09 | 1.614 – 2.165 | 41–55 | T36 | 2.559 | 65 |
| B3220.T45.55-70.Z2.CC09 | 2.165 – 2.756 | 55–70 | T45 | 3.150 | 80 |

Bodies and assembly parts are included in the scope of delivery

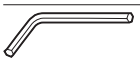
## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. |
|---|---|---|
|  | Conical spring washer for cartridge | FS1100 |
|  | Clamping screw for cartridge | FS1095 (SW 4)<br>106 in lbs (12 Nm) |

| $l_{4.1}$ in | $l_{4.1}$ mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 2.571 | 65.3 | 1.10 | 0.5 | CC .. 3(2.5) .<br>CC .. 09T3 .. | B3220G.T36.41-55.Z2 | EB207-208.CC09 |
| 3.161 | 80.3 | 1.98 | 0.9 | | B3220G.T45.55-70.Z2 | EB209-210.CC09 |

B 2

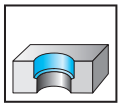
## Accessories

| | Type | CC .. 3(2.5) .<br>CC .. 09T3 .. |
|---|---|---|
|  | Screwdriver | FS229 (T15) |
|  | ISO 2936-2 key | ISO2936-2 (SW 2.5) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) |
|  | ARS cartridge | EB207-208-1.CC09 (ARS) |

# Double-edged boring tool

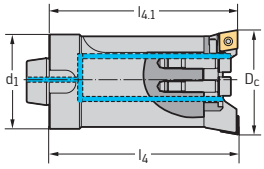
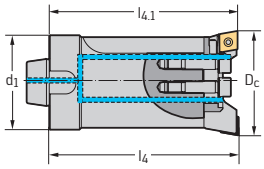
## B3220 mm inch

$D_C$ 41–153 | κ=90° | Z=2



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B3220 | ●● | ●● | ●● | ● | ●● | | |

## Tool

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|---|
|  Modular NCT adaptor | B3220.N4.041-055.Z2.CC09 | 1.614 – 2.165 | 41–55 | NCT 40 | 3.150 | 80 |
| | B3220.N5.055-070.Z2.CC09 | 2.165 – 2.756 | 55–70 | NCT 50 | 3.937 | 100 |
|  Modular NCT adaptor | B3220.N6.070-090.Z2.CC12 | 2.756 – 3.543 | 70–90 | NCT 63 | 3.937 | 100 |
| | B3220.N8.090-110.Z2.CC12 | 3.543 – 4.331 | 90–110 | NCT 80 | 3.937 | 100 |
| | B3220.N8.110-133.Z2.CC12 | 4.331 – 5.236 | 110–133 | NCT 80 | 3.937 | 100 |
| | B3220.N8.130-153.Z2.CC12 | 5.118 – 6.024 | 130–153 | NCT 80 | 3.937 | 100 |

Bodies and assembly parts are included in the scope of delivery

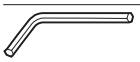
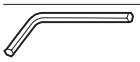
## Assembly parts

| | Type | CC .. (3)2.5 . CC .. 09T3 .. | CC .. 43 . CC .. 1204 .. |
|---|---|---|---|
|  | Conical spring washer for cartridge | FS1100 | FS1101 |
|  | Clamping screw for cartridge | FS1095 (SW 4)<br>106 in lbs (12 Nm) | FS1096 (SW 6)<br>266 in lbs (30 Nm) |
|  | Drive pin | FK313 | |
|  | Clamping screw for drive pin | FS504 (SW 2.5) | |

| | $l_{4.1}$ in | $l_{4.1}$ mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|---|
| | 3.161 | 80.3 | 1.32 | 0.6 | CC .. (3)2.5 .<br>CC .. 09T3 .. | B3220G.N4.041-056.Z2 | EB207-208.CC09 |
| | 3.949 | 100.3 | 2.43 | 1.1 | | B3220G.N5.055-073.Z2 | EB209-210.CC09 |
| | 3.949 | 100.3 | 3.97 | 1.8 | CC .. 43 .<br>CC .. 1204 .. | B3220G.N6.070-093.Z2 | EB211-212.CC12 |
| | 3.949 | 100.3 | 6.39 | 2.9 | | B3220G.N8.090-113.Z2 | EB213-214.CC12 |
| | 3.949 | 100.3 | 7.50 | 3.4 | | B3220G.N8.110-153.Z2 | EB215.CC12 |
| | 3.949 | 100.3 | 7.94 | 3.6 | | B3220G.N8.110-153.Z2 | EB216.CC12 |



## Accessories

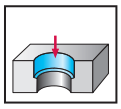
| | Type | CC .. (3)2.5 .<br>CC .. 09T3 .. | CC .. 43 .<br>CC .. 1204 .. |
|---|---|---|---|
|  | Screwdriver | FS229 (T15) | FS228 (T20) |
|  | ISO 2936-2 key | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-2.5 key | | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | |
|  | ISO 2936-6 key | | ISO2936-6 (SW 6) |
|  | ARS cartridge | EB207-208-1.CC09 (ARS) | |
|  | ISO 2936-8 key | | ISO2936-8 (SW 8) |
|  | ARS cartridge | | EB211-212-1.CC12 (ARS) |

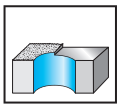
# Double-edged boring tool

## B5460 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120



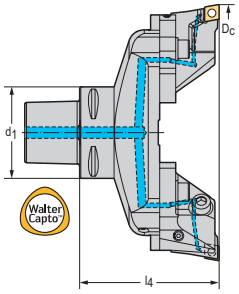


| $D_c$ 148–620 | Z=2 | κ=90° |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5460 | ●● | ●● | ●● | ●● | ●● | | |

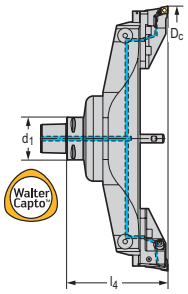
B 2

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-148-200-C8-CC12 | 5.827-7.874 | 148–200 | C8 | 4.803 | 122 |
| B5460-198-250-C8-CC12 | 7.795-9.843 | 198–250 | C8 | 4.803 | 122 |
| B5460-248-300-C8-CC12 | 9.764-11.811 | 248–300 | C8 | 4.803 | 122 |

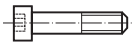



Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-298-380-C8-CC12 | 11.732-14.961 | 298–380 | C8 | 7.047 | 179 |
| B5460-378-460-C8-CC12 | 14.882-18.110 | 378–460 | C8 | 7.244 | 184 |
| B5460-458-540-C8-CC12 | 18.031-21.260 | 458–540 | C8 | 7.441 | 189 |
| B5460-538-620-C8-CC12 | 21.181-24.409 | 538–620 | C8 | 7.638 | 194 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 43 . CC .. 1204 .. | CN .. 64 . CN .. 1906 .. | SC .. 43 . SC .. 1204 .. |
|---|---|---|---|---|
|  | Wedge set | FK398 | FK398 | FK398 |
|  | Clamping screw | FS2662 (HEX8) | FS2662 (HEX8) | FS2662 (HEX8) |
|  | Clamping screw for indexable insert | FS2658 (15IP) 27 in lbs (3 Nm) | | FS2658 (15IP) 27 in lbs (3 Nm) |
|  | Circlip | FS2663 | FS2663 | FS2663 |
|  | Shim | AP197 | AP198 | AP199 |
|  | Washer | FS2647 | FS2647 | FS2647 |
|  | Coolant screw | FS2671 | FS2671 | FS2671 |
|  | Clamping screw for shim | FS2660 | FS2661 (20IP) 57 in lbs (6.4 Nm) | FS2660 |
| | Adjustment set | FS2653 | FS2653 | FS2653 |
|  | Stud | FS2654 | FS2654 | FS2654 |
|  | Disc spring | FS2650 | FS2650 | FS2650 |
|  | RC clamp | | FS2659 | |

| | lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|---|
| | 15.44 | 7 | CC .. 43 .<br>CC .. 1204 .. | B5120-148-000-C8-B | | EB723 | EB725.CC12 |
| | 17.86 | 8.1 | | B5120-198-000-C8-B | | EB723 | EB725.CC12 |
| | 20.29 | 9.2 | | B5120-248-000-C8-B | | EB723 | EB725.CC12 |
| | 34.18 | 15.5 | CC .. 43 .<br>CC .. 1204 .. | B5120-298-000-C8-B | EB731 | EB724 | EB725.CC12 |
| | 38.15 | 17.3 | | B5120-298-000-C8-B | EB732 | EB724 | EB725.CC12 |
| | 42.34 | 19.2 | | B5120-298-000-C8-B | EB733 | EB724 | EB725.CC12 |
| | 47.63 | 21.6 | | B5120-298-000-C8-B | EB734 | EB724 | EB725.CC12 |

## Accessories

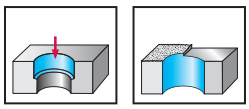
| | Type | CC .. 43 . – SC .. 43 .<br>CC .. 1204 ..–SC .. 1204 .. | CN .. 64 .<br>CN .. 1906 .. |
|---|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque T-handle | FS2041 | FS2041 |
|  | Interchangeable blade | FS2047 (T15IP) | FS2048 (T20IP) |
|  | Screwdriver | FS1485 (T15IP) | FS1486 (T20IP) |

# Double-edged boring tool

## B5460 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120

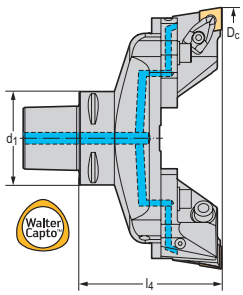


| $D_C$ 148–620 | Z=2 | κ=90° |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5460 | ●● | ●● | ●● | ●● | ●● | | |

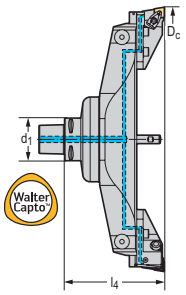
B 2

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_C$ in | $D_C$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-148-200-C8-CN19 | 5.827-7.874 | 148–200 | C8 | 4.803 | 122 |
| B5460-198-250-C8-CN19 | 7.795-9.843 | 198–250 | C8 | 4.803 | 122 |
| B5460-248-300-C8-CN19 | 9.764-11.811 | 248–300 | C8 | 4.803 | 122 |




Walter Capto™ in acc. with ISO 26623

| Designation | $D_C$ in | $D_C$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-298-380-C8-CN19 | 11.732-14.961 | 298–380 | C8 | 7.047 | 179 |
| B5460-378-460-C8-CN19 | 14.882-18.110 | 378–460 | C8 | 7.244 | 184 |
| B5460-458-540-C8-CN19 | 18.031-21.260 | 458–540 | C8 | 7.441 | 189 |
| B5460-538-620-C8-CN19 | 21.181-24.409 | 538–620 | C8 | 7.638 | 194 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | CC .. 43 . CC .. 1204 .. | CN .. 64 . CN .. 1906 .. | SC .. 43 . SC .. 1204 .. |
|---|---|---|---|
| Wedge set | FK398 | FK398 | FK398 |
| Clamping screw | FS2662 (HEX8) | FS2662 (HEX8) | FS2662 (HEX8) |
| Clamping screw for indexable insert | FS2658 (15IP) 27 in lbs (3 Nm) | | FS2658 (15IP) 27 in lbs (3 Nm) |
| Circlip | FS2663 | FS2663 | FS2663 |
| Shim | AP197 | AP198 | AP199 |
| Washer | FS2647 | FS2647 | FS2647 |
| Coolant screw | FS2671 | FS2671 | FS2671 |
| Clamping screw for shim | FS2660 | FS2661 (20IP) 57 in lbs (6.4 Nm) | FS2660 |
| Adjustment set | FS2653 | FS2653 | FS2653 |
| Stud | FS2654 | FS2654 | FS2654 |
| Disc spring | FS2650 | FS2650 | FS2650 |
| RC clamp | | FS2659 | |

| lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|
| 15.66 | 7.1 | CN .. 64 .<br>CN .. 1906 .. | B5120-148-000-C8-B | | EB723 | EB726.CN19 |
| 18.08 | 8.2 | | B5120-198-000-C8-B | | EB723 | EB726.CN19 |
| 20.51 | 9.3 | | B5120-248-000-C8-B | | EB723 | EB726.CN19 |
| 34.62 | 15.7 | CN .. 64 .<br>CN .. 1906 .. | B5120-298-000-C8-B | EB731 | EB724 | EB726.CN19 |
| 38.37 | 17.4 | | B5120-298-000-C8-B | EB732 | EB724 | EB726.CN19 |
| 42.56 | 19.3 | | B5120-298-000-C8-B | EB733 | EB724 | EB726.CN19 |
| 47.85 | 21.7 | | B5120-298-000-C8-B | EB734 | EB724 | EB726.CN19 |

## Accessories

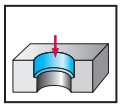
| | Type | CC .. 43 . – SC .. 43 .<br>CC .. 1204 ..–SC .. 1204 .. | CN .. 64 .<br>CN .. 1906 .. |
|---|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque T-handle | FS2041 | FS2041 |
|  | Interchangeable blade | FS2047 (T15IP) | FS2048 (T20IP) |
|  | Screwdriver | FS1485 (T15IP) | FS1486 (T20IP) |

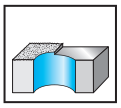
# Double-edged boring tool

## B5460 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120



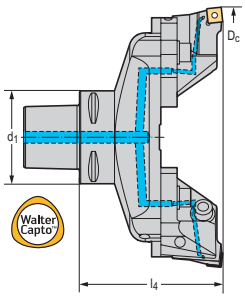


| $D_c$ 148–620 | Z=2 | κ=90° |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5460 | ●● | ●● | ●● | ●● | ●● | | |

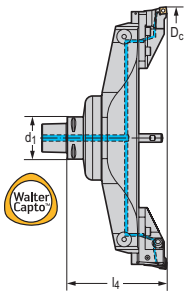
B 2

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-148-200-C8-SC12 | 5.827-7.874 | 148–200 | C8 | 4.803 | 122 |
| B5460-198-250-C8-SC12 | 7.795-9.843 | 198–250 | C8 | 4.803 | 122 |
| B5460-248-300-C8-SC12 | 9.764-11.811 | 248–300 | C8 | 4.803 | 122 |




Walter Capto™ in acc. with ISO 26623

| | | | | | |
|---|---|---|---|---|---|
| B5460-298-380-C8-SC12 | 11.732-14.961 | 298–380 | C8 | 7.047 | 179 |
| B5460-378-460-C8-SC12 | 14.882-18.110 | 378–460 | C8 | 7.244 | 184 |
| B5460-458-540-C8-SC12 | 18.031-21.260 | 458–540 | C8 | 7.441 | 189 |
| B5460-538-620-C8-SC12 | 21.181-24.409 | 538–620 | C8 | 7.441 | 189 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 43 . CC .. 1204 .. | CN .. 64 . CN .. 1906 .. | SC .. 43 . SC .. 1204 .. |
|---|---|---|---|---|
|  | Wedge set | FK398 | FK398 | FK398 |
|  | Clamping screw | FS2662 (HEX8) | FS2662 (HEX8) | FS2662 (HEX8) |
|  | Clamping screw for indexable insert | FS2658 (15IP) 27 in lbs (3 Nm) | | FS2658 (15IP) 27 in lbs (3 Nm) |
|  | Circlip | FS2663 | FS2663 | FS2663 |
|  | Shim | AP197 | AP198 | AP199 |
|  | Washer | FS2647 | FS2647 | FS2647 |
|  | Coolant screw | FS2671 | FS2671 | FS2671 |
|  | Clamping screw for shim | FS2660 | FS2661 (20IP) 57 in lbs (6.4 Nm) | FS2660 |
| | Adjustment set | FS2653 | FS2653 | FS2653 |
|  | Stud | FS2654 | FS2654 | FS2654 |
|  | Disc spring | FS2650 | FS2650 | FS2650 |
|  | RC clamp | | FS2659 | |

| | lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|---|
| | 15.44 | 7 | SC .. 43 . SC .. 1204 .. | B5120-148-000-C8-B | | EB723 | EB727.SC12 |
| | 17.86 | 8.1 | | B5120-198-000-C8-B | | EB723 | EB727.SC12 |
| | 20.29 | 9.2 | | B5120-248-000-C8-B | | EB723 | EB727.SC12 |
| | 34.18 | 15.6 | SC .. 43 . SC .. 1204 .. | B5120-298-000-C8-B | EB731 | EB724 | EB727.SC12 |
| | 38.15 | 17.3 | | B5120-298-000-C8-B | EB732 | EB724 | EB727.SC12 |
| | 42.34 | 19.2 | | B5120-298-000-C8-B | EB733 | EB724 | EB727.SC12 |
| | 47.63 | 21.6 | | B5120-298-000-C8-B | EB734 | EB724 | EB727.SC12 |

B 2

## Accessories

| | Type | CC .. 43 . – SC .. 43 . CC .. 1204 ..–SC .. 1204 .. | CN .. 64 . CN .. 1906 .. |
|---|---|---|---|
|  | ISO 2936-2,5 key | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque T-handle | FS2041 | FS2041 |
|  | Interchangeable blade | FS2047 (T15IP) | FS2048 (T20IP) |
|  | Screwdriver | FS1485 (T15IP) | FS1486 (T20IP) |

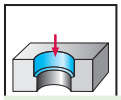
# Double-edged boring tool

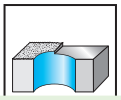
## B5460 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120

| $D_C$ 148–620 | Z=2 | κ=90° |
|---|---|---|

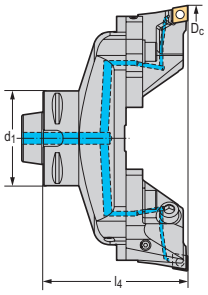




| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5460 | ●● | ●● | ●● | ●● | ●● | | |

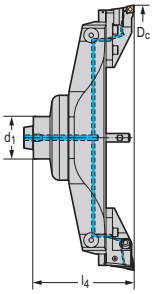


## Tool




Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-148-200-N8-CC12 | 5.827-7.874 | 148–200 | NCT 80 | 4.803 | 122 |
| B5460-198-250-N8-CC12 | 7.795-9.843 | 198–250 | NCT 80 | 4.803 | 122 |
| B5460-248-300-N8-CC12 | 9.764-11.811 | 248–300 | NCT 80 | 4.803 | 122 |




Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-298-380-N8-CC12 | 11.732-14.961 | 298–380 | NCT 80 | 7.047 | 179 |
| B5460-378-460-N8-CC12 | 14.882-18.110 | 378–460 | NCT 80 | 7.244 | 184 |
| B5460-458-540-N8-CC12 | 18.031-21.260 | 458–540 | NCT 80 | 7.441 | 189 |
| B5460-538-620-N8-CC12 | 21.181-24.409 | 538–620 | NCT 80 | 7.638 | 194 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | CC .. 43 . CC .. 1204 .. | CN .. 64 . CN .. 1906 .. | SC .. 43 . SC .. 1204 .. |
|---|---|---|---|
| Wedge set | FK398 | FK398 | FK398 |
| Clamping screw | FS2662 (HEX8) | FS2662 (HEX8) | FS2662 (HEX8) |
| Clamping screw for indexable insert | FS2658 (15IP) 27 in lbs (3 Nm) | | FS2658 (15IP) 27 in lbs (3 Nm) |
| Circlip | FS2663 | FS2663 | FS2663 |
| Shim | AP197 | AP198 | AP199 |
| Washer | FS2647 | FS2647 | FS2647 |
| Coolant screw | FS2671 | FS2671 | FS2671 |
| Clamping screw for shim | FS2660 | FS2661 (20IP) 57 in lbs (6.4 Nm) | FS2660 |
| Adjustment set | FS2653 | FS2653 | FS2653 |
| Stud | FS2654 | FS2654 | FS2654 |
| Disc spring | FS2650 | FS2650 | FS2650 |
| RC clamp | | FS2659 | |

| | lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|---|
| | 14.33 | 6.5 | CC .. 43 .<br>CC .. 1204 .. | B5120-148-000-N8-B | | EB723 | EB725.CC12 |
| | 16.98 | 7.7 | | B5120-198-000-N8-B | | EB723 | EB725.CC12 |
| | 19.18 | 8.7 | | B5120-248-000-N8-B | | EB723 | EB725.CC12 |
| | 33.08 | 15 | CC .. 43 .<br>CC .. 1204 .. | B5120-298-000-N8-B | EB731 | EB724 | EB725.CC12 |
| | 37.04 | 16.8 | | B5120-298-000-N8-B | EB732 | EB724 | EB725.CC12 |
| | 41.23 | 18.7 | | B5120-298-000-N8-B | EB733 | EB724 | EB725.CC12 |
| | 46.53 | 21.1 | | B5120-298-000-N8-B | EB734 | EB724 | EB725.CC12 |

## Accessories

| | Type | CC .. 43 .<br>CC .. 1204 .. | CN .. 64 .<br>CN .. 1906 .. | SC .. 43 .<br>SC .. 1204 .. |
|---|---|---|---|---|
|  | ISO 2936-2,5 key | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Keys | ISO2936-14 (SW 14) | | |
|  | Torque T-handle | FS2041 | FS2041 | FS2041 |
|  | Interchangeable blade | FS2047 (T15IP) | FS2048 (T20IP) | FS2047 (T15IP) |
|  | Screwdriver | FS1485 (T15IP) | FS1486 (T20IP) | FS1485 (T15IP) |

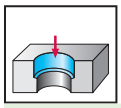
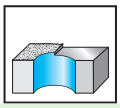
# Double-edged boring tool

## B5460 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120

| $D_C$ 148–620 | Z=2 | κ=90° |
|---|---|---|

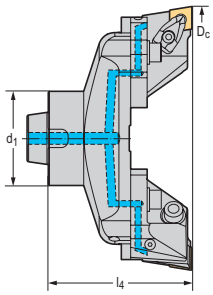



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5460 | ●● | ●● | ●● | ●● | ●● | | |



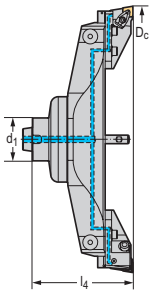
### Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-148-200-N8-CN19 | 5.827-7.874 | 148–200 | NCT 80 | 4.803 | 122 |
| B5460-198-250-N8-CN19 | 7.795-9.843 | 198–250 | NCT 80 | 4.803 | 122 |
| B5460-248-300-N8-CN19 | 9.764-11.811 | 248–300 | NCT 80 | 4.803 | 122 |




Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-298-380-N8-CN19 | 11.732-14.961 | 298–380 | NCT 80 | 7.047 | 179 |
| B5460-378-460-N8-CN19 | 14.882-18.110 | 378–460 | NCT 80 | 7.244 | 184 |
| B5460-458-540-N8-CN19 | 18.031-21.260 | 458–540 | NCT 80 | 7.441 | 189 |
| B5460-538-620-N8-CN19 | 21.181-24.409 | 538–620 | NCT 80 | 7.638 | 194 |




Modular NCT adaptor

Bodies and assembly parts are included in the scope of delivery

### Assembly parts

| Type | CC .. 43 .<br>CC .. 1204 .. | CN .. 64 .<br>CN .. 1906 .. | SC .. 43 .<br>SC .. 1204 .. |
|---|---|---|---|
| Wedge set | FK398 | FK398 | FK398 |
| Clamping screw | FS2662 (HEX8) | FS2662 (HEX8) | FS2662 (HEX8) |
| Clamping screw for indexable insert | FS2658 (15IP)<br>27 in lbs (3 Nm) | | FS2658 (15IP)<br>27 in lbs (3 Nm) |
| Circlip | FS2663 | FS2663 | FS2663 |
| Shim | AP197 | AP198 | AP199 |
| Washer | FS2647 | FS2647 | FS2647 |
| Coolant screw | FS2671 | FS2671 | FS2671 |
| Clamping screw for shim | FS2660 | FS2661 (20IP)<br>57 in lbs (6.4 Nm) | FS2660 |
| Adjustment set | FS2653 | FS2653 | FS2653 |
| Stud | FS2654 | FS2654 | FS2654 |
| Disc spring | FS2650 | FS2650 | FS2650 |
| RC clamp | | FS2659 | |

| | lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|---|
| | 14.33 | 6.5 | CN .. 64 .<br>CN .. 1906 .. | B5120-148-000-N8-B | | EB723 | EB726.CN19 |
| | 16.98 | 7.7 | | B5120-198-000-N8-B | | EB723 | EB726.CN19 |
| | 19.40 | 8.8 | | B5120-248-000-N8-B | | EB723 | EB726.CN19 |
| | 33.30 | 15.1 | CN .. 64 .<br>CN .. 1906 .. | B5120-298-000-N8-B | EB731 | EB724 | EB726.CN19 |
| | 37.04 | 16.8 | | B5120-298-000-N8-B | EB732 | EB724 | EB726.CN19 |
| | 41.45 | 18.8 | | B5120-298-000-N8-B | EB733 | EB724 | EB726.CN19 |
| | 46.75 | 21.2 | | B5120-298-000-N8-B | EB734 | EB724 | EB726.CN19 |

## Accessories

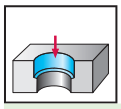
| | Type | CC .. 43 .<br>CC .. 1204 .. | CN .. 64 .<br>CN .. 1906 .. | SC .. 43 .<br>SC .. 1204 .. |
|---|---|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Keys | ISO2936-14 (SW 14) | | |
|  | Torque T-handle | FS2041 | FS2041 | FS2041 |
|  | Interchangeable blade | FS2047 (T15IP) | FS2048 (T20IP) | FS2047 (T15IP) |
|  | Screwdriver | FS1485 (T15IP) | FS1486 (T20IP) | FS1485 (T15IP) |

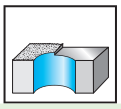
# Double-edged boring tool

## B5460 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120

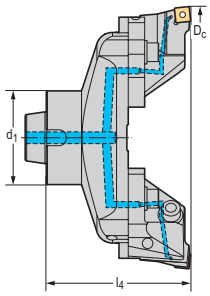




| $D_C$ 148–620 | Z=2 | κ=90° |
|---|---|---|

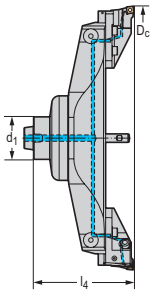
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5460 | ●● | ●● | ●● | ●● | ●● | | |

## Tool




Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-148-200-N8-SC12 | 5.827-7.874 | 148–200 | NCT 80 | 4.803 | 122 |
| B5460-198-250-N8-SC12 | 7.795-9.843 | 198–250 | NCT 80 | 4.803 | 122 |
| B5460-248-300-N8-SC12 | 9.764-11.811 | 248–300 | NCT 80 | 4.803 | 122 |

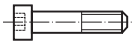
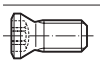



Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5460-298-380-N8-SC12 | 11.732-14.961 | 298–380 | NCT 80 | 7.047 | 179 |
| B5460-378-460-N8-SC12 | 14.882-18.110 | 378–460 | NCT 80 | 7.244 | 184 |
| B5460-458-540-N8-SC12 | 18.031-21.260 | 458–540 | NCT 80 | 7.441 | 189 |
| B5460-538-620-N8-SC12 | 21.181-24.409 | 538–620 | NCT 80 | 7.441 | 189 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 43 . CC .. 1204 .. | CN .. 64 . CN .. 1906 .. | SC .. 43 . SC .. 1204 .. |
|---|---|---|---|---|
|  | Wedge set | FK398 | FK398 | FK398 |
|  | Clamping screw | FS2662 (HEX8) | FS2662 (HEX8) | FS2662 (HEX8) |
|  | Clamping screw for indexable insert | FS2658 (15IP) 27 in lbs (3 Nm) | | FS2658 (15IP) 27 in lbs (3 Nm) |
|  | Circlip | FS2663 | FS2663 | FS2663 |
|  | Shim | AP197 | AP198 | AP199 |
|  | Washer | FS2647 | FS2647 | FS2647 |
|  | Coolant screw | FS2671 | FS2671 | FS2671 |
|  | Clamping screw for shim | FS2660 | FS2661 (20IP) 57 in lbs (6.4 Nm) | FS2660 |
| | Adjustment set | FS2653 | FS2653 | FS2653 |
|  | Stud | FS2654 | FS2654 | FS2654 |
|  | Disc spring | FS2650 | FS2650 | FS2650 |
|  | RC clamp | | FS2659 | |

| | lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|---|
| | 14.33 | 6.5 | SC .. 43 .<br>SC .. 1204 .. | B5120-148-000-N8-B | | EB723 | EB727.SC12 |
| | 16.54 | 7.5 | | B5120-198-000-N8-B | | EB723 | EB727.SC12 |
| | 19.18 | 8.7 | | B5120-248-000-N8-B | | EB723 | EB727.SC12 |
| | 33.08 | 15 | SC .. 43 .<br>SC .. 1204 .. | B5120-298-000-N8-B | EB731 | EB724 | EB727.SC12 |
| | 37.04 | 16.8 | | B5120-298-000-N8-B | EB732 | EB724 | EB727.SC12 |
| | 41.23 | 18.7 | | B5120-298-000-N8-B | EB733 | EB724 | EB727.SC12 |
| | 46.53 | 21.1 | | B5120-298-000-N8-B | EB734 | EB724 | EB727.SC12 |

## Accessories

| | Type | CC .. 43 .<br>CC .. 1204 .. | CN .. 64 .<br>CN .. 1906 .. | SC .. 43 .<br>SC .. 1204 .. |
|---|---|---|---|---|
|  | ISO 2936-2,5 key | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Keys | ISO2936-14 (SW 14) | | |
|  | Torque T-handle | FS2041 | FS2041 | FS2041 |
|  | Interchangeable blade | FS2047 (T15IP) | FS2048 (T20IP) | FS2047 (T15IP) |
|  | Screwdriver | FS1485 (T15IP) | FS1486 (T20IP) | FS1485 (T15IP) |

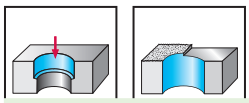
# Double-edged boring tool

## B5560 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120

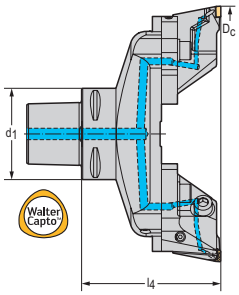
$D_C$ 148–620 | Z=2 | κ=90°



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5560 | ●● | ●● | ●● | ●● | ●● | | |

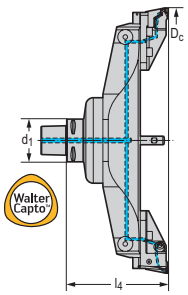
B 2

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5560-148-200-C8-P400 | 5.827-7.874 | 148–200 | C8 | 4.803 | 122 |
| B5560-198-250-C8-P400 | 7.795-9.843 | 198–250 | C8 | 4.803 | 122 |
| B5560-248-300-C8-P400 | 9.764-11.811 | 248–300 | C8 | 4.803 | 122 |

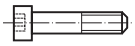



Walter Capto™ in acc. with ISO 26623

| | | | | | |
|---|---|---|---|---|---|
| B5560-298-380-C8-P400 | 11.732-14.961 | 298–380 | C8 | 7.047 | 179 |
| B5560-378-460-C8-P400 | 14.882-18.110 | 378–460 | C8 | 7.244 | 184 |
| B5560-458-540-C8-P400 | 18.031-21.260 | 458–540 | C8 | 7.441 | 189 |
| B5560-538-620-C8-P400 | 21.181-24.409 | 538–620 | C8 | 7.638 | 194 |

Bodies and assembly parts are included in the scope of delivery

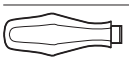
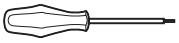
## Assembly parts

| | Type | P4160-2R .. |
|---|---|---|
|  | Wedge set | FK398 |
|  | Clamping screw | FS2662 (HEX8) |
|  | Clamping screw for indexable insert | FS2079 (T9IP)<br>18 in lbs (2 Nm) |
|  | Circlip | FS2663 |
|  | Washer | FS2647 |
|  | Coolant screw | FS2671 |
| | Adjustment set | FS2653 |
|  | Stud | FS2654 |
|  | Disc spring | FS2650 |

| lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|
| 15.44 | 7 | P4160-2R .. | B5120-148-000-C8-B | | EB723 | EB728.P400 |
| 18.08 | 8.2 | | B5120-198-000-C8-B | | EB723 | EB728.P400 |
| 20.29 | 9.2 | | B5120-248-000-C8-B | | EB723 | EB728.P400 |
| 34.18 | 15.5 | P4160-2R .. | B5120-298-000-C8-B | EB731 | EB724 | EB728.P400 |
| 38.15 | 17.3 | | B5120-298-000-C8-B | EB732 | EB724 | EB728.P400 |
| 42.34 | 19.2 | | B5120-298-000-C8-B | EB733 | EB724 | EB728.P400 |
| 47.63 | 21.6 | | B5120-298-000-C8-B | EB734 | EB724 | EB728.P400 |

B 2

## Accessories

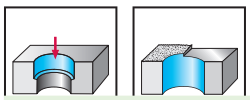
| | Type | P4160-2R .. |
|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) |
|  | Torque screwdriver. analogue | FS2003 |
|  | Torque screwdriver. digital | FS2248 |
|  | Interchangeable blade | FS2013 (T9IP) |
|  | Screwdriver | FS1484 (T9IP) |

# Double-edged boring tool

## B5560 mm inch

## Walter Boring XT

– Symmetrical, asymmetrical and axial-radial offset rough boring (ARS)
– Basic body/bridge can also be used with B5120



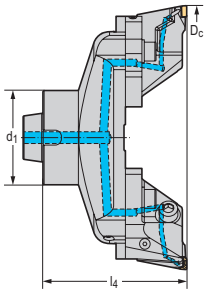
| $D_c$ 148–620 | Z=2 | κ=90° |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5560 | ●● | ●● | ●● | ●● | ●● | | |

B 2

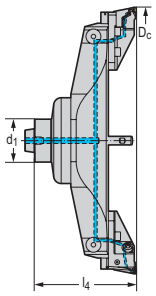
## Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5560-148-200-N8-P400 | 5.827-7.874 | 148–200 | NCT 80 | 4.803 | 122 |
| B5560-198-250-N8-P400 | 7.795-9.843 | 198–250 | NCT 80 | 4.803 | 122 |
| B5560-248-300-N8-P400 | 9.764-11.811 | 248–300 | NCT 80 | 4.803 | 122 |




Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5560-298-380-N8-P400 | 11.732-14.961 | 298–380 | NCT 80 | 7.047 | 179 |
| B5560-378-460-N8-P400 | 14.882-18.110 | 378–460 | NCT 80 | 7.244 | 184 |
| B5560-458-540-N8-P400 | 18.031-21.260 | 458–540 | NCT 80 | 7.441 | 189 |
| B5560-538-620-N8-P400 | 21.181-24.409 | 538–620 | NCT 80 | 7.638 | 194 |




Modular NCT adaptor

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | P4160-2R .. |
|---|---|
| Wedge set | FK398 |
| Clamping screw | FS2662 (HEX8) |
| Clamping screw for indexable insert | FS2079 (T9IP)<br>18 in lbs (2 Nm) |
| Circlip | FS2663 |
| Washer | FS2647 |
| Coolant screw | FS2671 |
| Adjustment set | FS2653 |
| Stud | FS2654 |
| Disc spring | FS2650 |

| | lbs | kg | Type | Basic body | Bridge | Slider | Cartridge |
|---|---|---|---|---|---|---|---|
| | 14.33 | 6.5 | P4160-2R .. | B5120-148-000-N8-B | | EB723 | EB728.P400 |
| | 16.98 | 7.7 | | B5120-198-000-N8-B | | EB723 | EB728.P400 |
| | 19.40 | 8.8 | | B5120-248-000-N8-B | | EB723 | EB728.P400 |
| | 33.08 | 15 | P4160-2R .. | B5120-298-000-N8-B | EB731 | EB724 | EB728.P400 |
| | 37.04 | 16.8 | | B5120-298-000-N8-B | EB732 | EB724 | EB728.P400 |
| | 41.23 | 18.7 | | B5120-298-000-N8-B | EB733 | EB724 | EB728.P400 |
| | 46.53 | 21.1 | | B5120-298-000-N8-B | EB734 | EB724 | EB728.P400 |

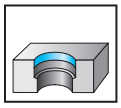
## Accessories

| | Type | P4160-2R .. |
|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) |
|  | Torque screwdriver. analogue | FS2003 |
|  | Torque screwdriver. digital | FS2248 |
|  | Interchangeable blade | FS2013 (T9IP) |
|  | Screwdriver | FS1484 (T9IP) |

# Precision boring tool

## B4035 mm

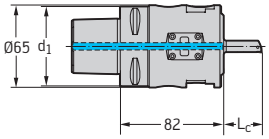
κ=93° | Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

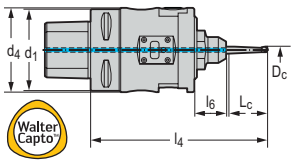


## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.C6.10-12.Z1.WC03 | 10–12 | C6 | 52 | 2 | WC .. 0302 .. |
| B4035.C6.10-17.Z1.WC03 | 10–17 | C6 | 27 | 2 | |
| B4035.C6.11-18.Z1.WC03 | 11–18 | C6 | 27 | 2 | |
| B4035.C6.12-14.Z1.WC03 | 12–14 | C6 | 62 | 2 | |
| B4035.C6.12-19.Z1.WC03 | 12–19 | C6 | 42 | 2 | |
| B4035.C6.13-20.Z1.WC03 | 13–20 | C6 | 42 | 2 | |
| B4035.C6.14-16.Z1.WC03 | 14–16 | C6 | 72 | 2 | |
| B4035.C6.14-21.Z1.WC03 | 14–21 | C6 | 47 | 2 | |
| B4035.C6.15-22.Z1.WC03 | 15–22 | C6 | 47 | 2 | |
| B4035.C6.16-18.Z1.WC03 | 16–18 | C6 | 82 | 2 | |
| B4035.C6.16-23.Z1.WC03 | 16–23 | C6 | 57 | 2 | |
| B4035.C6.17-24.Z1.WC03 | 17–24 | C6 | 57 | 2 | |
| B4035.C6.18-20.Z1.WC03 | 18–20 | C6 | 92 | 2 | |
| B4035.C6.18-25.Z1.WC03 | 18–25 | C6 | 65 | 2 | |
| B4035.C6.19-26.Z1.WC03 | 19–26 | C6 | 65 | 2 | |



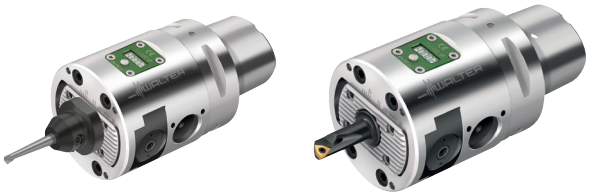

Walter Capto™ in acc. with ISO 26623

| | | | | | |
|---|---|---|---|---|---|
| B4035.C6.03-10.Z1.P15 | 3–10 | C6 | 10 | 2 | |
| B4035.C6.04-11.Z1.P15 | 4–11 | C6 | 10 | 2 | |
| B4035.C6.05-12.Z1.P15.M | 5–12 | C6 | 20 | 2 | |
| B4035.C6.05-12.Z1.P15.S | 5–12 | C6 | 10 | 2 | |
| B4035.C6.06-13.Z1.P15.M | 6–13 | C6 | 30 | 2 | |
| B4035.C6.06-13.Z1.P15.S | 6–13 | C6 | 20 | 2 | |
| B4035.C6.08-15.Z1.P15.M | 8–15 | C6 | 48 | 2 | |
| B4035.C6.08-15.Z1.P15.S | 8–15 | C6 | 23 | 2 | |

Bodies and assembly parts are included in the scope of delivery

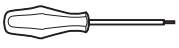
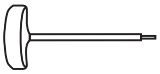
## Assembly parts

| | Type | WC .. 0302 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |



| Basic body | Intermediate adapter | Boring bar |
|---|---|---|
| B4035G.C6.002-124.Z1 | | EB637.WC03.CS |
| B4035G.C6.002-124.Z1 | | EB611.WC03 |
| B4035G.C6.002-124.Z1 | | EB612.WC03 |
| B4035G.C6.002-124.Z1 | | EB638.WC03.CS |
| B4035G.C6.002-124.Z1 | | EB613.WC03 |
| B4035G.C6.002-124.Z1 | | EB614.WC03 |
| B4035G.C6.002-124.Z1 | | EB639.WC03.CS |
| B4035G.C6.002-124.Z1 | | EB615.WC03 |
| B4035G.C6.002-124.Z1 | | EB616.WC03 |
| B4035G.C6.002-124.Z1 | | EB640.WC03.CS |
| B4035G.C6.002-124.Z1 | | EB617.WC03 |
| B4035G.C6.002-124.Z1 | | EB618.WC03 |
| B4035G.C6.002-124.Z1 | | EB641.WC03.CS |
| B4035G.C6.002-124.Z1 | | EB619.WC03 |
| B4035G.C6.002-124.Z1 | | EB620.WC03 |
| B4035G.C6.002-124.Z1 | EB601 | EB603.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB604.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB606.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB605.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB608.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB607.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB610.WXP15 |
| B4035G.C6.002-124.Z1 | EB601 | EB609.WXP15 |

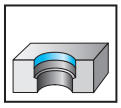
## Accessories

| | Type | WC .. 0302 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS2088 (T7IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

## B4035 mm

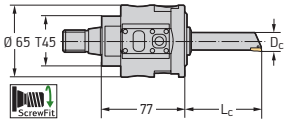
κ=93° Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

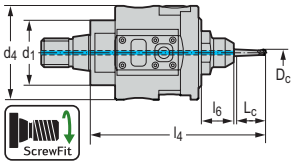
B 2

### Tool




ScrewFit

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.T45.10-12.Z1.WC03 | 10–12 | T45 | 52 | 2 | WC .. 0302 .. |
| B4035.T45.10-17.Z1.WC03 | 10–17 | T45 | 27 | 2 | |
| B4035.T45.11-18.Z1.WC03 | 11–18 | T45 | 27 | 2 | |
| B4035.T45.12-14.Z1.WC03 | 12–14 | T45 | 62 | 2 | |
| B4035.T45.12-19.Z1.WC03 | 12–19 | T45 | 42 | 2 | |
| B4035.T45.13-20.Z1.WC03 | 13–20 | T45 | 42 | 2 | |
| B4035.T45.14-16.Z1.WC03 | 14–16 | T45 | 72 | 2 | |
| B4035.T45.14-21.Z1.WC03 | 14–21 | T45 | 47 | 2 | |
| B4035.T45.15-22.Z1.WC03 | 15–22 | T45 | 47 | 2 | |
| B4035.T45.16-18.Z1.WC03 | 16–18 | T45 | 82 | 2 | |
| B4035.T45.16-23.Z1.WC03 | 16–23 | T45 | 57 | 2 | |
| B4035.T45.17-24.Z1.WC03 | 17–24 | T45 | 57 | 2 | |
| B4035.T45.18-20.Z1.WC03 | 18–20 | T45 | 92 | 2 | |
| B4035.T45.18-25.Z1.WC03 | 18–25 | T45 | 65 | 2 | |
| B4035.T45.19-26.Z1.WC03 | 19–26 | T45 | 65 | 2 | |




ScrewFit

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.T45.03-10.Z1.P15 | 3–10 | T45 | 10 | 2 | |
| B4035.T45.04-11.Z1.P15 | 4–11 | T45 | 10 | 2 | |
| B4035.T45.05-12.Z1.P15.M | 5–12 | T45 | 20 | 2 | |
| B4035.T45.05-12.Z1.P15.S | 5–12 | T45 | 10 | 2 | |
| B4035.T45.06-13.Z1.P15.M | 6–13 | T45 | 30 | 2 | |
| B4035.T45.06-13.Z1.P15.S | 6–13 | T45 | 20 | 2 | |
| B4035.T45.08-15.Z1.P15.M | 8–15 | T45 | 48 | 2 | |
| B4035.T45.08-15.Z1.P15.S | 8–15 | T45 | 23 | 2 | |

Bodies and assembly parts are included in the scope of delivery

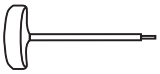
### Assembly parts

| | Type | WC .. 0302 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |



| Basic body | Intermediate adapter | Boring bar |
|---|---|---|
| B4035G.T45.002-124.Z1 | | EB637.WC03.CS |
| B4035G.T45.002-124.Z1 | | EB611.WC03 |
| B4035G.T45.002-124.Z1 | | EB612.WC03 |
| B4035G.T45.002-124.Z1 | | EB638.WC03.CS |
| B4035G.T45.002-124.Z1 | | EB613.WC03 |
| B4035G.T45.002-124.Z1 | | EB614.WC03 |
| B4035G.T45.002-124.Z1 | | EB639.WC03.CS |
| B4035G.T45.002-124.Z1 | | EB615.WC03 |
| B4035G.T45.002-124.Z1 | | EB616.WC03 |
| B4035G.T45.002-124.Z1 | | EB640.WC03.CS |
| B4035G.T45.002-124.Z1 | | EB617.WC03 |
| B4035G.T45.002-124.Z1 | | EB618.WC03 |
| B4035G.T45.002-124.Z1 | | EB641.WC03.CS |
| B4035G.T45.002-124.Z1 | | EB619.WC03 |
| B4035G.T45.002-124.Z1 | | EB620.WC03 |
| B4035G.T45.002-124.Z1 | EB601 | EB603.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB604.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB606.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB605.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB608.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB607.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB610.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB609.WXP15 |

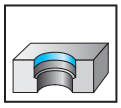
## Accessories

| | Type | WC .. 0302 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS2088 (T7IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1,5 (SW 1,5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3,5) |

# Precision boring tool

## B4035 inch

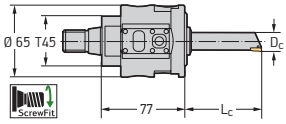
κ=93° | Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

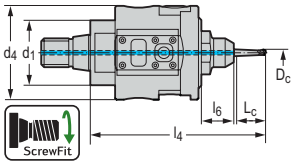
B 2

### Tool




ScrewFit

| Designation | $D_c$ inch | $d_1$ | $L_c$ inch | Type |
|---|---|---|---|---|
| B4035.UT45.10-12.Z1.WC03 | 0.394–0.472 | T45 | 2.047 | WC .. 1.8(1.5) . WC .. 0302 .. |
| B4035.UT45.10-17.Z1.WC03 | 0.394–0.669 | T45 | 1.063 | |
| B4035.UT45.11-18.Z1.WC03 | 0.433–0.709 | T45 | 1.063 | |
| B4035.UT45.12-14.Z1.WC03 | 0.472–0.551 | T45 | 2.441 | |
| B4035.UT45.12-19.Z1.WC03 | 0.472–0.748 | T45 | 1.654 | |
| B4035.UT45.13-20.Z1.WC03 | 0.512–0.787 | T45 | 1.654 | |
| B4035.UT45.14-16.Z1.WC03 | 0.551–0.630 | T45 | 2.835 | |
| B4035.UT45.14-21.Z1.WC03 | 0.551–0.827 | T45 | 1.85 | |
| B4035.UT45.15-22.Z1.WC03 | 0.591–0.866 | T45 | 1.85 | |
| B4035.UT45.16-18.Z1.WC03 | 0.630–0.709 | T45 | 3.228 | |
| B4035.UT45.16-23.Z1.WC03 | 0.630–0.906 | T45 | 2.244 | |
| B4035.UT45.17-24.Z1.WC03 | 0.669–0.945 | T45 | 2.244 | |
| B4035.UT45.18-20.Z1.WC03 | 0.709–0.787 | T45 | 3.622 | |
| B4035.UT45.18-25.Z1.WC03 | 0.709–0.984 | T45 | 2.559 | |
| B4035.UT45.19-26.Z1.WC03 | 0.748–1.024 | T45 | 2.559 | |




ScrewFit

| | | | | |
|---|---|---|---|---|
| B4035.UT45.03-10.Z1.P15 | 0.118–0.394 | T45 | 0.394 | |
| B4035.UT45.04-11.Z1.P15 | 0.157–0.433 | T45 | 0.394 | |
| B4035.UT45.05-12.Z1.P15M | 0.197–0.472 | T45 | 0.787 | |
| B4035.UT45.05-12.Z1.P15S | 0.197–0.472 | T45 | 0.394 | |
| B4035.UT45.06-13.Z1.P15M | 0.236–0.512 | T45 | 1.181 | |
| B4035.UT45.06-13.Z1.P15S | 0.236–0.512 | T45 | 0.787 | |
| B4035.UT45.08-15.Z1.P15M | 0.315–0.591 | T45 | 1.890 | |
| B4035.UT45.08-15.Z1.P15S | 0.315–0.591 | T45 | 0.906 | |

Bodies and assembly parts are included in the scope of delivery

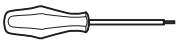
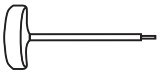
### Assembly parts

| | Type | WC .. 1.8(1.5) . WC .. 0302 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |



| Basic body | Intermediate adapter | Boring bar |
|---|---|---|
| B4035G.UT45.002-124.Z1 | | EB637.WC03.CS |
| B4035G.UT45.002-124.Z1 | | EB611.WC03 |
| B4035G.UT45.002-124.Z1 | | EB612.WC03 |
| B4035G.UT45.002-124.Z1 | | EB638.WC03.CS |
| B4035G.UT45.002-124.Z1 | | EB613.WC03 |
| B4035G.UT45.002-124.Z1 | | EB614.WC03 |
| B4035G.UT45.002-124.Z1 | | EB639.WC03.CS |
| B4035G.UT45.002-124.Z1 | | EB615.WC03 |
| B4035G.UT45.002-124.Z1 | | EB616.WC03 |
| B4035G.UT45.002-124.Z1 | | EB640.WC03.CS |
| B4035G.UT45.002-124.Z1 | | EB617.WC03 |
| B4035G.UT45.002-124.Z1 | | EB618.WC03 |
| B4035G.UT45.002-124.Z1 | | EB641.WC03.CS |
| B4035G.UT45.002-124.Z1 | | EB619.WC03 |
| B4035G.UT45.002-124.Z1 | | EB620.WC03 |
| B4035G.C6.002-124.Z1 | EB601 | EB603.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB604.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB606.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB605.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB608.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB607.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB610.WXP15 |
| B4035G.T45.002-124.Z1 | EB601 | EB609.WXP15 |

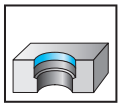
## Accessories

| | Type | WC .. 1.8(1.5) . WC .. 0302 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS2088 (T7IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

## B4035 mm

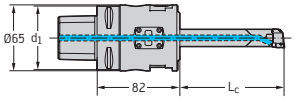
κ=93° Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.C6.20-24.Z1.WC04.M | 20–24 | C6 | 117 | 2 | WC .. 0402 .. |
| B4035.C6.20-24.Z1.WC04.S | 20–24 | C6 | 77 | 2 | |
| B4035.C6.22-26.Z1.WC04.M | 22–26 | C6 | 117 | 2 | |
| B4035.C6.22-26.Z1.WC04.S | 22–26 | C6 | 77 | 2 | |
| B4035.C6.24-28.Z1.WC04.M | 24–28 | C6 | 117 | 2 | |
| B4035.C6.24-28.Z1.WC04.S | 24–28 | C6 | 77 | 2 | |
| B4035.C6.26-30.Z1.WC04.M | 26–30 | C6 | 117 | 2 | |
| B4035.C6.26-30.Z1.WC04.S | 26–30 | C6 | 77 | 2 | |
| B4035.C6.28-32.Z1.WC04.M | 28–32 | C6 | 117 | 2 | |
| B4035.C6.28-32.Z1.WC04.S | 28–32 | C6 | 77 | 2 | |
| B4035.C6.30-34.Z1.WC04.M | 30–34 | C6 | 117 | 2 | |
| B4035.C6.30-34.Z1.WC04.S | 30–34 | C6 | 77 | 2 | |
| B4035.C6.32-41.Z1.WC04 | 32–41 | C6 | 63 | 2 | |
| B4035.C6.41-50.Z1.WC04 | 41–50 | C6 | 99 | 2 | |
| B4035.C6.50-59.Z1.WC04 | 50–59 | C6 | 72 | 2 | |
| B4035.C6.59-68.Z1.WC04 | 59–68 | C6 | 117 | 2 | |

Bodies and assembly parts are included in the scope of delivery

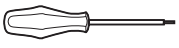
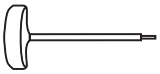
## Assembly parts

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |

| | Basic body | Extension | Cartridge |
|---|---|---|---|
| | B4035G.C6.002-124.Z1 | EB643.CS | EB644.WC04 |
| | B4035G.C6.002-124.Z1 | EB642 | EB644.WC04 |
| | B4035G.C6.002-124.Z1 | EB643.CS | EB645.WC04 |
| | B4035G.C6.002-124.Z1 | EB642 | EB645.WC04 |
| | B4035G.C6.002-124.Z1 | EB643.CS | EB621.WC04 |
| | B4035G.C6.002-124.Z1 | EB642 | EB621.WC04 |
| | B4035G.C6.002-124.Z1 | EB643.CS | EB622.WC04 |
| | B4035G.C6.002-124.Z1 | EB642 | EB622.WC04 |
| | B4035G.C6.002-124.Z1 | EB643.CS | EB623.WC04 |
| | B4035G.C6.002-124.Z1 | EB642 | EB623.WC04 |
| | B4035G.C6.002-124.Z1 | EB643.CS | EB624.WC04 |
| | B4035G.C6.002-124.Z1 | EB642 | EB624.WC04 |
| | B4035G.C6.002-124.Z1 | EB625 | EB629.WC04 |
| | B4035G.C6.002-124.Z1 | EB626 | EB630.WC04 |
| | B4035G.C6.002-124.Z1 | EB627 | EB629.WC04 |
| | B4035G.C6.002-124.Z1 | EB628 | EB630.WC04 |



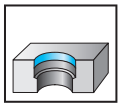
## Accessories

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

## B4035 mm

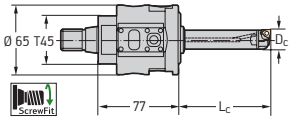
κ=93° Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool




ScrewFit

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.T45.20-24.Z1.WC04M | 20–24 | T45 | 117 | 2 | WC .. 0402 .. |
| B4035.T45.20-24.Z1.WC04S | 20–24 | T45 | 77 | 2 | |
| B4035.T45.22-26.Z1.WC04M | 22–26 | T45 | 117 | 2 | |
| B4035.T45.22-26.Z1.WC04S | 22–26 | T45 | 77 | 2 | |
| B4035.T45.24-28.Z1.WC04M | 24–28 | T45 | 117 | 2 | |
| B4035.T45.24-28.Z1.WC04S | 24–28 | T45 | 77 | 2 | |
| B4035.T45.26-30.Z1.WC04M | 26–30 | T45 | 117 | 2 | |
| B4035.T45.26-30.Z1.WC04S | 26–30 | T45 | 77 | 2 | |
| B4035.T45.28-32.Z1.WC04M | 28–32 | T45 | 117 | 2 | |
| B4035.T45.28-32.Z1.WC04S | 28–32 | T45 | 77 | 2 | |
| B4035.T45.30-34.Z1.WC04M | 30–34 | T45 | 117 | 2 | |
| B4035.T45.30-34.Z1.WC04S | 30–34 | T45 | 77 | 2 | |
| B4035.T45.32-41.Z1.WC04 | 32–41 | T45 | 63 | 2 | |
| B4035.T45.41-50.Z1.WC04 | 41–50 | T45 | 99 | 2 | |
| B4035.T45.50-59.Z1.WC04 | 50–59 | T45 | 72 | 2 | |
| B4035.T45.59-68.Z1.WC04 | 59–68 | T45 | 117 | 2 | |

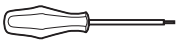
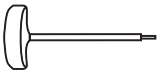
Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |

| | Basic body | Extension | Cartridge |
|---|---|---|---|
| | B4035G.T45.002-124.Z1 | EB643.CS | EB644.WC04 |
| | B4035G.T45.002-124.Z1 | EB642 | EB644.WC04 |
| | B4035G.T45.002-124.Z1 | EB643.CS | EB645.WC04 |
| | B4035G.T45.002-124.Z1 | EB642 | EB645.WC04 |
| | B4035G.T45.002-124.Z1 | EB643.CS | EB621.WC04 |
| | B4035G.T45.002-124.Z1 | EB642 | EB621.WC04 |
| | B4035G.T45.002-124.Z1 | EB643.CS | EB622.WC04 |
| | B4035G.T45.002-124.Z1 | EB642 | EB622.WC04 |
| | B4035G.T45.002-124.Z1 | EB643.CS | EB623.WC04 |
| | B4035G.T45.002-124.Z1 | EB642 | EB623.WC04 |
| | B4035G.T45.002-124.Z1 | EB643.CS | EB624.WC04 |
| | B4035G.T45.002-124.Z1 | EB642 | EB624.WC04 |
| | B4035G.T45.002-124.Z1 | EB625 | EB629.WC04 |
| | B4035G.T45.002-124.Z1 | EB626 | EB630.WC04 |
| | B4035G.T45.002-124.Z1 | EB627 | EB629.WC04 |
| | B4035G.T45.002-124.Z1 | EB628 | EB630.WC04 |

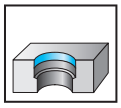
## Accessories

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

## B4035 inch

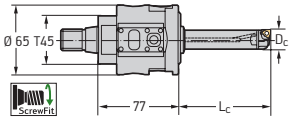
κ=93° | Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |



### Tool




ScrewFit

| Designation | $D_c$ inch | $d_1$ | $L_c$ inch | Type |
|---|---|---|---|---|
| B4035.UT45.20-24.Z1WC04M | 0.787–0.945 | T45 | 4.606 | WC .. 2(1.5) . WC .. 0402 .. |
| B4035.UT45.20-24.Z1WC04S | 0.787–0.945 | T45 | 3.031 | |
| B4035.UT45.22-26.Z1WC04M | 0.866–1.024 | T45 | 4.606 | |
| B4035.UT45.22-26.Z1WC04S | 0.866–1.024 | T45 | 3.031 | |
| B4035.UT45.24-28.Z1WC04M | 0.945–1.102 | T45 | 4.606 | |
| B4035.UT45.24-28.Z1WC04S | 0.945–1.102 | T45 | 3.031 | |
| B4035.UT45.26-30.Z1WC04M | 1.024–1.181 | T45 | 4.606 | |
| B4035.UT45.26-30.Z1WC04S | 1.024–1.181 | T45 | 3.031 | |
| B4035.UT45.28-32.Z1WC04M | 1.102–1.260 | T45 | 4.606 | |
| B4035.UT45.28-32.Z1WC04S | 1.102–1.260 | T45 | 3.031 | |
| B4035.UT45.30-34.Z1WC04M | 1.181–1.339 | T45 | 4.606 | |
| B4035.UT45.30-34.Z1WC04S | 1.181–1.339 | T45 | 3.031 | |
| B4035.UT45.32-41.Z1.WC04 | 1.260–1.614 | T45 | 2.48 | |
| B4035.UT45.41-50.Z1.WC04 | 1.614–1.969 | T45 | 3.898 | |
| B4035.UT45.50-59.Z1.WC04 | 1.969–2.323 | T45 | 2.835 | |
| B4035.UT45.59-68.Z1.WC04 | 2.323–2.677 | T45 | 4.606 | |

Bodies and assembly parts are included in the scope of delivery

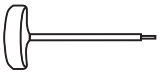
### Assembly parts

| | Type | WC .. 2(1.5) . WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |

| | Basic body | Extension | Cartridge |
|---|---|---|---|
| | B4035G.UT45.002-124.Z1 | EB643.CS | EB644.WC04 |
| | B4035G.UT45.002-124.Z1 | EB642 | EB644.WC04 |
| | B4035G.UT45.002-124.Z1 | EB643.CS | EB645.WC04 |
| | B4035G.UT45.002-124.Z1 | EB642 | EB645.WC04 |
| | B4035G.UT45.002-124.Z1 | EB643.CS | EB621.WC04 |
| | B4035G.UT45.002-124.Z1 | EB642 | EB621.WC04 |
| | B4035G.UT45.002-124.Z1 | EB643.CS | EB622.WC04 |
| | B4035G.UT45.002-124.Z1 | EB642 | EB622.WC04 |
| | B4035G.UT45.002-124.Z1 | EB643.CS | EB623.WC04 |
| | B4035G.UT45.002-124.Z1 | EB642 | EB623.WC04 |
| | B4035G.UT45.002-124.Z1 | EB643.CS | EB624.WC04 |
| | B4035G.UT45.002-124.Z1 | EB642 | EB624.WC04 |
| | B4035G.UT45.002-124.Z1 | EB625 | EB629.WC04 |
| | B4035G.UT45.002-124.Z1 | EB626 | EB630.WC04 |
| | B4035G.UT45.002-124.Z1 | EB627 | EB629.WC04 |
| | B4035G.UT45.002-124.Z1 | EB628 | EB630.WC04 |



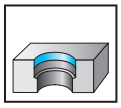
## Accessories

| | Type | WC .. 2(1.5) .<br>WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

## B4035 mm

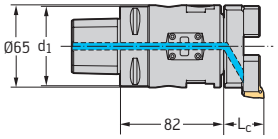
κ=93° Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.C6.68-96.Z1.WC04 | 68–96 | C6 | | 2 | WC .. 0402 .. |
| B4035.C6.96-124.Z1.WC04 | 96–124 | C6 | | 2 | |

Bodies and assembly parts are included in the scope of delivery

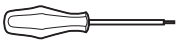
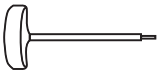
## Assembly parts

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |

| Basic body | Bridge | Counterweight | Cartridge |
|---|---|---|---|
| B4035G.C6.002-124.Z1 | EB631 | EB635 | EB634.WC04 |
| B4035G.C6.002-124.Z1 | EB632 | EB635 | EB634.WC04 |



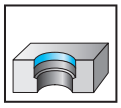
## Accessories

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | Coolant transfer for bridge | EB636 |

# Precision boring tool

## B4035 mm

κ=93° Z=1

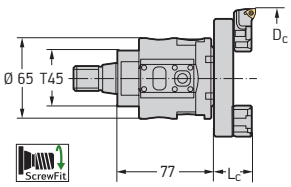


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

| Designation | $D_c$ mm | $d_1$ | $L_c$ mm | kg | Type |
|---|---|---|---|---|---|
| B4035.T45.68-96.Z1.WC04 | 68–96 | T45 | | 2 | WC .. 0402 .. |
| B4035.T45.96-124.Z1.WC04 | 96–124 | T45 | | 2 | |

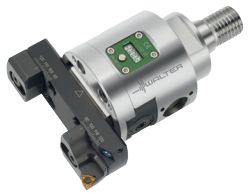



ScrewFit

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

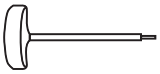
| | Type | WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |



| Basic body | Bridge | Counterweight | Cartridge |
|---|---|---|---|
| B4035G.T45.002-124.Z1 | EB631 | EB635 | EB634.WC04 |
| B4035G.T45.002-124.Z1 | EB632 | EB635 | EB634.WC04 |



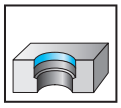
## Accessories

| | Type | WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | Coolant transfer for bridge | EB636 |

# Precision boring tool

## B4035 inch

κ=93° | Z=1

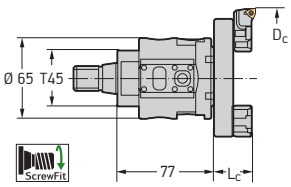


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

### Tool

| Designation | $D_c$ inch | $d_1$ | $L_c$ inch | Type |
|---|---|---|---|---|
| B4035.UT45.68-96.Z1.WC04 | 2.677–3.780 | T45 | | WC .. 2(1.5) .<br>WC .. 0402 .. |
| B4035.UT45.96-124.Z1WC04 | 3.780–4.882 | T45 | | |

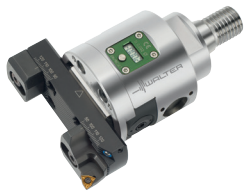



ScrewFit

Bodies and assembly parts are included in the scope of delivery

### Assembly parts

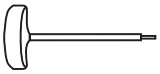
| Type | WC .. 2(1.5) .<br>WC .. 0402 .. |
|---|---|
| Fastening screw | FS2101 |
| Threaded plug | FS2102 |
| Battery | FS2122 |
| Battery compartment gasket | FS2121 |
| Battery compartment lid | FS2123 |



| | Basic body | Bridge | Counterweight | Cartridge |
|---|---|---|---|---|
| | B4035G.UT45.002-124.Z1 | EB631 | EB635 | EB634.WC04 |
| | B4035G.UT45.002-124.Z1 | EB632 | EB635 | EB634.WC04 |



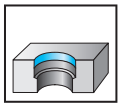
## Accessories

| | Type | WC .. 2(1.5) .<br>WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | Coolant transfer for bridge | EB636 |

# Precision boring tool

## B4035 inch

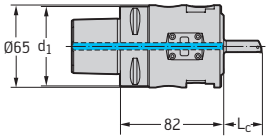
κ=93° | Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

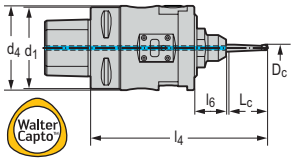


## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ inch | $d_1$ | $L_c$ inch | Type |
|---|---|---|---|---|
| B4035.UC6.10-12.Z1.WC03 | 0.394–0.472 | C6 | 2.047 | WC .. 1.8(1.5) . WC .. 0302 .. |
| B4035.UC6.10-17.Z1.WC03 | 0.394–0.669 | C6 | 1.063 | |
| B4035.UC6.11-18.Z1.WC03 | 0.433–0.709 | C6 | 1.063 | |
| B4035.UC6.12-14.Z1.WC03 | 0.472–0.551 | C6 | 2.441 | |
| B4035.UC6.12-19.Z1.WC03 | 0.472–0.748 | C6 | 1.654 | |
| B4035.UC6.13-20.Z1.WC03 | 0.512–0.787 | C6 | 1.654 | |
| B4035.UC6.14-16.Z1.WC03 | 0.551–0.630 | C6 | 2.835 | |
| B4035.UC6.14-21.Z1.WC03 | 0.551–0.827 | C6 | 1.85 | |
| B4035.UC6.15-22.Z1.WC03 | 0.591–0.866 | C6 | 1.85 | |
| B4035.UC6.16-18.Z1.WC03 | 0.630–0.709 | C6 | 3.228 | |
| B4035.UC6.16-23.Z1.WC03 | 0.630–0.906 | C6 | 2.244 | |
| B4035.UC6.17-24.Z1.WC03 | 0.669–0.945 | C6 | 2.244 | |
| B4035.UC6.18-20.Z1.WC03 | 0.709–0.787 | C6 | 3.622 | |
| B4035.UC6.18-25.Z1.WC03 | 0.709–0.984 | C6 | 2.559 | |
| B4035.UC6.19-26.Z1.WC03 | 0.748–1.024 | C6 | 2.559 | |



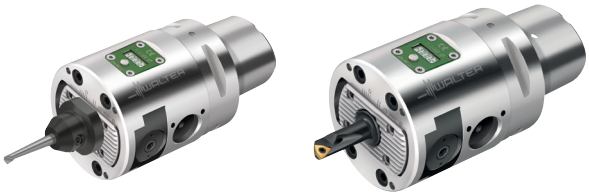

Walter Capto™ in acc. with ISO 26623

| | | | | |
|---|---|---|---|---|
| B4035.UC6.03-10.Z1.P15 | 0.118–0.394 | C6 | 0.394 | |
| B4035.UC6.04-11.Z1.P15 | 0.157–0.433 | C6 | 0.394 | |
| B4035.UC6.05-12.Z1.P15.M | 0.197–0.472 | C6 | 0.787 | |
| B4035.UC6.05-12.Z1.P15.S | 0.197–0.472 | C6 | 0.394 | |
| B4035.UC6.06-13.Z1.P15.M | 0.236–0.512 | C6 | 1.181 | |
| B4035.UC6.06-13.Z1.P15.S | 0.236–0.512 | C6 | 0.787 | |
| B4035.UC6.08-15.Z1.P15.M | 0.315–0.591 | C6 | 1.890 | |
| B4035.UC6.08-15.Z1.P15.S | 0.315–0.591 | C6 | 0.906 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

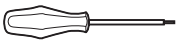
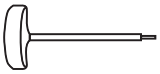
| | Type | WC .. 1.8(1.5) . WC .. 0302 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |





| | Basic body | Intermediate adapter | Boring bar |
|---|---|---|---|
| | B4035G.UC6.002-124.Z1 | | EB637.WC03.CS |
| | B4035G.UC6.002-124.Z1 | | EB611.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB612.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB638.WC03.CS |
| | B4035G.UC6.002-124.Z1 | | EB613.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB614.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB639.WC03.CS |
| | B4035G.UC6.002-124.Z1 | | EB615.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB616.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB640.WC03.CS |
| | B4035G.UC6.002-124.Z1 | | EB617.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB618.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB641.WC03.CS |
| | B4035G.UC6.002-124.Z1 | | EB619.WC03 |
| | B4035G.UC6.002-124.Z1 | | EB620.WC03 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB603.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB604.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB606.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB605.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB608.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB607.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB610.WXP15 |
| | B4035G.UC6.002-124.Z1 | EB601 | EB609.WXP15 |

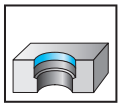
## Accessories

| | Type | WC .. 1.8(1.5) . WC .. 0302 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS2088 (T7IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

## B4035 inch

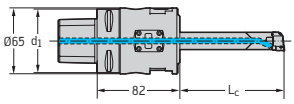
κ=93° | Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |



## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ inch | $d_1$ | $L_c$ inch | Type |
|---|---|---|---|---|
| B4035.UC6.20-24.Z1.WC04M | 0.787–0.945 | C6 | 4.606 | WC .. 2(1.5) . WC .. 0402 .. |
| B4035.UC6.20-24.Z1.WC04S | 0.787–0.945 | C6 | 3.031 | |
| B4035.UC6.22-26.Z1.WC04M | 0.866–1.024 | C6 | 4.606 | |
| B4035.UC6.22-26.Z1.WC04S | 0.866–1.024 | C6 | 3.031 | |
| B4035.UC6.24-28.Z1.WC04M | 0.945–1.102 | C6 | 4.606 | |
| B4035.UC6.24-28.Z1.WC04S | 0.945–1.102 | C6 | 3.031 | |
| B4035.UC6.26-30.Z1.WC04M | 1.024–1.181 | C6 | 4.606 | |
| B4035.UC6.26-30.Z1.WC04S | 1.024–1.181 | C6 | 3.031 | |
| B4035.UC6.28-32.Z1.WC04M | 1.102–1.260 | C6 | 4.606 | |
| B4035.UC6.28-32.Z1.WC04S | 1.102–1.260 | C6 | 3.031 | |
| B4035.UC6.30-34.Z1.WC04M | 1.181–1.339 | C6 | 4.606 | |
| B4035.UC6.30-34.Z1.WC04S | 1.181–1.339 | C6 | 3.031 | |
| B4035.UC6.32-41.Z1.WC04 | 1.260–1.614 | C6 | 2.48 | |
| B4035.UC6.41-50.Z1.WC04 | 1.614–1.969 | C6 | 3.898 | |
| B4035.UC6.50-59.Z1.WC04 | 1.969–2.323 | C6 | 2.835 | |
| B4035.UC6.59-68.Z1.WC04 | 2.323–2.677 | C6 | 4.606 | |

Bodies and assembly parts are included in the scope of delivery

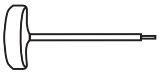
## Assembly parts

| | Type | WC .. 2(1.5) .. WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |

| | Basic body | Extension | Cartridge |
|---|---|---|---|
| | B4035G.UC6.002-124.Z1 | EB643.CS | EB644.WC04 |
| | B4035G.UC6.002-124.Z1 | EB642 | EB644.WC04 |
| | B4035G.UC6.002-124.Z1 | EB643.CS | EB645.WC04 |
| | B4035G.UC6.002-124.Z1 | EB642 | EB645.WC04 |
| | B4035G.UC6.002-124.Z1 | EB643.CS | EB621.WC04 |
| | B4035G.UC6.002-124.Z1 | EB642 | EB621.WC04 |
| | B4035G.UC6.002-124.Z1 | EB643.CS | EB622.WC04 |
| | B4035G.UC6.002-124.Z1 | EB642 | EB622.WC04 |
| | B4035G.UC6.002-124.Z1 | EB643.CS | EB623.WC04 |
| | B4035G.UC6.002-124.Z1 | EB642 | EB623.WC04 |
| | B4035G.UC6.002-124.Z1 | EB643.CS | EB624.WC04 |
| | B4035G.UC6.002-124.Z1 | EB642 | EB624.WC04 |
| | B4035G.UC6.002-124.Z1 | EB625 | EB629.WC04 |
| | B4035G.UC6.002-124.Z1 | EB626 | EB630.WC04 |
| | B4035G.UC6.002-124.Z1 | EB627 | EB629.WC04 |
| | B4035G.UC6.002-124.Z1 | EB628 | EB630.WC04 |



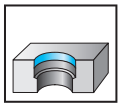
## Accessories

| | Type | WC .. 2(1.5) .<br>WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |

# Precision boring tool

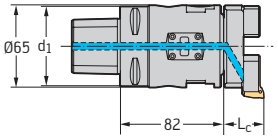
## B4035 inch

κ=93° | Z=1



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B4035 | ●● | ●● | ●● | ●● | ●● | ● | ● |

### Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ inch | $d_1$ | $L_c$ inch | Type |
|---|---|---|---|---|
| B4035.UC6.68-96.Z1.WC04 | 2.677–3.780 | C6 | | WC .. 2(1.5) . WC .. 0402 .. |
| B4035.UC6.96-124.Z1.WC04 | 3.780–4.882 | C6 | | |

Bodies and assembly parts are included in the scope of delivery

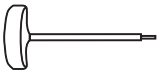
### Assembly parts

| | Type | WC .. 2(1.5) . WC .. 0402 .. |
|---|---|---|
|  | Fastening screw | FS2101 |
|  | Threaded plug | FS2102 |
| | Battery | FS2122 |
| | Battery compartment gasket | FS2121 |
| | Battery compartment lid | FS2123 |

| | Basic body | Bridge | Counterweight | Cartridge |
|---|---|---|---|---|
| | B4035G.UC6.002-124.Z1 | EB631 | EB635 | EB634.WC04 |
| | B4035G.UC6.002-124.Z1 | EB632 | EB635 | EB634.WC04 |



## Accessories

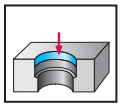
| | Type | WC .. 2(1.5) .<br>WC .. 0402 .. |
|---|---|---|
|  | Screwdriver for indexable insert | FS1483 (T8IP) |
|  | Screwdriver for adjustment | FS1174 (T25) |
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) |
|  | Coolant transfer for bridge | EB636 |

# Precision boring tool

## B5110 mm inch

## Walter Precision XT

| $D_c$ 1–20 | κ=92° | Z=1 |
|---|---|---|

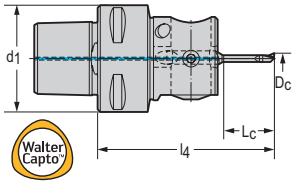


| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5110 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

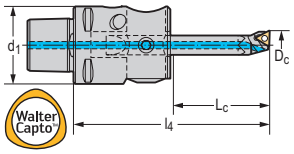
### Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $L_c$ in | $L_c$ mm |
|---|---|---|---|---|---|
| B5110-001-003-C3-CS | 0.039-0.118 | 1–3 | C3 | 0.236 | 6 |
| B5110-0017-0037-C3-CS | 0.067-0.146 | 1.7–3.7 | C3 | 0.354 | 9 |
| B5110-0022-0042-C3-CS | 0.087-0.165 | 2.2–4.2 | C3 | 0.512 | 13 |
| B5110-0027-0047-C3-CS | 0.106-0.185 | 2.7–4.7 | C3 | 0.591 | 15 |
| B5110-0032-0052-C3-CS | 0.126-0.205 | 3.2–5.2 | C3 | 0.787 | 20 |
| B5110-0042-0062-C3-CS | 0.165-0.244 | 4.2–6.2 | C3 | 0.787 | 20 |
| B5110-0062-0082-C3-CS | 0.244-0.323 | 6.2–8.2 | C3 | 1.181 | 30 |



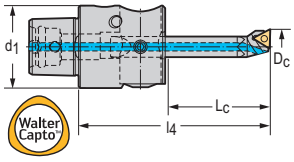

Walter Capto™ in acc. with ISO 26623

| | | | | | |
|---|---|---|---|---|---|
| B5110-008-010-C3-TC06 | 0.315-0.394 | 8–10 | C3 | 1.181 | 30 |
| B5110-010-012-C3-TC06 | 0.394-0.472 | 10–12 | C3 | 1.575 | 40 |
| B5110-012-014-C3-TC06 | 0.472-0.551 | 12–14 | C3 | 1.575 | 40 |




Walter Capto™ in acc. with ISO 26623

| | | | | | |
|---|---|---|---|---|---|
| B5110-014-017-C4-TC09 | 0.551-0.669 | 14–17 | C4 | 1.969 | 50 |
| B5110-017-020-C4-TC09 | 0.669-0.787 | 17–20 | C4 | 1.969 | 50 |




Walter Capto™ in acc. with ISO 26623

Bodies and assembly parts are included in the scope of delivery

### Assembly parts

| | Type | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. |
|---|---|---|---|
|  | Clamping screw | FS2623 | FS2625 |
|  | Clamping screw for indexable insert | FS2626 (6IP) 5 in lbs (0.6 Nm) | FS2627 (7IP) 7 in lbs (0.8 Nm) |

| $l_4$ in | $l_4$ mm | lbs | kg | Type | Basic body | Boring bar |
|---|---|---|---|---|---|---|
| 1.890 | 48 | 0.44 | 0.2 | | B5110-001-006-C3-B | EB701.WKP21 |
| 1.890 | 48 | 0.44 | 0.2 | | B5110-001-006-C3-B | EB702.WKP21 |
| 2.087 | 53 | 0.44 | 0.2 | | B5110-001-006-C3-B | EB703.WKP21 |
| 2.087 | 53 | 0.44 | 0.2 | | B5110-001-006-C3-B | EB704.WKP21 |
| 2.283 | 58 | 0.44 | 0.2 | | B5110-001-006-C3-B | EB705.WKP21 |
| 2.283 | 58 | 1.32 | 0.6 | | B5110-001-006-C3-B | EB706.WKP21 |
| 2.677 | 68 | 0.44 | 0.2 | | B5110-006-010-C3-B | EB707.WKP21 |
| 2.638 | 67 | 0.44 | 0.2 | TC .. 1.2(1.2) . TC .. 06T1 .. | B5110-006-010-C3-B | EB708.TC06 |
| 3.189 | 81 | 0.66 | 0.3 | | B5110-010-014-C3-B | EB709.TC06 |
| 3.189 | 81 | 0.66 | 0.3 | | B5110-010-014-C3-B | EB710.TC06 |
| 3.661 | 93 | 1.10 | 0.5 | TC .. 1.8(1.5) . TC .. 0902 .. | B5110-014-020-C4-B | EB711.TC09 |
| 3.661 | 93 | 1.10 | 0.5 | | B5110-014-020-C4-B | EB712.TC09 |

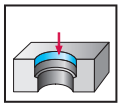
## Accessories

| | Type | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. |
|---|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) | |
|  | ISO 2936-3 key | | ISO2936-3 (SW 3.5) |
|  | Torque screwdriver. analog | FS2001 | FS2001 |
|  | Interchangeable blade | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2086 (T6IP) | FS2088 (T7IP) |

# Precision boring tool

## B5110 mm inch

## Walter Precision XT

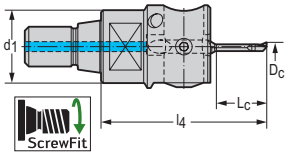
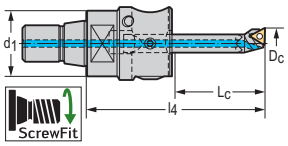
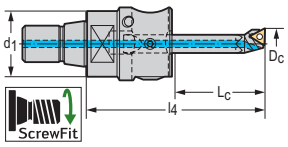


| $D_c$ 1–20 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5110 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $L_c$ in | $L_c$ mm |
|---|---|---|---|---|---|---|
|  ScrewFit | B5110-001-003-T22-CS | 0.039-0.118 | 1–3 | T22 | 0.236 | 6 |
| | B5110-0017-0037-T22-CS | 0.067-0.146 | 1.7–3.7 | T22 | 0.354 | 9 |
| | B5110-0022-0042-T22-CS | 0.087-0.165 | 2.2–4.2 | T22 | 0.512 | 13 |
| | B5110-0027-0047-T22-CS | 0.106-0.185 | 2.7–4.7 | T22 | 0.591 | 15 |
| | B5110-0032-0052-T22-CS | 0.126-0.205 | 3.2–5.2 | T22 | 0.787 | 20 |
| | B5110-0042-0062-T22-CS | 0.165-0.244 | 4.2–6.2 | T22 | 0.787 | 20 |
| | B5110-0062-0082-T22-CS | 0.244-0.323 | 6.2–8.2 | T22 | 1.181 | 30 |
|  ScrewFit | B5110-008-010-T22-TC06 | 0.315-0.394 | 8–10 | T22 | 1.181 | 30 |
| | B5110-010-012-T28-TC06 | 0.394-0.472 | 10–12 | T28 | 1.575 | 40 |
| | B5110-012-014-T28-TC06 | 0.472-0.551 | 12–14 | T28 | 1.575 | 40 |
|  ScrewFit | B5110-014-017-T36-TC09 | 0.551-0.669 | 14–17 | T36 | 1.969 | 50 |
| | B5110-017-020-T36-TC09 | 0.669-0.787 | 17–20 | T36 | 1.969 | 50 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. |
|---|---|---|---|
|  | Clamping screw | FS2623 | FS2625 |
|  | Clamping screw for indexable insert | FS2626 (6IP) 5 in lbs (0.6 Nm) | FS2627 (7IP) 7 in lbs (0.8 Nm) |



| $l_4$ in | $l_4$ mm | lbs | kg | Type | Basic body | Boring bar |
|---|---|---|---|---|---|---|
| 1.772 | 45 | 0.22 | 0.1 | | B5110-001-006-T22-B | EB701.WKP21 |
| 1.772 | 45 | 0.22 | 0.1 | | B5110-001-006-T22-B | EB702.WKP21 |
| 1.969 | 50 | 0.22 | 0.1 | | B5110-001-006-T22-B | EB703.WKP21 |
| 1.969 | 50 | 0.22 | 0.1 | | B5110-001-006-T22-B | EB704.WKP21 |
| 2.165 | 55 | 0.22 | 0.1 | | B5110-001-006-T22-B | EB705.WKP21 |
| 2.165 | 55 | 0.22 | 0.1 | | B5110-001-006-T22-B | EB706.WKP21 |
| 2.756 | 70 | 0.44 | 0.2 | | B5110-006-010-T22-B | EB707.WKP21 |
| 2.717 | 69 | 0.44 | 0.2 | TC .. 1.2(1.2) . TC .. 06T1 .. | B5110-006-010-T22-B | EB708.TC06 |
| 3.386 | 86 | 0.66 | 0.3 | | B5110-010-014-T28-B | EB709.TC06 |
| 3.386 | 86 | 0.66 | 0.3 | | B5110-010-014-T28-B | EB710.TC06 |
| 3.858 | 98 | 1.32 | 0.6 | TC .. 1.8(1.5) . TC .. 0902 .. | B5110-014-020-T36-B | EB711.TC09 |
| 3.858 | 98 | 1.32 | 0.6 | | B5110-014-020-T36-B | EB712.TC09 |

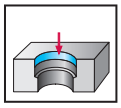
## Accessories

| | Type | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. |
|---|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) | |
|  | ISO 2936-3 key | | ISO2936-3 (SW 3.5) |
|  | Torque screwdriver, analog | FS2001 | FS2001 |
|  | Interchangeable blade | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2086 (T6IP) | FS2088 (T7IP) |

# Precision boring tool

## B5110 mm inch

## Walter Precision XT

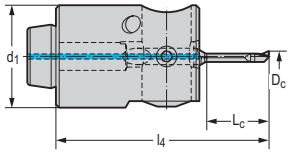
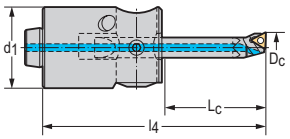
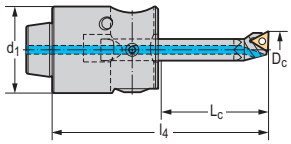


| $D_c$ 1–20 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5110 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $L_c$ in | $L_c$ mm |
|---|---|---|---|---|---|---|
|  Modular NCT adaptor | B5110-001-003-N2-CS | 0.039-0.118 | 1–3 | NCT 25 | 0.236 | 6 |
| | B5110-0017-0037-N2-CS | 0.067-0.146 | 1.7–3.7 | NCT 25 | 0.354 | 9 |
| | B5110-0022-0042-N2-CS | 0.087-0.165 | 2.2–4.2 | NCT 25 | 0.512 | 13 |
| | B5110-0027-0047-N2-CS | 0.106-0.185 | 2.7–4.7 | NCT 25 | 0.591 | 15 |
| | B5110-0032-0052-N2-CS | 0.126-0.205 | 3.2–5.2 | NCT 25 | 0.787 | 20 |
| | B5110-0042-0062-N2-CS | 0.165-0.244 | 4.2–6.2 | NCT 25 | 0.787 | 20 |
| | B5110-0062-0082-N2-CS | 0.244-0.323 | 6.2–8.2 | NCT 25 | 1.181 | 30 |
|  Modular NCT adaptor | B5110-008-010-N2-TC06 | 0.315-0.394 | 8–10 | NCT 25 | 1.181 | 30 |
| | B5110-010-012-N3-TC06 | 0.394-0.472 | 10–12 | NCT 32 | 1.575 | 40 |
| | B5110-012-014-N3-TC06 | 0.472-0.551 | 12–14 | NCT 32 | 1.575 | 40 |
|  Modular NCT adaptor | B5110-014-017-N4-TC09 | 0.551-0.669 | 14–17 | NCT 40 | 1.969 | 50 |
| | B5110-017-020-N4-TC09 | 0.669-0.787 | 17–20 | NCT 40 | 1.969 | 50 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. |
|---|---|---|---|
|  | Clamping screw | FS2623 | FS2625 |
|  | Clamping screw for indexable insert | FS2626 (6IP) 5 in lbs (0.6 Nm) | FS2627 (7IP) 7 in lbs (0.8 Nm) |

| $l_4$ in | $l_4$ mm | lbs | kg | Type | Basic body | Boring bar |
|---|---|---|---|---|---|---|
| 1.850 | 47 | 0.22 | 0.1 | | B5110-001-006-N2-B | EB701.WKP21 |
| 1.850 | 47 | 0.22 | 0.1 | | B5110-001-006-N2-B | EB702.WKP21 |
| 2.047 | 52 | 0.22 | 0.1 | | B5110-001-006-N2-B | EB703.WKP21 |
| 2.047 | 52 | 0.22 | 0.1 | | B5110-001-006-N2-B | EB704.WKP21 |
| 2.244 | 57 | 0.22 | 0.1 | | B5110-001-006-N2-B | EB705.WKP21 |
| 2.244 | 57 | 0.22 | 0.1 | | B5110-001-006-N2-B | EB706.WKP21 |
| 2.835 | 72 | 0.44 | 0.2 | | B5110-006-010-N2-B | EB707.WKP21 |
| 2.795 | 71 | 0.44 | 0.2 | TC .. 1.2(1.2) . TC .. 06T1 .. | B5110-006-010-N2-B | EB708.TC06 |
| 3.465 | 88 | 0.66 | 0.3 | | B5110-010-014-N3-B | EB709.TC06 |
| 3.465 | 88 | 0.66 | 0.3 | | B5110-010-014-N3-B | EB710.TC06 |
| 3.937 | 100 | 1.10 | 0.5 | TC .. 1.8(1.5) . TC .. 0902 .. | B5110-014-020-N4-B | EB711.TC09 |
| 3.937 | 100 | 1.10 | 0.5 | | B5110-014-020-N4-B | EB712.TC09 |

## Accessories

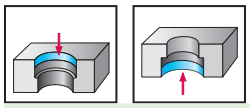
| | Type | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. |
|---|---|---|---|
|  | ISO 2936-2.5 key | ISO2936-2.5 (SW 2.5) | |
|  | ISO 2936-3 key | | ISO2936-3 (SW 3.5) |
|  | Torque screwdriver, analog | FS2001 | FS2001 |
|  | Interchangeable blade | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2086 (T6IP) | FS2088 (T7IP) |

# Precision boring tool

## B5115 mm inch

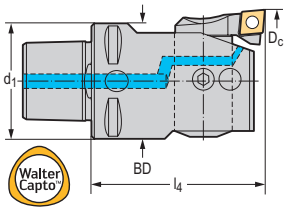
## Walter Precision XT

$D_c$ 19–167 | κ=92° | Z=1



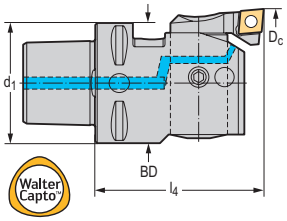
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool



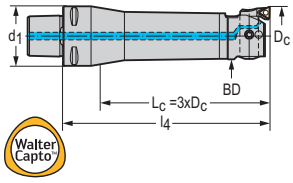

Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-035-045-C3-CC06 | 1.378-1.772 | 35–45 | C3 | 1.890 | 48 |
| B5115-044-056-C4-CC06 | 1.732-2.205 | 44–56 | C4 | 2.205 | 56 |




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-055-070-C5-CC09 | 2.165-2.756 | 55–70 | C5 | 2.756 | 70 |
| B5115-069-087-C6-CC09 | 2.717-3.425 | 69–87 | C6 | 3.228 | 82 |
| B5115-086-107-C6-CC09 | 3.386-4.213 | 86–107 | C6 | 3.701 | 94 |
| B5115-106-137-C6-CC09 | 4.173-5.394 | 106–137 | C6 | 3.701 | 94 |
| B5115-106-137-C8-CC09 | 4.173-5.394 | 106–137 | C8 | 4.094 | 104 |
| B5115-136-167-C6-CC09 | 5.354-6.575 | 136–167 | C6 | 3.701 | 94 |
| B5115-136-167-C8-CC09 | 5.354-6.575 | 136–167 | C8 | 4.094 | 104 |

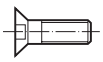



Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-019-023-C3-TC06 | 0.748-0.906 | 19–23 | C3 | 3.504 | 89 |
| B5115-023-029-C3-TC06 | 0.906-1.142 | 23–29 | C3 | 4.134 | 105 |
| B5115-028-036-C3-TC06 | 1.102-1.417 | 28–36 | C3 | 4.606 | 117 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|---|
|  | Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
|  | Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
|  | Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 1.260 | 32 | 0.66 | 0.3 | CC .. 2(1.5) . CC .. 0602 .. | B5115-035-045-C3-B | EB716.CC06 |
| 1.575 | 40 | 1.10 | 0.5 | | B5115-044-056-C4-B | EB716.CC06 |
| 1.969 | 50 | 2.21 | 1 | CC .. 3(2.5) . CC .. 09T3 .. | B5115-055-070-C5-B | EB717.CC09 |
| 2.480 | 63 | 4.19 | 1.9 | | B5115-069-087-C6-B | EB717.CC09 |
| 3.150 | 80 | 5.73 | 2.6 | | B5115-086-107-C6-B | EB717.CC09 |
| 3.937 | 100 | 6.62 | 3 | | B5115-106-137-C6-B | EB717.CC09 |
| 3.937 | 100 | 9.48 | 4.3 | | B5115-106-137-C8-B | EB717.CC09 |
| 5.118 | 130 | 8.16 | 3.7 | | B5115-136-167-C6-B | EB717.CC09 |
| 5.118 | 130 | 10.80 | 4.9 | | B5115-136-167-C8-B | EB717.CC09 |
| 0.709 | 18 | 0.66 | 0.3 | TC .. 1.2(1.2) . TC .. 06T1 .. | B5115-019-023-C3-B | EB713.TC06 |
| 0.787 | 20 | 0.88 | 0.4 | | B5115-023-029-C3-B | EB713.TC06 |
| 0.984 | 25 | 1.10 | 0.5 | | B5115-028-036-C3-B | EB713.TC06 |

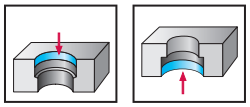
## Accessories

| | Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
| | ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
| | ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
| | ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
| | Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
| | ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
| | Torque screwdriver. analog | FS2001 | FS2003 | FS2001 | FS2001 |
| | Torque screwdriver. digital | | FS2248 | | |
| | Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
| | Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
| | Interchangeable blade | | FS2014 (T15IP) | | |
| | Screwdriver | | FS1485 (T15IP) | | |
| | Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1.2 Nm) | |
| | Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5115 mm inch

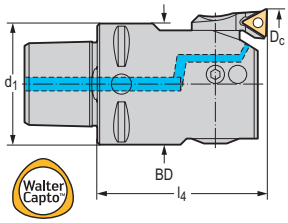
## Walter Precision XT



$D_c$ 19–167 | κ=92° | Z=1

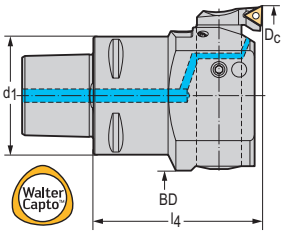
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool




Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-035-045-C3-TC09 | 1.378-1.772 | 35–45 | C3 | 1.890 | 48 |
| B5115-044-056-C4-TC09 | 1.732-2.205 | 44–56 | C4 | 2.205 | 56 |

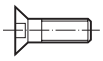



Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-055-070-C5-TC11 | 2.165-2.756 | 55–70 | C5 | 2.598 | 66 |
| B5115-069-087-C6-TC11 | 2.717-3.425 | 69–87 | C6 | 3.071 | 78 |
| B5115-086-107-C6-TC11 | 3.386-4.213 | 86–107 | C6 | 3.543 | 90 |
| B5115-106-137-C6-TC11 | 4.173-5.394 | 106–137 | C6 | 3.543 | 90 |
| B5115-106-137-C8-TC11 | 4.173-5.394 | 106–137 | C8 | 3.937 | 100 |
| B5115-136-167-C6-TC11 | 5.354-6.575 | 136–167 | C6 | 3.543 | 90 |
| B5115-136-167-C8-TC11 | 5.354-6.575 | 136–167 | C8 | 3.937 | 100 |

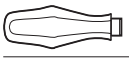
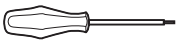
Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|---|
|  | Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
|  | Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
|  | Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 1.260 | 32 | 0.66 | 0.3 | TC .. 1.8(1.5) . TC .. 0902 .. | B5115-035-045-C3-B | EB714.TC09 |
| 1.575 | 40 | 1.10 | 0.5 | | B5115-044-056-C4-B | EB714.TC09 |
| 1.969 | 50 | 2.21 | 1 | TC .. 2(1.5) . TC .. 1102 .. | B5115-055-070-C5-B | EB715.TC11 |
| 2.480 | 63 | 4.19 | 1.9 | | B5115-069-087-C6-B | EB715.TC11 |
| 3.150 | 80 | 5.73 | 2.6 | | B5115-086-107-C6-B | EB715.TC11 |
| 3.937 | 100 | 6.62 | 3 | | B5125-106-137-C6-B | EB715.TC11 |
| 3.937 | 100 | 9.48 | 4.3 | | B5115-106-137-C8-B | EB715.TC11 |
| 5.118 | 130 | 8.16 | 3.7 | | B5115-136-167-C6-B | EB715.TC11 |
| 5.118 | 130 | 10.80 | 4.9 | | B5115-136-167-C8-B | EB715.TC11 |

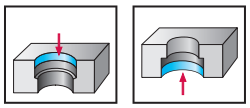
## Accessories

| | Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
|  | ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
|  | Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
|  | ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2001 | FS2001 |
|  | Torque screwdriver, digital | | FS2248 | | |
|  | Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
|  | Interchangeable blade | | FS2014 (T15IP) | | |
|  | Screwdriver | | FS1485 (T15IP) | | |
|  | Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1.2 Nm) | |
|  | Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5115 mm inch

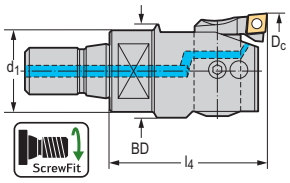
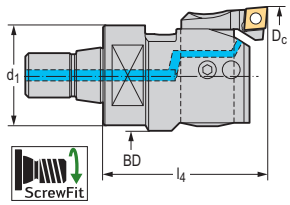
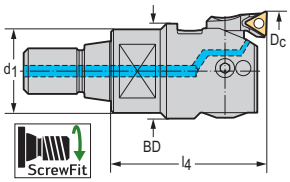
## Walter Precision XT



$D_c$ 19–167 | κ=92° | Z=1

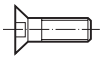
| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
|  ScrewFit | | | | | |
| B5115-035-045-T28-CC06 | 1.378-1.772 | 35–45 | T28 | 2.126 | 54 |
| B5115-044-056-T36-CC06 | 1.732-2.205 | 44–56 | T36 | 2.205 | 56 |
|  ScrewFit | | | | | |
| B5115-055-070-T45-CC09 | 2.165-2.756 | 55–70 | T45 | 2.913 | 74 |
|  ScrewFit | | | | | |
| B5115-019-023-T18-TC06 | 0.748-0.906 | 19–23 | T18 | 1.496 | 38 |
| B5115-023-029-T18-TC06 | 0.906-1.142 | 23–29 | T18 | 1.496 | 38 |
| B5115-028-036-T22-TC06 | 1.102-1.417 | 28–36 | T22 | 1.614 | 41 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|---|
|  | Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
|  | Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
|  | Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 1.260 | 32 | 0.66 | 0.3 | CC .. 2(1.5) . CC .. 0602 . | B5115-035-045-T28-B | EB716.CC06 |
| 1.575 | 40 | 1.32 | 0.6 | | B5115-044-056-T36-B | EB716.CC06 |
| 1.969 | 50 | 2.21 | 1 | CC .. 3(2.5) . CC .. 09T3 .. | B5115-055-070-T45-B | EB717.CC09 |
| 0.709 | 18 | 0.22 | 0.1 | TC .. 1.2(1.2) . TC .. 06T1 .. | B5115-019-023-T18-B | EB713.TC06 |
| 0.787 | 20 | 0.22 | 0.1 | | B5115-023-029-T18-B | EB713.TC06 |
| 0.984 | 25 | 0.44 | 0.2 | | B5115-028-036-T22-B | EB713.TC06 |

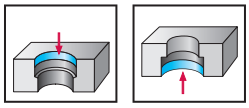
## Accessories

| Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|
| ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
| ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
| ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
| Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
| ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
| Torque screwdriver, analog | FS2001 | FS2003 | FS2001 | FS2001 |
| Torque screwdriver, digital | | FS2248 | | |
| Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
| Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
| Interchangeable blade | | FS2014 (T15IP) | | |
| Screwdriver | | FS1485 (T15IP) | | |
| Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1,2 Nm) | |
| Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5115 mm inch

## Walter Precision XT

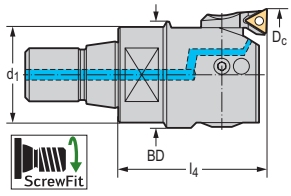
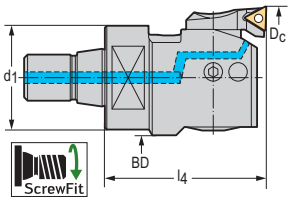


| $D_c$ 19–167 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

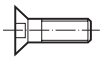
B 2

## Tool

| | Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|---|
|  ScrewFit | B5115-035-045-T28-TC09 | 1.378-1.772 | 35–45 | T28 | 2.126 | 54 |
| | B5115-044-056-T36-TC09 | 1.732-2.205 | 44–56 | T36 | 2.205 | 56 |
| ScrewFit | | | | | | |
|  ScrewFit | B5115-055-070-T45-TC11 | 2.165-2.756 | 55–70 | T45 | | |
| ScrewFit | | | | | | |

Bodies and assembly parts are included in the scope of delivery

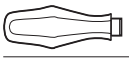
## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|---|
|  | Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
|  | Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
|  | Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 1.260 | 32 | 0.66 | 0.3 | TC .. 1.8(1.5) . TC .. 0902 .. | B5115-035-045-T28-B | EB714.TC09 |
| 1.575 | 40 | 1.32 | 0.6 | | B5115-044-056-T36-B | EB714.TC09 |
| 1.969 | 50 | 2.21 | 1 | TC .. 2(1.5) . TC .. 1102 .. | B5115-055-070-T45-B | EB715.TC11 |

B 2

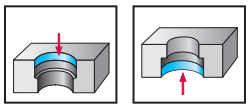
## Accessories

| | Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
|  | ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
|  | Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
|  | ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2001 | FS2001 |
|  | Torque screwdriver, digital | | FS2248 | | |
|  | Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
|  | Interchangeable blade | | FS2014 (T15IP) | | |
|  | Screwdriver | | FS1485 (T15IP) | | |
|  | Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1.2 Nm) | |
|  | Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5115 mm inch

## Walter Precision XT



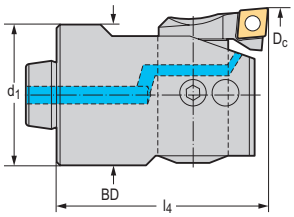
| $D_c$ 19–167 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

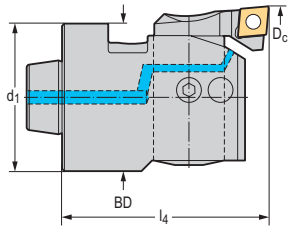
## Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-035-045-N3-CC06 | 1.378-1.772 | 35–45 | NCT 32 | 1.890 | 48 |
| B5115-044-056-N4-CC06 | 1.732-2.205 | 44–56 | NCT 40 | 2.205 | 56 |




Modular NCT adaptor

| | | | | | |
|---|---|---|---|---|---|
| B5115-055-070-N5-CC09 | 2.165-2.756 | 55–70 | NCT 50 | 2.756 | 70 |
| B5115-069-087-N6-CC09 | 2.717-3.425 | 69–87 | NCT 63 | 3.228 | 82 |
| B5115-086-107-N6-CC09 | 3.386-4.213 | 86–107 | NCT 63 | 3.701 | 94 |
| B5115-106-137-N6-CC09 | 4.173-5.394 | 106–137 | NCT 63 | 3.701 | 94 |
| B5115-106-137-N8-CC09 | 4.173-5.394 | 106–137 | NCT 80 | 4.094 | 104 |
| B5115-136-167-N6-CC09 | 5.354-6.575 | 136–167 | NCT 63 | 3.701 | 94 |
| B5115-136-167-N8-CC09 | 5.354-6.575 | 136–167 | NCT 80 | 4.094 | 104 |




Modular NCT adaptor

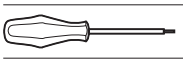
Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
| Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
| Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
| Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
| Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 1.260 | 32 | 0.66 | 0.3 | CC .. 2(1.5) . CC .. 0602 . | B5115-035-045-N3-B | EB716.CC06 |
| 1.575 | 40 | 1.10 | 0.5 | | B5115-044-056-N4-B | EB716.CC06 |
| 1.969 | 50 | 1.98 | 0.9 | CC .. 3(2.5) . CC .. 09T3 .. | B5115-055-070-N5-B | EB717.CC09 |
| 2.480 | 63 | 3.75 | 1.7 | | B5115-069-087-C6-B | EB717.CC09 |
| 3.150 | 80 | 5.29 | 2.4 | | B5115-086-107-N6-B | EB717.CC09 |
| 3.937 | 100 | 6.17 | 2.8 | | B5115-106-137-N6-B | EB717.CC09 |
| 3.937 | 100 | 8.38 | 3.8 | | B5115-106-137-N8-B | EB717.CC09 |
| 5.118 | 130 | 7.50 | 3.4 | | B5115-136-167-N6-B | EB717.CC09 |
| 5.118 | 130 | 9.70 | 4.4 | | B5115-136-167-N8-B | EB717.CC09 |

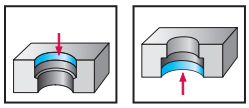
## Accessories

| | Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
|  | ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
|  | Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
|  | ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2001 | FS2001 |
|  | Torque screwdriver, digital | | FS2248 | | |
|  | Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
|  | Interchangeable blade | | FS2014 (T15IP) | | |
|  | Screwdriver | | FS1485 (T15IP) | | |
|  | Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1.2 Nm) | |
|  | Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5115 mm inch

## Walter Precision XT

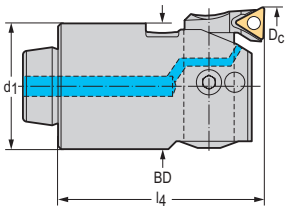
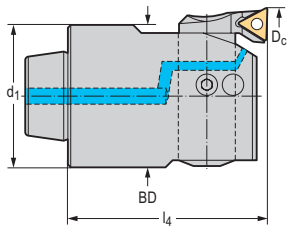


| $D_c$ 19–167 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

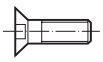
B 2

## Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
|  B5115-019-023-N2-TC06 | 0.748-0.906 | 19–23 | NCT 25 | 3.150 | 80 |
| B5115-023-029-N2-TC06 | 0.906-1.142 | 23–29 | NCT 25 | 3.583 | 91 |
| B5115-028-036-N2-TC06 | 1.102-1.417 | 28–36 | NCT 25 | 1.614 | 41 |
| Modular NCT adaptor | | | | | |
|  B5115-035-045-N3-TC09 | 1.378-1.772 | 35–45 | NCT 32 | 1.890 | 48 |
| B5115-044-056-N4-TC09 | 1.732-2.205 | 44–56 | NCT 40 | 2.205 | 56 |
| Modular NCT adaptor | | | | | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
|  Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
|  Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
|  Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 0.709 | 18 | 0.44 | 0.2 | TC .. 1.2(1.2) . TC .. 06T1 .. | B5115-019-023-N2-B | EB713.TC06 |
| 0.787 | 20 | 0.44 | 0.2 | | B5115-023-029-N2-B | EB713.TC06 |
| 0.984 | 25 | 0.44 | 0.2 | | B5115-028-036-N2-B | EB713.TC06 |
| 1.260 | 32 | 0.66 | 0.3 | TC .. 1.8(1.5) . TC .. 0902 .. | B5115-035-045-N3-B | EB714.TC09 |
| 1.575 | 40 | 2.21 | 1 | | B5115-044-056-N4-B | EB714.TC09 |

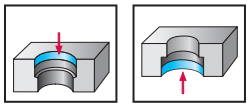
## Accessories

| | Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
|  | ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
|  | Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
|  | ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2001 | FS2001 |
|  | Torque screwdriver, digital | | FS2248 | | |
|  | Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
|  | Interchangeable blade | | FS2014 (T15IP) | | |
|  | Screwdriver | | FS1485 (T15IP) | | |
|  | Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1.2 Nm) | |
|  | Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5115 mm inch

## Walter Precision XT

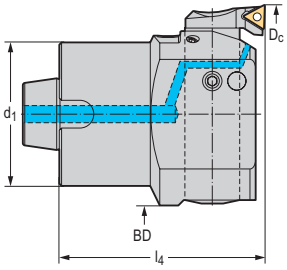


| $D_c$ 19–167 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5115 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

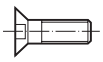



Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5115-055-070-N5-TC11 | 2.165-2.756 | 55–70 | NCT 50 | 2.598 | 66 |
| B5115-069-087-N6-TC11 | 2.717-3.425 | 69–87 | NCT 63 | 3.071 | 78 |
| B5115-086-107-N6-TC11 | 3.386-4.213 | 86–107 | NCT 63 | 3.543 | 90 |
| B5115-106-137-N6-TC11 | 4.173-5.394 | 106–137 | NCT 63 | 3.543 | 90 |
| B5115-106-137-N8-TC11 | 4.173-5.394 | 106–137 | NCT 80 | 3.937 | 100 |
| B5115-136-167-N6-TC11 | 5.354-6.575 | 136–167 | NCT 63 | 3.543 | 90 |
| B5115-136-167-N8-TC11 | 5.354-6.575 | 136–167 | NCT 80 | 3.937 | 100 |

Bodies and assembly parts are included in the scope of delivery

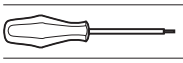
## Assembly parts

| | Type | CC .. 2(1.5) . CC .. 0602 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) . TC .. 06T1 .. | TC .. 1.8(1.5) . TC .. 0902 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|---|
|  | Clamping screw | FS2624 | FS2630 | FS2628 | FS2624 | FS2630 |
|  | Clamping screw for indexable insert | FS2665 (7IP) 7 in lbs (0.8 Nm) | FS2666 (15IP) 27 in lbs (3 Nm) | FS2633 (6IP) 5 in lbs (0.6 Nm) | FS2664 (7IP) 7 in lbs (0.8 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2635 | FS2636 | FS2634 | FS2635 | FS2636 |
|  | Coolant screw | FS2640 | FS2641 | FS2640 | FS2640 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 1.969 | 50 | 1.98 | 0.9 | TC .. 2(1.5) . TC .. 1102 .. | B5115-055-070-N5-B | EB715.TC11 |
| 2.480 | 63 | 3.75 | 1.7 | | B5115-069-087-N6-B | EB715.TC11 |
| 3.150 | 80 | 5.29 | 2.4 | | B5115-086-107-N6-B | EB715.TC11 |
| 3.937 | 100 | 6.17 | 2.8 | | B5115-106-137-N6-B | EB715.TC11 |
| 3.937 | 100 | 8.38 | 3.8 | | B5115-106-137-N8-B | EB715.TC11 |
| 5.118 | 130 | 7.50 | 3.4 | | B5115-136-167-N6-B | EB715.TC11 |
| 5.118 | 130 | 9.70 | 4.4 | | B5115-136-167-N8-B | EB715.TC11 |

B 2

## Accessories

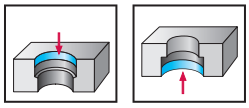
| | Type | CC .. 2(1.5) . – TC .. 1.8(1.5) . CC .. 0602 ..–TC .. 0902 .. | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 1.2(1.2) TC .. 06T1 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|---|---|
|  | ISO 2936-1.5 key | | ISO2936-1.5 (SW 1.5) | | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-2 key | | | ISO2936-2 (SW 2.5) | |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | | | |
|  | Keys | ISO2936-0.9 (SW 0.9) | | ISO2936-0.9 (SW 0.9) | |
|  | ISO 2936-4 key | | ISO2936-4 (SW 4) | | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2001 | FS2003 | FS2001 | FS2001 |
|  | Torque screwdriver, digital | | FS2248 | | |
|  | Interchangeable blade | FS2011 (T7IP) | | FS2085 (T6IP) | FS2011 (T7IP) |
|  | Screwdriver | FS2088 (T7IP) | | FS2086 (T6IP) | FS2088 (T7IP) |
|  | Interchangeable blade | | FS2014 (T15IP) | | |
|  | Screwdriver | | FS1485 (T15IP) | | |
|  | Extension | EB736 27 in lbs (3 Nm) | | EB735 11 in lbs (1.2 Nm) | |
|  | Extension | | EB737 53 in lbs (6 Nm) | | EB737 53 in lbs (6 Nm) |

# Fine Lightweight boring tool

## B5125 mm inch

## Walter Precision XT

– Weight reduced (LWS)
–

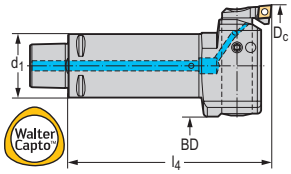


Dc 69–167 | κ=92° | Z=1 | LWS

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5125 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

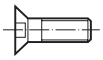



Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5125-069-087-C5-CC09 | 2.717-3.425 | 69–87 | C5 | 6.063 | 154 |
| B5125-086-107-C5-CC09 | 3.386-4.213 | 86–107 | C5 | 6.299 | 160 |
| B5125-106-137-C6-CC09 | 4.173-5.394 | 106–137 | C6 | 7.638 | 194 |
| B5125-136-167-C8-CC09 | 5.354-6.575 | 136–167 | C8 | 8.031 | 204 |

Bodies and assembly parts are included in the scope of delivery

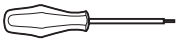
## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2630 | FS2630 |
|  | Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2636 | FS2636 |
|  | Coolant screw | FS2641 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 2.480 | 63 | 3.31 | 1.5 | CC .. 3(2.5) . CC .. 09T3 .. | B5125-069-087-C5-B | EB717.CC09 |
| 3.150 | 80 | 3.53 | 1.6 | | B5125-086-107-C5-B | EB717.CC09 |
| 3.937 | 100 | 6.62 | 3 | | B5125-106-137-C6-B | EB717.CC09 |
| 5.118 | 130 | 9.04 | 4.1 | | B5125-136-167-C8-B | EB717.CC09 |

B 2

## Accessories

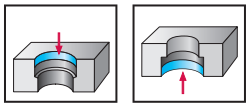
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, analog | | FS2011 (T7IP) |
|  | Torque screwdriver, digital | FS2248 | |
|  | Screwdriver | | FS2088 (T7IP) |
|  | Interchangeable blade | FS2014 (T15IP) | |
|  | Screwdriver | FS1485 (T15IP) | |
|  | Extension | EB737 53 in lbs (6 Nm) | EB737 53 in lbs (6 Nm) |

# Fine Lightweight boring tool

## B5125 mm inch

## Walter Precision XT

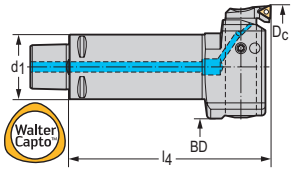
– Weight reduced (LWS)
–



Dc 69–167 | κ=92° | Z=1 | LWS

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5125 | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool

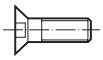



Walter Capto™ in acc. with ISO 26623

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5125-069-087-C5-TC11 | 2.717-3.425 | 69–87 | C5 | 5.906 | 150 |
| B5125-086-107-C5-TC11 | 3.386-4.213 | 86–107 | C5 | 6.142 | 156 |
| B5125-106-137-C6-TC11 | 4.173-5.394 | 106–137 | C6 | 7.480 | 190 |
| B5125-136-167-C8-TC11 | 5.354-6.575 | 136–167 | C8 | 7.874 | 200 |

Bodies and assembly parts are included in the scope of delivery

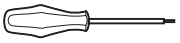
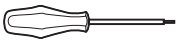
## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2630 | FS2630 |
|  | Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Clamping screw for cartridge | FS2636 | FS2636 |
|  | Coolant screw | FS2641 | FS2641 |

| BD in | BD mm | lbs | kg | Type | Basic body | Cartridge |
|---|---|---|---|---|---|---|
| 2.480 | 63 | 3.31 | 1.5 | TC .. 2(1.5) . TC .. 1102 .. | B5125-069-087-C5-B | EB715.TC11 |
| 3.150 | 80 | 3.53 | 1.6 | | B5125-086-107-C5-B | EB715.TC11 |
| 3.937 | 100 | 6.62 | 3 | | B5125-106-137-C6-B | EB715.TC11 |
| 5.118 | 130 | 9.04 | 4.1 | | B5125-136-167-C8-B | EB715.TC11 |

B 2

## Accessories

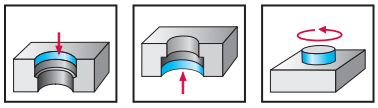
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, analog | | FS2011 (T7IP) |
|  | Torque screwdriver, digital | FS2248 | |
|  | Screwdriver | | FS2088 (T7IP) |
|  | Interchangeable blade | FS2014 (T15IP) | |
|  | Screwdriver | FS1485 (T15IP) | |
|  | Extension | EB737 53 in lbs (6 Nm) | EB737 53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–

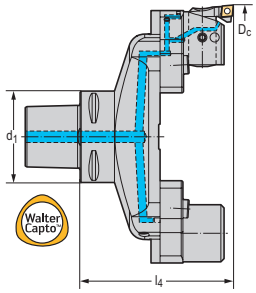


| $D_c$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

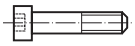


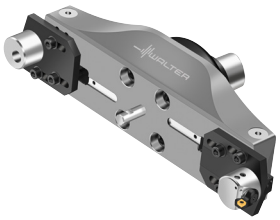

Walter Capto™ in acc. with ISO 26623

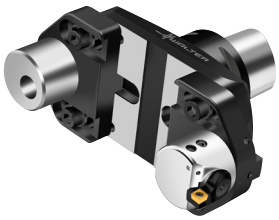
| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-148-215-C8-CC09 | 5.827-8.465 | 148–215 | C8 | 5.276 | 134 |
| B5120-198-265-C8-CC09 | 7.795-10.433 | 198–265 | C8 | 5.276 | 134 |
| B5120-248-315-C8-CC09 | 9.764-12.402 | 248–315 | C8 | 5.276 | 134 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
|  | Coolant screw | FS2641 | FS2641 |
|  | Clamping screw for indexable insert | FS2666 (15IP)<br>27 in lbs (3 Nm) | FS2665 (7IP)<br>7 in lbs (0.8 Nm) |
|  | Washer | FS2649 | FS2649 |
| | Adjustment set | FS2653 | FS2653 |
|  | O-ring | FS2657 | FS2657 |
|  | Stud | FS2654 | FS2654 |

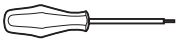




| lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|
| 13.67 | 6.2 | CC .. 3(2.5) . CC .. 09T3 .. | B5120-148-000-C8-B | | EB719 | EB718 | EB721 | EB717.CC09 |
| 16.32 | 7.4 | | B5120-198-000-C8-B | | EB719 | EB718 | EB721 | EB717.CC09 |
| 18.74 | 8.5 | | B5120-248-000-C8-B | | EB719 | EB718 | EB721 | EB717.CC09 |

B 2

## Accessories

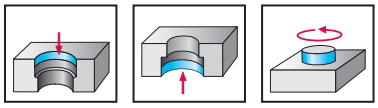
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–

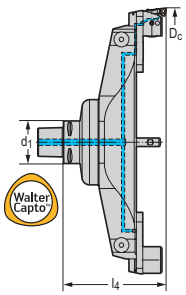


| $D_c$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

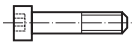


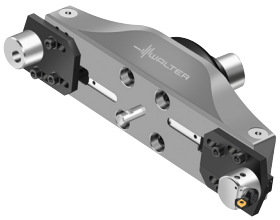

Walter Capto™ in acc. with ISO 26623

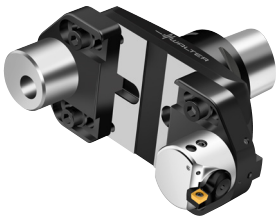
| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-298-395-C8-CC09 | 11.732-15.551 | 298–395 | C8 | 7.205 | 183 |
| B5120-378-475-C8-CC09 | 14.882-18.701 | 378–475 | C8 | 7.402 | 188 |
| B5120-458-555-C8-CC09 | 18.031-21.850 | 458–555 | C8 | 7.598 | 193 |
| B5120-538-635-C8-CC09 | 21.181-25.000 | 538–635 | C8 | 7.795 | 198 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
|  | Coolant screw | FS2641 | FS2641 |
|  | Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Washer | FS2649 | FS2649 |
| | Adjustment set | FS2653 | FS2653 |
|  | O-ring | FS2657 | FS2657 |
|  | Stud | FS2654 | FS2654 |

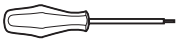




| lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|
| 33.30 | 15.1 | CC .. 3(2.5) . CC .. 09T3 .. | B5120-298-000-C8-B | EB731 | EB720 | EB718 | EB722 | EB717.CC09 |
| 37.04 | 16.8 | | B5120-298-000-C8-B | EB732 | EB720 | EB718 | EB722 | EB717.CC09 |
| 41.45 | 18.8 | | B5120-298-000-C8-B | EB733 | EB720 | EB718 | EB722 | EB717.CC09 |
| 46.75 | 21.2 | | B5120-298-000-C8-B | EB734 | EB720 | EB718 | EB722 | EB717.CC09 |

B 2

## Accessories

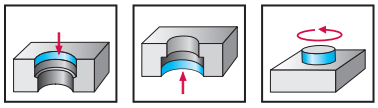
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

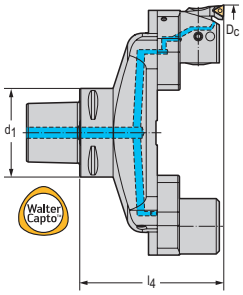
– Basic body/bridge can also be used with B5460 and B5560
–



| $D_C$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

## Tool

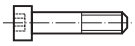


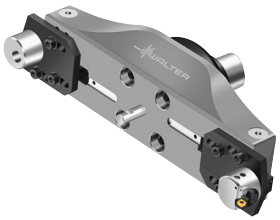

Walter Capto™ in acc. with ISO 26623

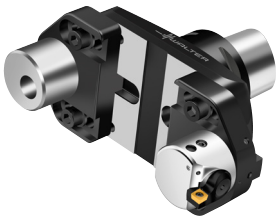
| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-148-215-C8-TC11 | 5.827-8.465 | 148–215 | C8 | 5.118 | 130 |
| B5120-198-265-C8-TC11 | 7.795-10.433 | 198–265 | C8 | 5.118 | 130 |
| B5120-248-315-C8-TC11 | 9.764-12.402 | 248–315 | C8 | 5.118 | 130 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
|  | Coolant screw | FS2641 | FS2641 |
|  | Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  | Washer | FS2649 | FS2649 |
| | Adjustment set | FS2653 | FS2653 |
|  | O-ring | FS2657 | FS2657 |
|  | Stud | FS2654 | FS2654 |

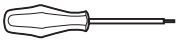




| lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|
| 13.67 | 6.2 | TC .. 2(1.5) . TC .. 1102 .. | B5120-148-000-C8-B | | EB719 | EB718 | EB721 | EB715.TC11 |
| 16.32 | 7.4 | | B5120-198-000-C8-B | | EB719 | EB718 | EB721 | EB715.TC11 |
| 18.74 | 8.5 | | B5120-248-000-C8-B | | EB719 | EB718 | EB721 | EB715.TC11 |

B 2

## Accessories

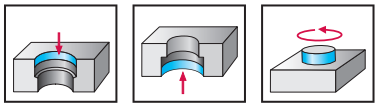
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–

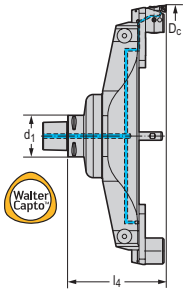


| $D_c$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

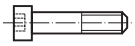


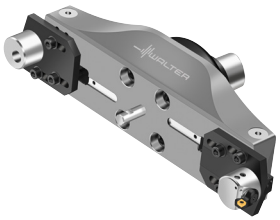

Walter Capto™ in acc. with ISO 26623

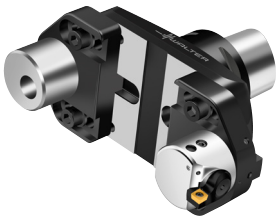
| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-298-395-C8-TC11 | 11.732-15.551 | 298–395 | C8 | 7.047 | 179 |
| B5120-378-475-C8-TC11 | 14.882-18.701 | 378–475 | C8 | 7.244 | 184 |
| B5120-458-555-C8-TC11 | 18.031-21.850 | 458–555 | C8 | 7.441 | 189 |
| B5120-538-635-C8-TC11 | 21.181-25.000 | 538–635 | C8 | 7.638 | 194 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
|  | Coolant screw | FS2641 | FS2641 |
|  | Clamping screw for indexable insert | FS2666 (15IP)<br>27 in lbs (3 Nm) | FS2665 (7IP)<br>7 in lbs (0.8 Nm) |
|  | Washer | FS2649 | FS2649 |
| | Adjustment set | FS2653 | FS2653 |
|  | O-ring | FS2657 | FS2657 |
|  | Stud | FS2654 | FS2654 |

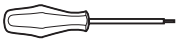




| | lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|---|
| | 33.30 | 15.1 | TC .. 2(1.5) . TC .. 1102 .. | B5120-298-000-C8-B | EB731 | EB720 | EB718 | EB722 | EB715.TC11 |
| | 37.04 | 16.8 | | B5120-298-000-C8-B | EB732 | EB720 | EB718 | EB722 | EB715.TC11 |
| | 41.45 | 18.8 | | B5120-298-000-C8-B | EB733 | EB720 | EB718 | EB722 | EB715.TC11 |
| | 46.75 | 21.2 | | B5120-298-000-C8-B | EB734 | EB720 | EB718 | EB722 | EB715.TC11 |

B 2

## Accessories

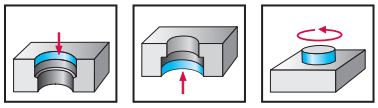
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–



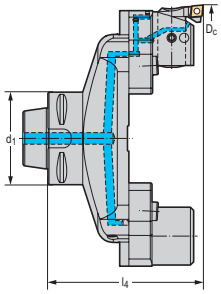
| $D_c$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-148-215-N8-CC09 | 5.827-8.465 | 148–215 | NCT 80 | 5.276 | 134 |
| B5120-198-265-N8-CC09 | 7.795-10.433 | 198–265 | NCT 80 | 5.276 | 134 |
| B5120-248-315-N8-CC09 | 9.764-12.402 | 248–315 | NCT 80 | 5.276 | 134 |

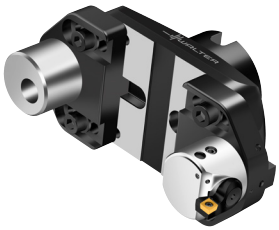



Modular NCT adaptor

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

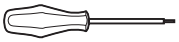
| Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|
| Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
| Coolant screw | FS2641 | FS2641 |
| Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
| Washer | FS2649 | FS2649 |
| Adjustment set | FS2653 | FS2653 |
| O-ring | FS2657 | FS2657 |
| Stud | FS2654 | FS2654 |



| | lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|---|
| | 12.57 | 5.7 | CC .. 3(2.5) . CC .. 09T3 .. | B5120-148-000-N8-B | | EB719 | EB718 | EB721 | EB717.CC09 |
| | 15.21 | 6.9 | | B5120-198-000-N8-B | | EB719 | EB718 | EB721 | EB717.CC09 |
| | 17.64 | 8 | | B5120-248-000-N8-B | | EB719 | EB718 | EB721 | EB717.CC09 |

B 2

## Accessories

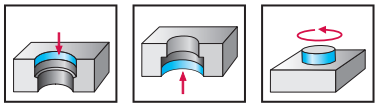
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–

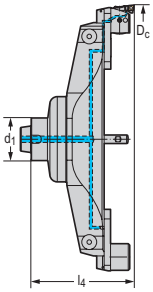


| $D_c$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

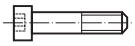


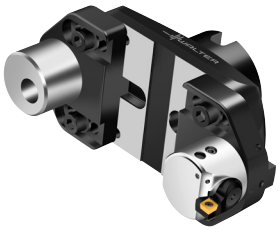

Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-298-395-N8-CC09 | 11.732-15.551 | 298–395 | NCT 80 | 7.205 | 183 |
| B5120-378-475-N8-CC09 | 14.882-18.701 | 378–475 | NCT 80 | 7.402 | 188 |
| B5120-458-555-N8-CC09 | 18.031-21.850 | 458–555 | NCT 80 | 7.598 | 193 |
| B5120-538-635-N8-CC09 | 21.181-25.000 | 538–635 | NCT 80 | 7.795 | 198 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

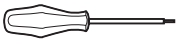
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
|  | Coolant screw | FS2641 | FS2641 |
|  | Clamping screw for indexable insert | FS2666 (15IP)<br>27 in lbs (3 Nm) | FS2665 (7IP)<br>7 in lbs (0.8 Nm) |
|  | Washer | FS2649 | FS2649 |
| | Adjustment set | FS2653 | FS2653 |
|  | O-ring | FS2657 | FS2657 |
|  | Stud | FS2654 | FS2654 |



| lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|
| 31.97 | 14.5 | CC .. 3(2.5) . CC .. 09T3 .. | B5120-298-000-N8-B | EB731 | EB720 | EB718 | EB722 | EB717.CC09 |
| 35.94 | 16.3 | | B5120-298-000-N8-B | EB732 | EB720 | EB718 | EB722 | EB717.CC09 |
| 40.13 | 18.2 | | B5120-298-000-N8-B | EB733 | EB720 | EB718 | EB722 | EB717.CC09 |
| 45.42 | 20.6 | | B5120-298-000-N8-B | EB734 | EB720 | EB718 | EB722 | EB717.CC09 |

B 2

## Accessories

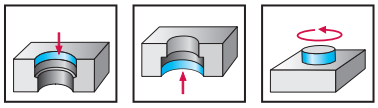
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–



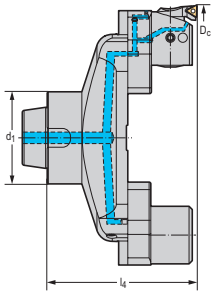
| $D_C$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool

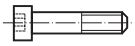
| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-148-215-N8-TC11 | 5.827-8.465 | 148–215 | NCT 80 | 5.118 | 130 |
| B5120-198-265-N8-TC11 | 7.795-10.433 | 198–265 | NCT 80 | 5.118 | 130 |
| B5120-248-315-N8-TC11 | 9.764-12.402 | 248–315 | NCT 80 | 5.118 | 130 |

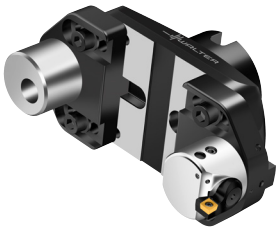



Modular NCT adaptor

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

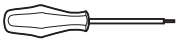
| Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|
|  Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
|  Coolant screw | FS2641 | FS2641 |
|  Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
|  Washer | FS2649 | FS2649 |
| Adjustment set | FS2653 | FS2653 |
|  O-ring | FS2657 | FS2657 |
|  Stud | FS2654 | FS2654 |



| lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|
| 12.57 | 5.7 | TC .. 2(1.5) . TC .. 1102 .. | B5120-148-000-N8-B | | EB719 | EB718 | EB721 | EB715.TC11 |
| 15.21 | 6.9 | | B5120-198-000-N8-B | | EB719 | EB718 | EB721 | EB715.TC11 |
| 17.64 | 8 | | B5120-248-000-N8-B | | EB719 | EB718 | EB721 | EB715.TC11 |

B 2

## Accessories

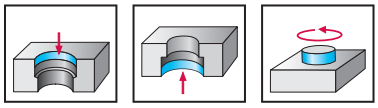
| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# Precision boring tool

## B5120 mm inch

## Walter Precision XT

– Basic body/bridge can also be used with B5460 and B5560
–

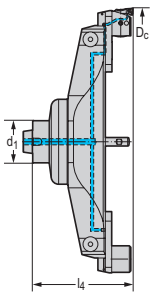


| $D_c$ 148–635 | κ=92° | Z=1 |
|---|---|---|

| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| B5120 | ●● | ●● | ●● | ●● | ●● | ● | ● |

B 2

## Tool



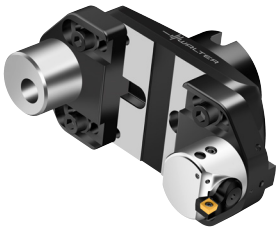

Modular NCT adaptor

| Designation | $D_c$ in | $D_c$ mm | $d_1$ | $l_4$ in | $l_4$ mm |
|---|---|---|---|---|---|
| B5120-298-395-N8-TC11 | 11.732-15.551 | 298–395 | NCT 80 | 7.047 | 179 |
| B5120-378-475-N8-TC11 | 14.882-18.701 | 378–475 | NCT 80 | 7.244 | 184 |
| B5120-458-555-N8-TC11 | 18.031-21.850 | 458–555 | NCT 80 | 7.441 | 189 |
| B5120-538-635-N8-TC11 | 21.181-25.000 | 538–635 | NCT 80 | 7.638 | 194 |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

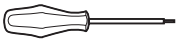
| Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|
| Clamping screw | FS2646 (HEX5) | FS2646 (HEX5) |
| Coolant screw | FS2641 | FS2641 |
| Clamping screw for indexable insert | FS2666 (15IP) 27 in lbs (3 Nm) | FS2665 (7IP) 7 in lbs (0.8 Nm) |
| Washer | FS2649 | FS2649 |
| Adjustment set | FS2653 | FS2653 |
| O-ring | FS2657 | FS2657 |
| Stud | FS2654 | FS2654 |



| lbs | kg | Type | Basic body | Bridge | Slider | Precision-boring head | Counterweight | Cartridge |
|---|---|---|---|---|---|---|---|---|
| 31.97 | 14.5 | TC .. 2(1.5) . TC .. 1102 .. | B5120-298-000-N8-B | EB731 | EB720 | EB718 | EB722 | EB715.TC11 |
| 35.94 | 16.3 | | B5120-298-000-N8-B | EB732 | EB720 | EB718 | EB722 | EB715.TC11 |
| 40.13 | 18.2 | | B5120-298-000-N8-B | EB733 | EB720 | EB718 | EB722 | EB715.TC11 |
| 45.42 | 20.6 | | B5120-298-000-N8-B | EB734 | EB720 | EB718 | EB722 | EB715.TC11 |

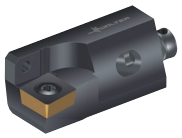
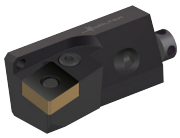
B 2

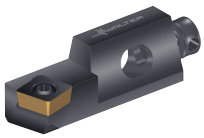
## Accessories

| | Type | CC .. 3(2.5) . CC .. 09T3 .. | TC .. 2(1.5) . TC .. 1102 .. |
|---|---|---|---|
|  | ISO 2936-1.5 key | ISO2936-1.5 (SW 1.5) | ISO2936-1.5 (SW 1.5) |
|  | ISO 2936-3 key | ISO2936-3 (SW 3.5) | ISO2936-3 (SW 3.5) |
|  | ISO 2936-4 key | ISO2936-4 (SW 4) | ISO2936-4 (SW 4) |
|  | ISO 2936-5 key | ISO2936-5 (SW5) | ISO2936-5 (SW5) |
|  | ISO 2936-8 key | ISO2936-8 (SW 8) | ISO2936-8 (SW 8) |
|  | Torque screwdriver, analog | FS2003 | FS2001 |
|  | Torque screwdriver, digital | FS2248 | |
|  | Interchangeable blade | FS2014 (T15IP) | FS2011 (T7IP) |
|  | Screwdriver | FS1485 (T15IP) | FS2088 (T7IP) |
|  | Extension | EB737<br>53 in lbs (6 Nm) | EB737<br>53 in lbs (6 Nm) |

# ISO cartridges

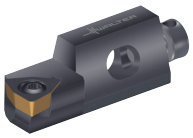


| Type | | | | |
|---|---|---|---|---|
| Machining | | | | |
| |  |  |  |  |
| **Designation** | **SCFC...CA** | **SCLC...CA** | **PCLN...CA** | **PCFN...CA** |
| **Approach angle** | 100° | 95° | 95° | 90° |
| **Clamping system** | Screw | Screw | Lever-type | Lever-type |
| **Coolant supply** | External | External | External | External |
| **Shank size h [mm]** | 15–20 | 15–20 | 20–33 | 20 |
| **Shank size h [Inch]** | | | | |
| **Insert size l [mm]** | 9–12 | 9–12 | 12–19 | 12 |
| **Page in catalogue** | B 564 | B 564 | B 558 | B 557 |
| **QR code** | | | | |
| www.walter-tools.com/woc/ | SCFC-CA | SCLC-CA | PCLN-CA | PCFN-CA |

| Type | | | | |
|---|---|---|---|---|
| Machining | | | | |
| |  |  |  |  |
| **Designation** | **SSKC-09...CA** | **SSRC-12...CA** | **PSKN...CA** | **PSSN...CA** |
| **Approach angle** | 75° | 75° | 75° | 45° |
| **Clamping system** | Screw | Screw | Lever-type | Lever-type |
| **Coolant supply** | External | External | External | External |
| **Shank size h [mm]** | 15 | 15 | 15–33 | 20 |
| **Shank size h [Inch]** | | | | |
| **Insert size l [mm]** | 9 | 9 | 9–19 | 12 |
| **Page in catalogue** | B 565 | B 565 | B 560 | B 562 |
| **QR code** | | | | |
| www.walter-tools.com/woc/ | SSKC-09-CA | SSRC-12-CA | PSKN-CA | PSSN-CA |

**WALTER SELECT** ●● Primary application ● Other application

# ISO cartridges

| Type | | | |
|---|---|---|---|
| Machining | | | |
| |  |  |  |
| **Designation** | **STFC...CA** | **PTFN...CA** | **SWFC...CA** |
| **Approach angle** | 91° | 95° | 100° |
| **Clamping system** | Screw | Lever-type | Screw |
| **Coolant supply** | External | External | External |
| **Shank size h [mm]** | 9,4–15 | 20 | 15 |
| **Shank size h [Inch]** | | | |
| **Insert size l [mm]** | 9–11 | 16 | 6 |
| **Page in catalogue** | B 566 | B 563 | B 567 |
| **QR code** | | | |
| www.walter-tools.com/woc/ | STFC-CA | PTFN-CA | SWFC-CA |

B 2

**WALTER SELECT** ●● Primary application ● Other application

# Walter mini cartridges

| Type | | | | |
|---|---|---|---|---|
| Machining | | | | |
| |  |  |  |  |
| **Designation** | | | | |
| **Approach angle** | 90° | 75° | 30° | 100° |
| **Clamping system** | Screw | Screw | Screw | Screw |
| **Coolant supply** | External | External | External | External |
| **Shank size h [mm]** | | | | |
| **Shank size h [Inch]** | | | | |
| **Insert size l [mm]** | 6 | | 11 | 4 |
| **Page in catalogue** | B 568 | B 572 | B 569 | B 568 |

B 2

| Type | |
|---|---|
| Machining | |
| |  |
| **Designation** | |
| **Approach angle** | 90° |
| **Clamping system** | Screw |
| **Coolant supply** | External |
| **Shank size h [mm]** | |
| **Shank size h [Inch]** | |
| **Insert size l [mm]** | 6 |
| **Page in catalogue** | B 568 |

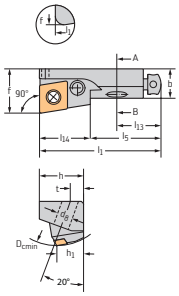
**WALTER SELECT** ●● Primary application ● Other application

# Walter precision boring cartridges

| Type | | |
|---|---|---|
| Machining | | |
| |  |  |
| **Designation** | | |
| **Approach angle** | 90° | 100° |
| **Clamping system** | Screw | Screw |
| **Coolant supply** | External | External |
| **Shank size h [mm]** | | |
| **Shank size h [Inch]** | | |
| **Insert size l [mm]** | 11 | 4–6 |
| **Page in catalogue** | B 576 | B 574 |

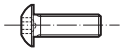
# ISO cartridge
# PCFN...CA

## Tool

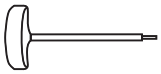
| | Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PCFNR12CA-12 | 0.472 | 0.524 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 1.850 | 1.260 | 0.236 | CN .. 43 .. CN .. 1204 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | CN .. 43 .. CN .. 1204 .. |
|---|---|---|
|  | Lever | KN109 |
|  | Clamping screw for indexable insert<br>Tightening torque | FS332 (SW 2.5)<br>22 in lbs |
|  | Adjusting screw, axial | FS335 |
|  | Adjusting screw, radial | FS334 (SW 2) |
|  | Fastening screw | FS977 (T30) |

## Accessories

| | Type | CN .. 43 .. CN .. 1204 .. |
|---|---|---|
|  | ISO 2936 key | ISO2936-2.5 (SW 2.5) |
|  | Handle key | FS1175 (T30) |

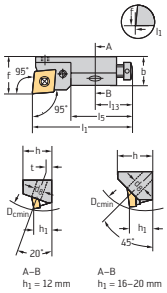
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# ISO cartridge
# PCLN...CA

## Tool




| Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCLNL12CA-12 | 0.472 | 0.630 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.102 | 0.236 | CN .. 43 .. CN .. 1204 .. |
| PCLNL16CA-12 | 0.630 | 0.787 | 2.362 | 0.354 | 0.984 | 0.984 | 0.984 | 2.480 | 1.378 | 0 | |
| PCLNL20CA-16 | 0.787 | 0.787 | 2.756 | 0.354 | 1.181 | 0.984 | 1.181 | 2.756 | 1.575 | 0 | |
| PCLNR12CA-12 | 0.472 | 0.630 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.102 | 0.236 | |
| PCLNR16CA-12 | 0.630 | 0.787 | 2.362 | 0.354 | 0.984 | 0.984 | 0.984 | 2.480 | 1.378 | 0 | |
| PCLNR20CA-16 | 0.787 | 0.787 | 2.756 | 0.354 | 1.181 | 0.984 | 1.181 | 2.756 | 1.575 | 0 | CN .. 54 .. CN .. 1606 .. |
| PCLNR25CA-19 | 0.984 | 0.984 | 3.937 | 0.433 | 1.181 | 1.260 | 1.299 | 3.543 | 2.441 | 0 | CN .. 64 .. CN .. 1906 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

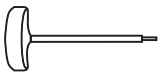
| | Type | CN .. 43 .. CN .. 1204 .. | CN .. 54 .. CN .. 1606 .. | CN .. 64 .. CN .. 1906 .. |
|---|---|---|---|---|
|  | Lever | KN109 | | |
|  | Shim | | AP135-CN1624 | AP136-CN1924 |
|  | Lever | | KN104 | KN106 |
|  | Clamping screw for indexable insert<br>Tightening torque | FS332 (SW 2.5)<br>22 in lbs | FS354 (SW 3)<br>44 in lbs | FS356<br>89 in lbs |
|  | Shim pin | | RS103 | RS104 |
|  | Tapered assembly pin | | MD102 | MD102 |
| | Adjusting screw, axial | | FS339 | FS2575 |
|  | Adjusting screw, radial | FS334 (SW 2) | | |
| | Adjusting screw, axial | FS335 | | |
|  | Adjusting screw, radial | | FS337 (SW 2.5) | FS974 |
| | Fastening screw | FS977 (T30) | FS975 (T40) | FS2578 (T50) |

**WALTER SELECT**

●● Primary application ● Other application

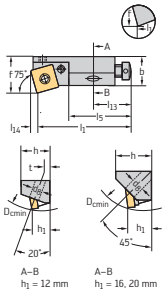
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Accessories

| | Type | CN .. 43 .. CN .. 1204 .. | CN .. 54 .. CN .. 1606 .. | CN .. 64 .. CN .. 1906 .. |
|---|---|---|---|---|
|  | Key ISO 2936 | ISO2936-2.5 (SW 2.5) | ISO2936-3 (SW 3.5) | ISO2936-4 (SW 4) |
|  | Handle key, large | FS1175 (Torx 30) | FS1176 (T40) | FS2577 (T45) |

# ISO cartridge
# PSKN...CA

## Tool




| Designation | $h_1$ in | $l_{14}$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSKNL12CA-12 | 0.472 | 0.122 | 0.630 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.26 | 0.236 | SN .. 43 .. SN .. 1204 .. |
| PSKNL16CA-12 | 0.630 | 0.122 | 0.787 | 2.362 | 0.354 | 0.984 | 0.984 | 0.984 | 2.480 | 1.457 | 0 | |
| PSKNR10CA-09 | 0.394 | 0.087 | 0.394 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.732 | 0.669 | 0.197 | SN .. 32 .. SN .. 0903 .. |
| PSKNR12CA-12 | 0.472 | 0.122 | 0.63 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.260 | 0.236 | SN .. 43 .. SN .. 1204 .. |
| PSKNR16CA-12 | 0.63 | 0.122 | 0.787 | 2.362 | 0.354 | 0.984 | 0.984 | 0.984 | 2.480 | 1.457 | 0 | |
| PSKNR20CA-15 | 0.787 | 0.15 | 0.787 | 2.756 | 0.354 | 1.181 | 0.984 | 1.181 | 2.756 | 1.575 | 0 | SN .. 54 .. SN .. 1506 .. |
| PSKNR25CA-19 | 0.984 | 0.181 | 0.984 | 3.937 | 0.433 | 1.181 | 1.260 | 1.299 | 3.543 | 2.48 | 0 | SN .. 64 .. SN .. 1906 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

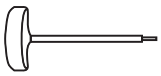
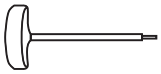
| Type | SN .. 32 .. SN .. 0903 .. | SN .. 43 .. SN .. 1204 .. | SN .. 54 .. SN .. 1506 .. | SN .. 64 .. SN .. 1906 .. |
|---|---|---|---|---|
| Lever | | KN109 | | |
| Shim | | | AP142-SN1524 | AP143-SN1924 |
| Lever | KN126 | | KN104 | KN106 |
| Clamping screw for indexable insert | | FS332 (SW 2.5) 22 in lbs | | |
| Clamping screw for indexable insert Tightening torque | FS2182 18 in lbs | | FS354 (SW 3) 44 in lbs | FS356 89 in lbs |
| Adjusting screw, axial | FS335 | FS335 | | |
| Shim pin | | | RS103 | RS104 |
| Adjusting screw, radial | FS333 (SW 2) | FS333 (SW 2) | | |
| Tapered assembly pin | | | MD102 | MD102 |
| Fastening screw | | FS977 (T30) | | |
| Adjusting screw, axial | | | FS339 | FS2575 |
| Adjusting screw, radial | | | FS337 (SW 2.5) | FS974 |
| Fastening screw | FS976 (T30) | | FS975 (T40) | FS2578 (T50) |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

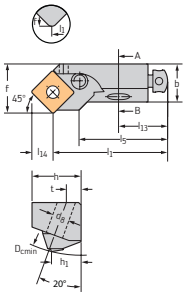
## Accessories

| | Type | SN .. 32 .. SN .. 0903 .. | SN .. 43 .. SN .. 1204 .. | SN .. 54 .. SN .. 1506 .. | SN .. 64 .. SN .. 1906 .. |
|---|---|---|---|---|---|
|  | Key ISO 2936 | | ISO2936-2.5 (SW 2.5) | | |
|  | Handle key, large | FS1175 (Torx 30) | FS1175 (T30) | | |
|  | Key ISO 2936 | ISO 2936-25 (SW 2.5) | | ISO2936-3 (SW 3.5) | ISO2936-4 (SW 4) |
|  | Handle key, large | | | FS1176 (T40) | FS2577 (T45) |

B 2

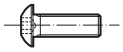
# ISO cartridge
# PSSN...CA

## Tool

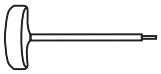
| | Designation | $h_1$ in | $l_{14}$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PSSNR12CA-12 | 0.472 | 0.327 | 0.610 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 1.496 | 1.181 | 0.236 | SN .. 43 ..<br>SN .. 1204 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | SN .. 43 ..<br>SN .. 1204 .. |
|---|---|---|
|  | Lever | KN109 |
|  | Clamping screw for indexable insert<br>Tightening torque | FS332 (SW 2.5)<br>22 in lbs |
|  | Adjusting screw, axial | FS335 |
|  | Adjusting screw, radial | FS333 (SW 2) |
|  | Fastening screw | FS977 (T30) |

## Accessories

| | Type | SN .. 43 ..<br>SN .. 1204 .. |
|---|---|---|
|  | ISO 2936 key | ISO2936-2.5 (SW 2.5) |
|  | Handle key | FS1175 (T30) |

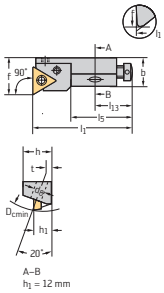
**WALTER SELECT**

●● Primary application ● Other application

Best tool for ➔ Good = ☺ ➔ Average = 😐 ➔ Poor = ☹ machining conditions

# ISO cartridge
# PTFN...CA

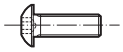
## Tool



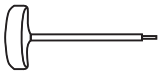

| Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PTFNL12CA-16 | 0.472 | 0.630 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.280 | 0.236 | TN .. 33 .. TN .. 1604 .. |
| PTFNR12CA-16 | 0.472 | 0.591 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.280 | 0.236 | |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | TN .. 33 .. TN .. 1604 .. |
|---|---|---|
|  | Lever | KN108 |
|  | Clamping screw for indexable insert<br>Tightening torque | FS331 (SW 2)<br>18 in lbs |
|  | Adjusting screw, axial | FS335 |
|  | Adjusting screw, radial | FS333 (SW 2) |
|  | Fastening screw | FS977 (T30) |

## Accessories

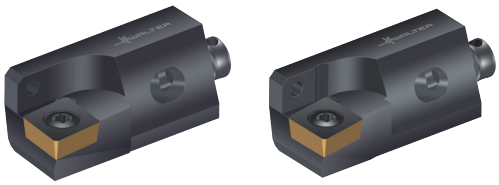
| | Type | TN .. 33 .. TN .. 1604 .. |
|---|---|---|
|  | ISO 2936 key | ISO2936-2 (SW 2.5) |
|  | Handle key | FS1175 (T30) |

**WALTER SELECT**

●● Primary application ● Other application

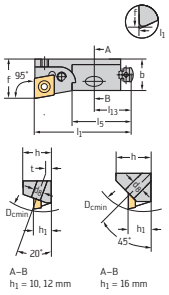
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# ISO cartridge
# SCFC...CA / SCLC...CA

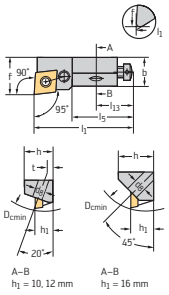


## Tool

| Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SCFCL10CA-09 | 0.394 | 0.433 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.969 | 1.299 | 0.197 | CC .. 3(2.5) .. CC .. 09T3 .. |
| SCFCL12CA-12 | 0.472 | 0.630 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.260 | 0.236 | CC .. 43 .. CC .. 1204 .. |
| SCFCR10CA-09 | 0.394 | 0.433 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.969 | 1.299 | 0.197 | CC .. 3(2.5) .. CC .. 09T3 .. |
| SCFCR12CA-12 | 0.472 | 0.630 | 1.969 | 0.276 | 0.787 | 0.787 | 0.787 | 2.165 | 1.260 | 0.236 | CC .. 43 .. CC .. 1204 .. |




| Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SCLCL10CA-09 | 0.016 | 0.017 | 0.062 | 0.011 | 0.031 | 0.022 | 0.023 | 0.078 | 0.051 | 0.008 | CC .. 3(2.5) .. CC .. 09T3 .. |
| SCLCR10CA-09 | 0.016 | 0.017 | 0.062 | 0.011 | 0.031 | 0.022 | 0.023 | 0.078 | 0.051 | 0.008 | |
| SCLCR12CA-12 | 0.019 | 0.025 | 0.078 | 0.011 | 0.031 | 0.031 | 0.031 | 0.085 | 0.050 | 0.009 | CC .. 43 .. CC .. 1204 .. |




Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | CC .. 3(2.5) .. CC .. 09T3 .. | CC .. 43 .. CC .. 1204 .. |
|---|---|---|
| Clamping screw for indexable insert Tightening torque | FS359 (T15) 22 in lbs | FS1029 (T20) 44 in lbs |
| Adjusting screw, radial | | FS334 (SW 2) |
| Adjusting screw, radial | FS369 (SW 2) | |
| Adjusting screw, axial | FS335 | FS335 |

## Accessories

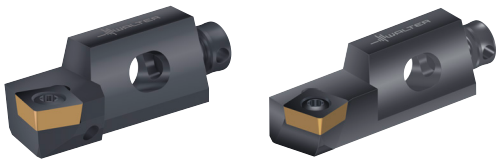
| Type | CC .. 3(2.5) .. CC .. 09T3 .. | CC .. 43 .. CC .. 1204 .. |
|---|---|---|
| ISO 7380 screw | | FS977 (T30) |
| ISO 7380 screw | FS976 (T30) | |
| Screwdriver | | FS228 (T20) |
| Screwdriver | FS229 (T15) | |

**WALTER SELECT**

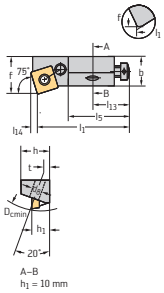
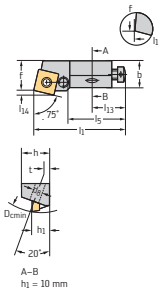
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# ISO cartridges
## SSKC-09...CA / SSRC-12...CA



## Tool

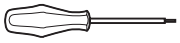
| | Designation | $h_1$ in | $l_{14}$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | SSKCR10CA-09 | 0.394 | 0.087 | 0.433 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.969 | 1.299 | 0.197 | SC .. 3(2.5)<br>SC .. 09T3 .. |
|  | SSRCR10CA-09 | 0.394 | 0 | 0.433 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.969 | 1.299 | 0.197 | SC .. 3(2.5) ..<br>SC .. 09T3 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | SC .. 3(2.5) ..<br>SC .. 09T3 .. |
|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS359 (T15)<br>22 in lbs |
|  | Adjusting screw, radial | FS369 (SW 2) |
|  | Adjusting screw, axial | FS335 |

## Accessories

| | Type | SC .. 3(2.5) ..<br>SC .. 09T3 .. |
|---|---|---|
|  | Screwdriver | FS229 (T15) |

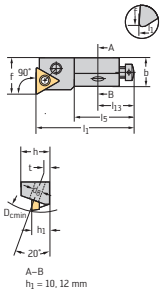
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# ISO cartridge
# STFC...CA

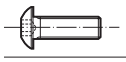
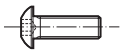
## Tool



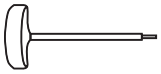
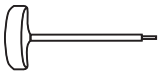

| Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STFCR08CA-09 | 0.315 | 0.260 | 0.984 | 0.177 | 0.669 | 0.394 | 0.370 | 1.260 | 0.866 | 0.177 | TC .. 1.8(1.5) .. TC .. 0902 .. |
| STFCR10CA-11 | 0.394 | 0.433 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.969 | 1.299 | 0.197 | TC .. 2(1.5) .. TC .. 1102 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| | Type | TC .. 1.8(1.5) .. TC .. 0902 .. | TC .. 2(1.5) .. TC .. 1102 .. |
|---|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS2149 (T7IP)<br>8 in lbs | FS375 (T7)<br>7 in lbs |
|  | Adjusting screw, axial | FS1023 | FS335 |
|  | Adjusting screw, radial | FS493 (SW 1.5) | FS369 (SW 2) |
|  | Fastening screw | FS2106 (T15IP) | |
|  | Fastening screw | | FS976 (T30) |

## Accessories

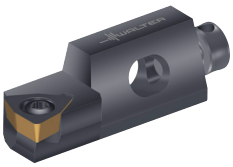
| | Type | TC .. 1.8(1.5) .. TC .. 0902 .. | TC .. 2(1.5) .. TC .. 1102 .. |
|---|---|---|---|
|  | Screwdriver | FS2088 (T7IP) | |
|  | Handle key | FS1485 (T15IP) | |
|  | Screwdriver | | FS309 (T7) |
|  | Handle key | | FS1175 (T30) |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# ISO cartridge
# SWFC...CA



## Tool

| Designation | $h_1$ in | b in | $D_{cmin}$ in | $d_8$ in | $l_{13}$ in | f in | h in | $l_1$ in | $l_5$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SWFCR10CA-06 | 0.394 | 0.433 | 1.575 | 0.276 | 0.787 | 0.551 | 0.591 | 1.969 | 1.299 | 0.197 | WC .. 3(2.5) .. WC .. 06T3 .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | WC .. 3(2.5) .. WC .. 06T3 .. |
|---|---|
| Clamping screw for indexable insert Tightening torque | FS359 (T15) 22 in lbs |
| Adjusting screw, radial | FS369 (SW 2) |
| Adjusting screw, axial | FS335 |

## Accessories

| Type | WC .. 3(2.5) .. WC .. 06T3 .. |
|---|---|
| ISO 7380 screw | FS976 (T30) |
| Screwdriver | FS229 (T15) |

**WALTER SELECT**

●● Primary application ● Other application

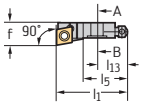
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

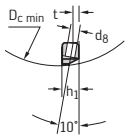
# Mini cartridge

B 2

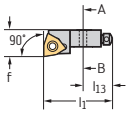
## Tool

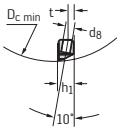
| Designation | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|
| FL671 | 0.787 | 0.382 | | 0.236 | 0.984 | | | WC .. 3(2.5) .. WC .. 06T3 .. |
| FR670 | 0.571 | 0.315 | | 0.236 | 0.984 | | | CP .. 1.8(1.5) .. CP .. 0502 .. |
| FR671 | 0.787 | 0.382 | | 0.236 | 0.984 | | | WC .. 3(2.5) .. WC .. 06T3 .. |




A–B




A–B

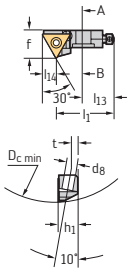
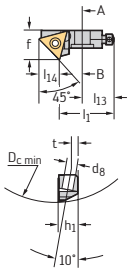
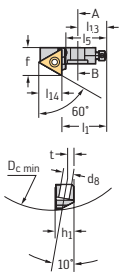
**WALTER SELECT**

●● Primary application ● Other application

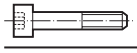
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Mini cartridge

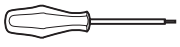
## Tool

| Designation | $l_{14}$ in | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|
|  FR675 | 0.205 | 0.787 | 0.425 | | 0.315 | 1.102 | | | TC .. 2(1.5) .. TC .. 1102 .. |
|  FL673 | 0.291 | 0.787 | 0.425 | | 0.315 | 1.102 | | | TC .. 2(1.5) .. TC .. 1102 .. |
| FR673 | 0.291 | 0.787 | 0.425 | | 0.315 | 1.102 | | | |
|  FR674 | 0.358 | 0.787 | 0.433 | | 0.315 | 1.102 | | | TC .. 2(1.5) .. TC .. 1102 .. |

## Assembly parts

| Type | TC .. 2(1.5) .. TC .. 1102 .. |
|---|---|
|  Clamping screw for indexable insert Tightening torque | FS375 (T7) 7 in lbs |
|  Adjusting screw, radial | FS494 (SW 1.5) |
|  Adjusting screw, axial | FS1023 |
|  Fastening screw | FS2106 (T15IP) |

## Accessories

| Type | TC .. 2(1.5) .. TC .. 1102 .. |
|---|---|
|  Schraubendreher | FS309 (T7) |

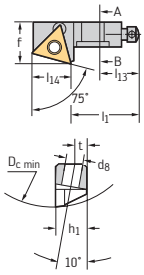
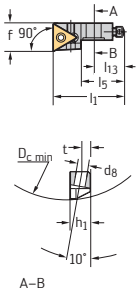
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Mini cartridge

## Tool

| Designation | $l_{14}$ in | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|
|  FR707 | 0.398 | 0.787 | 0.433 | | 0.315 | 1.102 | | | TC .. 2(1.5) .. TC .. 1102 .. |
|  FL672 | | 0.787 | 0.433 | | 0.315 | 1.102 | | | TC .. 2(1.5) .. TC .. 1102 .. |
| FR672 | | 0.787 | 0.433 | | 0.315 | 1.102 | | | |

B 2

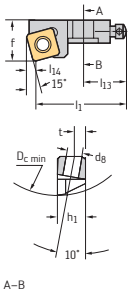
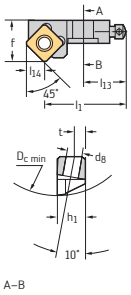
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

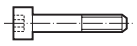
# Mini cartridge

## Tool

| Designation | $l_{14}$ in | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|
|  A–B | FR701 | 0.055 | 0.787 | 0.382 | | 0.236 | 0.984 | | | P284 . S-1N- .. |
|  A–B | FL704 | 0.181 | 0.984 | 0.453 | | 0.315 | 1.102 | | | P284 . S-2N- .. |
| | FR699 | 0.146 | 0.787 | 0.382 | | 0.236 | 0.984 | | | P284 . S-1N- .. |

Bodies and assembly parts are included in the scope of delivery

## Assembly parts

| Type | P284 . S-1N- .. | P284 . S-2N- .. |
|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS924 (T8)<br>7 in lbs | FS1005 (T8)<br>9 in lbs |
|  | Adjusting screw, radial | FS493 (SW 1.5) | FS494 (SW 1.5) |
|  | Adjusting screw, axial | FS1023 | FS1023 |
|  | Fastening screw | FS1024 (SW 2) | FS2106 (T15IP) |

## Accessories

| Type | P284 . S-1N- ..–P284 . S-2N- .. |
|---|---|
|  | Screwdriver | FS230 (T8) |

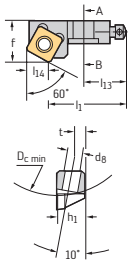
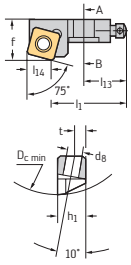
**WALTER SELECT**

●● Primary application ● Other application

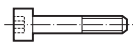
Best tool for ➔ Good = ☺ ➔ Average = 😐 ➔ Poor = ☹ machining conditions

# Mini cartridge

## Tool

| | Designation | $l_{14}$ in | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|---|
|  A–B | FR698 | 0.189 | 0.787 | 0.382 | | 0.236 | 0.984 | | | P284 . S-1N- .. |
|  A–B | FR697 | 0.217 | 0.787 | 0.382 | | 0.236 | 0.984 | | | P284 . S-1N- .. |

## Assembly parts

| | Type | P284 . S-1N- .. |
|---|---|---|
|  | Clamping screw for indexable insert<br>Tightening torque | FS924 (T8)<br>7 in lbs |
|  | Adjusting screw, radial | FS493 (SW 1.5) |
|  | Adjusting screw, axial | FS1023 |
|  | Fastening screw | FS1024 (SW 2) |

## Accessories

| | Type | P284 . S-1N- .. |
|---|---|---|
|  | Screwdriver | FS230 (T8) |

**WALTER SELECT**

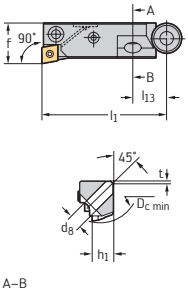
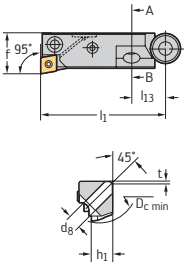
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Precision boring cartridge

B 2

## Tool

| Designation | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|
|  A–B | FL710 | 1.102 | 0.630 | | 0.335 | 1.791 | | WC .. 3(2.5) .. WC .. 06T3 .. |
| | FR710 | 1.102 | 0.630 | | 0.335 | 1.791 | | |
|  A–B | FL717 | 1.102 | 0.630 | | 0.335 | 1.791 | | WC .. 3(2.5) .. WC .. 06T3 .. |
| | FR717 | 1.102 | 0.630 | | 0.335 | 1.791 | | |

Bodies and assembly parts are included in the scope of delivery

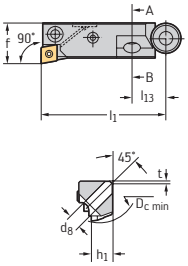
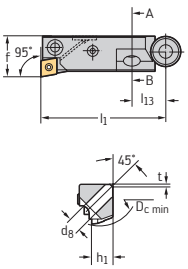
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Precision boring cartridge

## Tool

| | Designation | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|---|
|  A–B | FR761 | 1.102 | 0.63 | | 0.335 | 1.791 | | | WC .. 3(2.5) .. WC .. 06T3 .. |
|  A–B | FR763 | 1.102 | 0.63 | | 0.335 | 2.185 | | | WC .. 3(2.5) .. WC .. 06T3 .. |

Bodies and assembly parts are included in the scope of delivery

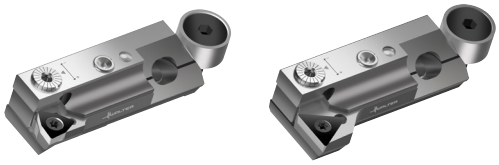
B 2

**WALTER SELECT**

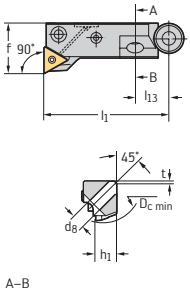
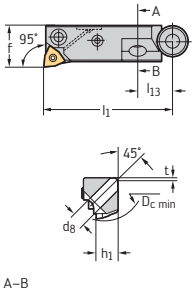
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Precision boring cartridge



## Tool

| Designation | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|
|  A–B | FL709 | 1.417 | 0.787 | | 0.335 | 1.791 | | TC .. 2(1.5) .. TC .. 1102 .. |
| | FR709 | 1.417 | 0.787 | | 0.335 | 1.791 | | |
|  A–B | FL711 | 1.102 | 0.63 | | 0.335 | 1.791 | | WC .. 2(1.5) .. WC .. 0402 .. |
| | FR711 | 1.102 | 0.63 | | 0.335 | 1.791 | | |

Bodies and assembly parts are included in the scope of delivery

**WALTER SELECT**

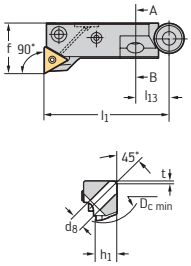
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Precision boring cartridge

## Tool

| Designation | $D_{cmin}$ in | f in | $d_8$ in | $h_1$ in | $l_1$ in | $l_{13}$ in | t in | Type |
|---|---|---|---|---|---|---|---|---|
| FR760 | 1.417 | 0.787 | | 0.335 | 1.791 | | | TC .. 2(1.5) .. TC .. 1102 .. |




A–B

Bodies and assembly parts are included in the scope of delivery

B 2

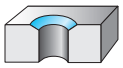
**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS core drills and countersinkers





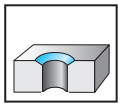
| Drilling depth | | | | | |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| **Designation** | E7819 | E7818 | E6819TIN | E6819 | E6818 |
| **Additional services** | | | | | |
| **Standard** | DIN 335 | DIN 334 | DIN 335 | DIN 335 | DIN 334 |
| **Coating / grade** | uncoated | uncoated | TIN | uncoated | uncoated |
| **Shank** | Morse taper | Morse taper | Cylindrical shank | Cylindrical shank | Cylindrical shank |
| **Diameter range [mm]** | 3.2–22 | 4–25 | 1.5–4.2 | 1.3–4.2 | 1.6–6.3 |
| **P** Steel | ●● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | ●● | ●● | ●● | ●● | ●● |
| **K** Cast iron | ●● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | ● | ● | ● | ● | ● |
| **H** Hard materials | | | | | |
| **O** Other | ●● | ●● | ●● | ●● | ●● |
| **Page in catalog** | **B 580** | **B 582** | **B 579** | **B 579** | **B 581** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | E7819 | E7818 | E6819TIN | E6819 | E6818 |

**WALTER SELECT**

●● Primary application ● Other application

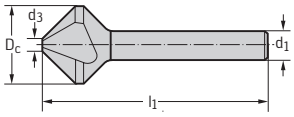
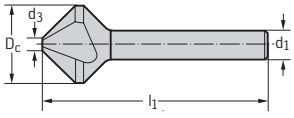
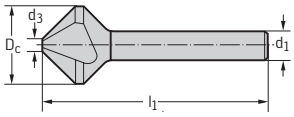
# 90° HSS countersinkers
# E6819 / E6819TIN

DIN 335



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ●● | ●● | ●● | ●● | ● | | ●● |
| TIN | ●● | ●● | ●● | ●● | ● | | ●● |

## Tool

| Designation | $D_c$ mm | $d_3$ mm | $l_1$ mm | $d_1$ mm |
|---|---|---|---|---|
|  Cylindrical shank | | | | |
| E6819-4.3 | 4.3 | 1.3 | 40 | 4 |
| E6819-5 | 5 | 1.5 | 40 | 4 |
| E6819-5.3 | 5.3 | 1.5 | 40 | 4 |
| E6819-5.8 | 5.8 | 1.5 | 45 | 5 |
| E6819-6 | 6 | 1.5 | 45 | 5 |
| E6819-6.3 | 6.3 | 1.5 | 45 | 5 |
| E6819-7 | 7 | 1.8 | 50 | 6 |
| E6819-7.3 | 7.3 | 1.8 | 50 | 6 |
| E6819-8 | 8 | 2 | 50 | 6 |
| E6819-8.3 | 8.3 | 2 | 50 | 6 |
| E6819-9.4 | 9.4 | 2.2 | 50 | 6 |
| E6819-10 | 10 | 2.5 | 50 | 6 |
| E6819-10.4 | 10.4 | 2.5 | 50 | 6 |
| E6819-11.5 | 11.5 | 2.8 | 56 | 8 |
| E6819-12.4 | 12.4 | 2.8 | 56 | 8 |
| E6819-13.4 | 13.4 | 2.9 | 56 | 8 |
| E6819-15 | 15 | 3.2 | 60 | 10 |
| E6819-16.5 | 16.5 | 3.2 | 60 | 10 |
| E6819-19 | 19 | 3.5 | 63 | 10 |
| E6819-20.5 | 20.5 | 3.5 | 63 | 10 |
| E6819-23 | 23 | 3.8 | 67 | 10 |
| E6819-25 | 25 | 3.8 | 67 | 10 |
| E6819-30 | 30 | 4.2 | 71 | 12 |
| E6819-31 | 31 | 4.2 | 71 | 12 |
|  Cylindrical shank | | | | |
| E6819TIN-6 | 6 | 1.5 | 45 | 5 |
| E6819TIN-6.3 | 6.3 | 1.5 | 45 | 5 |
| E6819TIN-7 | 7 | 1.8 | 50 | 6 |
| E6819TIN-8 | 8 | 2 | 50 | 6 |
| E6819TIN-8.3 | 8.3 | 2 | 50 | 6 |
| E6819TIN-10 | 10 | 2.5 | 50 | 6 |
| E6819TIN-10.4 | 10.4 | 2.5 | 50 | 6 |
| E6819TIN-11.5 | 11.5 | 2.8 | 56 | 8 |
| E6819TIN-12.4 | 12.4 | 2.8 | 56 | 8 |
| E6819TIN-15 | 15 | 3.2 | 60 | 10 |
| E6819TIN-16.5 | 16.5 | 3.2 | 60 | 10 |
|  Cylindrical shank | | | | |
| E6819TIN-19 | 19 | 3.5 | 63 | 10 |
| E6819TIN-20.5 | 20.5 | 3.5 | 63 | 10 |
| E6819TIN-23 | 23 | 3.8 | 67 | 10 |
| E6819TIN-25 | 25 | 3.8 | 67 | 10 |
| E6819TIN-31 | 31 | 4.2 | 71 | 12 |

**WALTER SELECT**

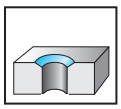
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# 90° HSS countersinkers

## E7819

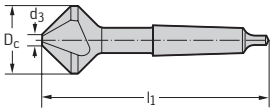
DIN 335



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

B 2

## Tool




Morse taper

| Designation | $D_c$ mm | $d_3$ mm | $l_1$ mm |
|---|---|---|---|
| E7819-15 | 15 | 3.2 | 85 |
| E7819-16.5 | 16.5 | 3.2 | 85 |
| E7819-19 | 19 | 3.5 | 100 |
| E7819-20.5 | 20.5 | 3.5 | 100 |
| E7819-23 | 23 | 3.8 | 106 |
| E7819-25 | 25 | 3.8 | 106 |
| E7819-26 | 26 | 3.8 | 106 |
| E7819-28 | 28 | 4 | 112 |
| E7819-30 | 30 | 4.2 | 112 |
| E7819-31 | 31 | 4.2 | 112 |
| E7819-34 | 34 | 4.5 | 118 |
| E7819-37 | 37 | 4.8 | 118 |
| E7819-40 | 40 | 10 | 140 |
| E7819-50 | 50 | 14 | 150 |
| E7819-63 | 63 | 16 | 180 |
| E7819-80 | 80 | 22 | 190 |

**WALTER SELECT**

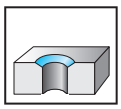
●● Primary application ● Other application

Best tool for → Good = → Average = → Poor = machining conditions

# 60° HSS countersinkers

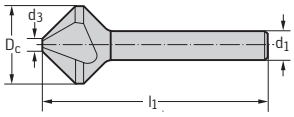
## E6818

DIN 334



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

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $d_3$ mm | $l_1$ mm | $d_1$ mm |
|---|---|---|---|---|
| E6818-6.3 | 6.3 | 1.6 | 45 | 5 |
| E6818-8 | 8 | 2 | 50 | 6 |
| E6818-12.5 | 12.5 | 3.2 | 56 | 8 |
| E6818-16 | 16 | 4 | 63 | 10 |
| E6818-20 | 20 | 5 | 67 | 10 |
| E6818-25 | 25 | 6.3 | 71 | 10 |

B 2

**WALTER SELECT**

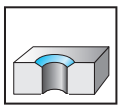
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

# 60° HSS countersinkers

## E7818

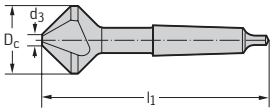
DIN 334



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

B 2

### Tool




Morse taper

| Designation | $D_c$ mm | $d_3$ mm | $l_1$ mm | $d_1$ mm |
|---|---|---|---|---|
| E7818-16 | 16 | 4 | 90 | |
| E7818-20 | 20 | 5 | 106 | |
| E7818-25 | 25 | 6.3 | 112 | |
| E7818-31.5 | 31.5 | 10 | 118 | |
| E7818-40 | 40 | 12.5 | 150 | |
| E7818-50 | 50 | 16 | 160 | |
| E7818-63 | 63 | 20 | 190 | |
| E7818-80 | 80 | 25 | 200 | |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

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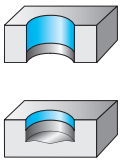
# B – Drilling

## B3: Reaming


| | | Page |
|---|---|---|
| **Solid carbide and HSS reamers** | Product range overview | |
| | Solid carbide and HSS reamers | 586 |
| | Order pages | |
| | Solid carbide and HSS reamers | 590 |

# Solid carbide and HSS reamers





| Drilling depth | | | | | |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| **Designation** | F3234 | F3234 | F2482TMS | F2482 | F2481TMS |
| **Additional services** | | | | | |
| **Standard** | DIN 2179 | DIN 2179 | Walter | Walter | Walter |
| **Coating / grade** | uncoated | uncoated | TMS | uncoated | TMS |
| **Shank** | Cylindrical shank | Cylindrical shank | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA |
| **Diameter range inch [mm]** | 0.079–0.472 [2–12] | 0.039–0.059 [1–1.5] | 0.156–0.787 [3.97–20] | 0.156–0.787 [3.97–20] | 0.156–0.787 [3.97–20] |
| **P** Steel | ●● | ●● | ●● | ● | ●● |
| **M** Stainless steel | | | | | |
| **K** Cast iron | ●● | ●● | ●● | ● | ●● |
| **N** NF metals | ●● | ●● | | ●● | |
| **S** Materials with difficult cutting properties | | | | | |
| **H** Hard materials | | | | | |
| **O** Other | ●● | ●● | | ●● | |
| **Page in catalog** | **B 627** | **B 627** | **B 590** | **B 590** | **B 593** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | F3234 | F3234 | F2482TMS | F2482 | F2481TMS |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide and HSS reamers



| | | | | | |
|---|---|---|---|---|---|
| |  | |  |  | |
| **Drilling depth** | | | | | |
| |  |  |  |  |  |
| **Designation** | F2481 | F2171 | F2162 | F1352HUN | F1352 |
| **Additional services** | | | | | |
| **Standard** | Walter | Walter | Walter | DIN 212 | DIN 212 |
| **Coating / grade** | uncoated | uncoated | uncoated | uncoated | uncoated |
| **Shank** | DIN 6535 HA | DIN 6535 HA | DIN 6535 HA | Cylindrical shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.156–0.787 [3.97–20] | 0.079–0.787 [2–20] | 0.157–0.787 [4–20] | 0.037–0.472 [0.95–12] | 0.035–0.787 [0.9–20] |
| **P** Steel | ● | ●● | ●● | ●● | ●● |
| **M** Stainless steel | | ●● | ●● | | |
| **K** Cast iron | ● | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | | ●● | ●● | | |
| **H** Hard materials | | ● | ● | | |
| **O** Other | ●● | ●● | ●● | ●● | ●● |
| **Page in catalog** | **B 593** | **B 596** | **B 597** | **B 598** | **B 621** |
| **QR code** | | | | | |
| www.walter-tools.com/woc/ | F2481 | F2171 | F2162 | F1352HUN | F1352 |

**WALTER SELECT**

●● Primary application ● Other application

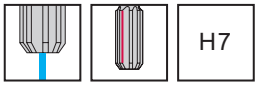
# Solid carbide and HSS reamers



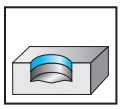
| | | | | |
|---|---|---|---|---|
| |  |   | | |
| **Drilling depth** | | | | |
| |  |  |  |  |
| **Designation** | F1342 | F1231 | F1231 | F1131 |
| **Additional services** | | | | |
| **Standard** | DIN 212 | DIN 859 | DIN 859 | DIN 206 |
| **Coating / grade** | uncoated | uncoated | uncoated | uncoated |
| **Shank** | Cylindrical shank | | Parallel shank | Cylindrical shank |
| **Diameter range inch [mm]** | 0.039–0.787 [1–20] | 0.315–1.102 [8–28] | 0.512–1.181 [13–30] | 0.039–1.260 [1–32] |
| **P** Steel | ●● | ●● | ●● | ●● |
| **M** Stainless steel | | | | |
| **K** Cast iron | ●● | ●● | ●● | ●● |
| **N** NF metals | ●● | ●● | ●● | ●● |
| **S** Materials with difficult cutting properties | | | | |
| **H** Hard materials | | | | |
| **O** Other | ●● | ●● | ●● | ●● |
| **Page in catalog** | **B 624** | **B 628** | **B 628** | **B 629** |
| **QR code** |  |  |  |  |
| www.walter-tools.com/woc/ | F1342 | F1231 | F1231 | F1131 |

**WALTER SELECT** ●● Primary application ● Other application

# Solid carbide HSC reamers
# F2482 / F2482TMS

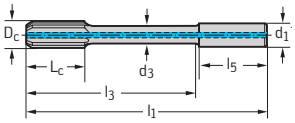



– Tolerance for 1/100 size: +0.004 mm



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ● | | ● | ●● | | | ●● |
| TMS | ●● | | ●● | ●● | | | ●● |

## Tool




DIN 6535 HA

B 3

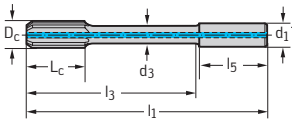
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2482-3.97 | 3.97 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-3.98 | 3.98 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-3.99 | 3.99 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4 | 4 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.01 | 4.01 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.02 | 4.02 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.03 | 4.03 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.5 | 4.5 | 12 | 75 | 34 | 36 | 6 | 4 | 4 |
| F2482-4.97 | 4.97 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-4.98 | 4.98 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-4.99 | 4.99 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5 | 5 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.01 | 5.01 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.02 | 5.02 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.03 | 5.03 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.5 | 5.5 | 12 | 75 | 35 | 36 | 6 | 4.9 | 4 |
| F2482-5.97 | 5.97 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-5.98 | 5.98 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-5.99 | 5.99 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6 | 6 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.01 | 6.01 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.02 | 6.02 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.03 | 6.03 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.5 | 6.5 | 16 | 100 | 59 | 36 | 8 | 5.7 | 6 |
| F2482-7 | 7 | 16 | 100 | 59 | 36 | 8 | 6.2 | 6 |
| F2482-7.5 | 7.5 | 16 | 100 | 60 | 36 | 8 | 6.7 | 6 |
| F2482-7.97 | 7.97 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-7.98 | 7.98 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-7.99 | 7.99 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8 | 8 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.01 | 8.01 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.02 | 8.02 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.03 | 8.03 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.5 | 8.5 | 20 | 100 | 55 | 40 | 10 | 7.7 | 6 |
| F2482-9 | 9 | 20 | 100 | 55 | 40 | 10 | 8.2 | 6 |

**WALTER SELECT**

●● Primary application ● Other application

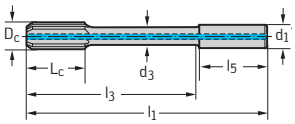
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

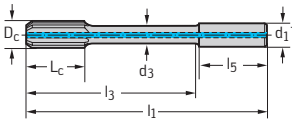
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2482-9.5 | 9.5 | 20 | 120 | 76 | 40 | 10 | 8.7 | 6 |
| F2482-9.97 | 9.97 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-9.98 | 9.98 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-9.99 | 9.99 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10 | 10 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.01 | 10.01 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.02 | 10.02 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.03 | 10.03 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.5 | 10.5 | 20 | 120 | 70 | 45 | 12 | 9.5 | 6 |
| F2482-11 | 11 | 20 | 120 | 70 | 45 | 12 | 10 | 6 |
| F2482-11.5 | 11.5 | 20 | 120 | 71 | 45 | 12 | 10.5 | 6 |
| F2482-11.97 | 11.97 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-11.98 | 11.98 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-11.99 | 11.99 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12 | 12 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12.01 | 12.01 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12.02 | 12.02 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12.03 | 12.03 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-13 | 13 | 22 | 130 | 80 | 45 | 14 | 11.5 | 6 |
| F2482-14 | 14 | 22 | 130 | 80 | 45 | 14 | 12.5 | 6 |
| F2482-15 | 15 | 22 | 130 | 77 | 48 | 16 | 13.5 | 6 |
| F2482-16 | 16 | 25 | 150 | 97 | 48 | 16 | 14.2 | 6 |
| F2482-17 | 17 | 25 | 150 | 97 | 48 | 18 | 15.2 | 8 |
| F2482-18 | 18 | 25 | 150 | 97 | 48 | 18 | 16.2 | 8 |
| F2482-19 | 19 | 25 | 150 | 95 | 50 | 20 | 17.2 | 8 |
| F2482-20 | 20 | 25 | 150 | 95 | 50 | 20 | 18.2 | 8 |




DIN 6535 HA

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2482-3.97 | 3.97 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-3.98 | 3.98 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-3.99 | 3.99 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4 | 4 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.01 | 4.01 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.02 | 4.02 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.03 | 4.03 | 12 | 75 | 34 | 36 | 6 | 3.5 | 4 |
| F2482-4.5 | 4.5 | 12 | 75 | 34 | 36 | 6 | 4 | 4 |
| F2482-4.97 | 4.97 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-4.98 | 4.98 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-4.99 | 4.99 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5 | 5 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.01 | 5.01 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.02 | 5.02 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.03 | 5.03 | 12 | 75 | 35 | 36 | 6 | 4.4 | 4 |
| F2482-5.5 | 5.5 | 12 | 75 | 35 | 36 | 6 | 4.9 | 4 |
| F2482-5.97 | 5.97 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-5.98 | 5.98 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-5.99 | 5.99 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6 | 6 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.01 | 6.01 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.02 | 6.02 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |

## Tool

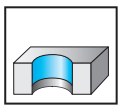



DIN 6535 HA

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2482-6.03 | 6.03 | 12 | 75 | 35 | 36 | 6 | 5.3 | 4 |
| F2482-6.5 | 6.5 | 16 | 100 | 59 | 36 | 8 | 5.7 | 6 |
| F2482-7 | 7 | 16 | 100 | 59 | 36 | 8 | 6.2 | 6 |
| F2482-7.5 | 7.5 | 16 | 100 | 60 | 36 | 8 | 6.7 | 6 |
| F2482-7.97 | 7.97 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-7.98 | 7.98 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-7.99 | 7.99 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8 | 8 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.01 | 8.01 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.02 | 8.02 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.03 | 8.03 | 16 | 100 | 60 | 36 | 8 | 7.2 | 6 |
| F2482-8.5 | 8.5 | 20 | 100 | 55 | 40 | 10 | 7.7 | 6 |
| F2482-9 | 9 | 20 | 100 | 55 | 40 | 10 | 8.2 | 6 |
| F2482-9.5 | 9.5 | 20 | 120 | 76 | 40 | 10 | 8.7 | 6 |
| F2482-9.97 | 9.97 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-9.98 | 9.98 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-9.99 | 9.99 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10 | 10 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.01 | 10.01 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.02 | 10.02 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.03 | 10.03 | 20 | 120 | 76 | 40 | 10 | 9 | 6 |
| F2482-10.5 | 10.5 | 20 | 120 | 70 | 45 | 12 | 9.5 | 6 |
| F2482-11 | 11 | 20 | 120 | 70 | 45 | 12 | 10 | 6 |
| F2482-11.5 | 11.5 | 20 | 120 | 71 | 45 | 12 | 10.5 | 6 |
| F2482-11.97 | 11.97 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-11.98 | 11.98 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-11.99 | 11.99 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12 | 12 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12.01 | 12.01 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12.02 | 12.02 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-12.03 | 12.03 | 20 | 120 | 71 | 45 | 12 | 11 | 6 |
| F2482-13 | 13 | 22 | 130 | 80 | 45 | 14 | 11.5 | 6 |
| F2482-14 | 14 | 22 | 130 | 80 | 45 | 14 | 12.5 | 6 |
| F2482-15 | 15 | 22 | 130 | 77 | 48 | 16 | 13.5 | 6 |
| F2482-16 | 16 | 25 | 150 | 97 | 48 | 16 | 14.2 | 6 |
| F2482-17 | 17 | 25 | 150 | 97 | 48 | 18 | 15.2 | 8 |
| F2482-18 | 18 | 25 | 150 | 97 | 48 | 18 | 16.2 | 8 |
| F2482-19 | 19 | 25 | 150 | 95 | 50 | 20 | 17.2 | 8 |
| F2482-20 | 20 | 25 | 150 | 95 | 50 | 20 | 18.2 | 8 |

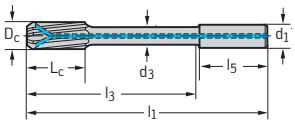
# Solid carbide HSC reamers
# F2481 / F2481TMS


– Tolerance for 1/100 size: +0.004 mm



| | P | M | K | N | S | H | O |
|---|---|---|---|---|---|---|---|
| uncoated | ● | | ● | ●● | | | ●● |
| TMS | ●● | | ●● | ●● | | | ●● |

## Tool




DIN 6535 HA

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2481-3.97 | 3.97 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-3.98 | 3.98 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-3.99 | 3.99 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4 | 4 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.01 | 4.01 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.02 | 4.02 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.03 | 4.03 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.5 | 4.5 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.97 | 4.97 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-4.98 | 4.98 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-4.99 | 4.99 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5 | 5 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.01 | 5.01 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.02 | 5.02 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.03 | 5.03 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.5 | 5.5 | 12 | 75 | 35 | 36 | 6 | 4.2 | 4 |
| F2481-5.97 | 5.97 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-5.98 | 5.98 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-5.99 | 5.99 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6 | 6 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.01 | 6.01 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.02 | 6.02 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.03 | 6.03 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.5 | 6.5 | 16 | 100 | 59 | 36 | 8 | 4.8 | 6 |
| F2481-7 | 7 | 16 | 100 | 59 | 36 | 8 | 5 | 6 |
| F2481-7.5 | 7.5 | 16 | 100 | 60 | 36 | 8 | 5.5 | 6 |
| F2481-7.97 | 7.97 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-7.98 | 7.98 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-7.99 | 7.99 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8 | 8 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.01 | 8.01 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.02 | 8.02 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.03 | 8.03 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.5 | 8.5 | 20 | 100 | 55 | 40 | 10 | 6.5 | 6 |
| F2481-9 | 9 | 20 | 100 | 55 | 40 | 10 | 7 | 6 |

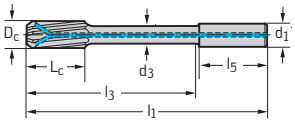


**WALTER SELECT**

●● Primary application ● Other application

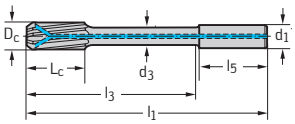
Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

## Tool




DIN 6535 HA

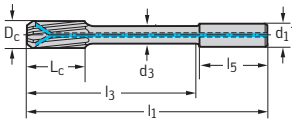
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2481-9.5 | 9.5 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-9.97 | 9.97 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-9.98 | 9.98 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-9.99 | 9.99 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10 | 10 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.01 | 10.01 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.02 | 10.02 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.03 | 10.03 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.5 | 10.5 | 20 | 120 | 70 | 45 | 12 | 8 | 6 |
| F2481-11 | 11 | 20 | 120 | 70 | 45 | 12 | 8.5 | 6 |
| F2481-11.5 | 11.5 | 20 | 120 | 71 | 45 | 12 | 8.5 | 6 |
| F2481-11.97 | 11.97 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-11.98 | 11.98 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-11.99 | 11.99 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12 | 12 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12.01 | 12.01 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12.02 | 12.02 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12.03 | 12.03 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-13 | 13 | 22 | 130 | 80 | 45 | 14 | 10 | 6 |
| F2481-14 | 14 | 22 | 130 | 80 | 45 | 14 | 10.5 | 6 |
| F2481-15 | 15 | 22 | 130 | 77 | 48 | 16 | 11.5 | 6 |
| F2481-16 | 16 | 25 | 150 | 97 | 48 | 16 | 12 | 6 |
| F2481-17 | 17 | 25 | 150 | 97 | 48 | 18 | 13 | 8 |
| F2481-18 | 18 | 25 | 150 | 97 | 48 | 18 | 13.5 | 8 |
| F2481-19 | 19 | 25 | 150 | 95 | 50 | 20 | 14 | 8 |
| F2481-20 | 20 | 25 | 150 | 95 | 50 | 20 | 14.5 | 8 |




DIN 6535 HA

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| F2481-3.97 | 3.97 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-3.98 | 3.98 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-3.99 | 3.99 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4 | 4 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.01 | 4.01 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.02 | 4.02 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.03 | 4.03 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.5 | 4.5 | 12 | 75 | 34 | 36 | 6 | 3.4 | 4 |
| F2481-4.97 | 4.97 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-4.98 | 4.98 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-4.99 | 4.99 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5 | 5 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.01 | 5.01 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.02 | 5.02 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.03 | 5.03 | 12 | 75 | 35 | 36 | 6 | 3.8 | 4 |
| F2481-5.5 | 5.5 | 12 | 75 | 35 | 36 | 6 | 4.2 | 4 |
| F2481-5.97 | 5.97 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-5.98 | 5.98 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-5.99 | 5.99 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6 | 6 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.01 | 6.01 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.02 | 6.02 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |

## Tool




DIN 6535 HA

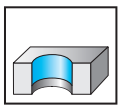
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_3$ mm | $l_5$ mm | h6 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|---|
| F2481-6.03 | 6.03 | 12 | 75 | 35 | 36 | 6 | 4.5 | 4 |
| F2481-6.5 | 6.5 | 16 | 100 | 59 | 36 | 8 | 4.8 | 6 |
| F2481-7 | 7 | 16 | 100 | 59 | 36 | 8 | 5 | 6 |
| F2481-7.5 | 7.5 | 16 | 100 | 60 | 36 | 8 | 5.5 | 6 |
| F2481-7.97 | 7.97 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-7.98 | 7.98 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-7.99 | 7.99 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8 | 8 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.01 | 8.01 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.02 | 8.02 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.03 | 8.03 | 16 | 100 | 60 | 36 | 8 | 6 | 6 |
| F2481-8.5 | 8.5 | 20 | 100 | 55 | 40 | 10 | 6.5 | 6 |
| F2481-9 | 9 | 20 | 100 | 55 | 40 | 10 | 7 | 6 |
| F2481-9.5 | 9.5 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-9.97 | 9.97 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-9.98 | 9.98 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-9.99 | 9.99 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10 | 10 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.01 | 10.01 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.02 | 10.02 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.03 | 10.03 | 20 | 120 | 76 | 40 | 10 | 7.5 | 6 |
| F2481-10.5 | 10.5 | 20 | 120 | 70 | 45 | 12 | 8 | 6 |
| F2481-11 | 11 | 20 | 120 | 70 | 45 | 12 | 8.5 | 6 |
| F2481-11.5 | 11.5 | 20 | 120 | 71 | 45 | 12 | 8.5 | 6 |
| F2481-11.97 | 11.97 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-11.98 | 11.98 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-11.99 | 11.99 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12 | 12 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12.01 | 12.01 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12.02 | 12.02 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-12.03 | 12.03 | 20 | 120 | 71 | 45 | 12 | 9 | 6 |
| F2481-13 | 13 | 22 | 130 | 80 | 45 | 14 | 10 | 6 |
| F2481-14 | 14 | 22 | 130 | 80 | 45 | 14 | 10.5 | 6 |
| F2481-15 | 15 | 22 | 130 | 77 | 48 | 16 | 11.5 | 6 |
| F2481-16 | 16 | 25 | 150 | 97 | 48 | 16 | 12 | 6 |
| F2481-17 | 17 | 25 | 150 | 97 | 48 | 18 | 13 | 8 |
| F2481-18 | 18 | 25 | 150 | 97 | 48 | 18 | 13.5 | 8 |
| F2481-19 | 19 | 25 | 150 | 95 | 50 | 20 | 14 | 8 |
| F2481-20 | 20 | 25 | 150 | 95 | 50 | 20 | 14.5 | 8 |

# Carbide machine reamers

## F2171

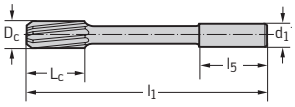
– Up to dia. 13 mm solid carbide, greater than dia. 13 mm solid carbide head

H7



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

### Tool




DIN 6535 HA

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h6 | Z |
|---|---|---|---|---|---|---|
| F2171-2 | 2 | 12 | 49 | 28 | 4 | 4 |
| F2171-2.5 | 2.5 | 16 | 59 | 28 | 4 | 4 |
| F2171-3 | 3 | 17 | 63 | 28 | 4 | 6 |
| F2171-3.2 | 3.2 | 18 | 65 | 28 | 4 | 6 |
| F2171-3.5 | 3.5 | 18 | 70 | 28 | 4 | 6 |
| F2171-4 | 4 | 19 | 75 | 28 | 4 | 6 |
| F2171-4.5 | 4.5 | 21 | 80 | 36 | 6 | 6 |
| F2171-5 | 5 | 23 | 86 | 36 | 6 | 6 |
| F2171-5.5 | 5.5 | 26 | 93 | 36 | 6 | 6 |
| F2171-6 | 6 | 26 | 93 | 36 | 6 | 6 |
| F2171-6.5 | 6.5 | 28 | 101 | 36 | 6 | 6 |
| F2171-7 | 7 | 31 | 109 | 36 | 8 | 6 |
| F2171-7.5 | 7.5 | 31 | 109 | 36 | 8 | 6 |
| F2171-8 | 8 | 33 | 117 | 36 | 8 | 6 |
| F2171-8.5 | 8.5 | 33 | 117 | 36 | 8 | 6 |
| F2171-9 | 9 | 36 | 125 | 40 | 10 | 6 |
| F2171-10 | 10 | 38 | 133 | 40 | 10 | 6 |
| F2171-11 | 11 | 41 | 142 | 45 | 12 | 6 |
| F2171-12 | 12 | 44 | 151 | 45 | 12 | 6 |
| F2171-13 | 13 | 44 | 151 | 45 | 12 | 6 |
| F2171-14 | 14 | 47 | 160 | 48 | 16 | 8 |
| F2171-15 | 15 | 50 | 162 | 48 | 16 | 8 |
| F2171-16 | 16 | 52 | 170 | 48 | 16 | 8 |
| F2171-18 | 18 | 52 | 182 | 48 | 18 | 8 |
| F2171-20 | 20 | 52 | 195 | 50 | 20 | 8 |

Dimensions similar to DIN 8093

**WALTER SELECT**

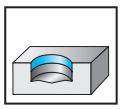
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# Carbide machine reamers

## F2162

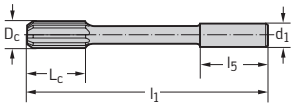
– Up to dia. 13 mm solid carbide, greater than dia. 13 mm solid carbide head



H7

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

### Tool




DIN 6535 HA

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h6 | Z |
|---|---|---|---|---|---|---|
| F2162-4 | 4 | 19 | 75 | 28 | 4 | 6 |
| F2162-4.5 | 4.5 | 21 | 80 | 36 | 6 | 6 |
| F2162-5 | 5 | 23 | 86 | 36 | 6 | 6 |
| F2162-5.5 | 5.5 | 26 | 93 | 36 | 6 | 6 |
| F2162-6 | 6 | 26 | 93 | 36 | 6 | 6 |
| F2162-6.5 | 6.5 | 28 | 101 | 36 | 6 | 6 |
| F2162-7 | 7 | 31 | 109 | 36 | 8 | 6 |
| F2162-7.5 | 7.5 | 31 | 109 | 36 | 8 | 6 |
| F2162-8 | 8 | 33 | 117 | 36 | 8 | 6 |
| F2162-8.5 | 8.5 | 33 | 117 | 36 | 8 | 6 |
| F2162-9 | 9 | 36 | 125 | 40 | 10 | 6 |
| F2162-9.5 | 9.5 | 36 | 125 | 40 | 10 | 6 |
| F2162-10 | 10 | 38 | 133 | 40 | 10 | 6 |
| F2162-11 | 11 | 41 | 142 | 45 | 12 | 6 |
| F2162-12 | 12 | 44 | 151 | 45 | 12 | 6 |
| F2162-13 | 13 | 44 | 151 | 45 | 12 | 6 |
| F2162-14 | 14 | 47 | 160 | 48 | 16 | 8 |
| F2162-15 | 15 | 50 | 162 | 48 | 16 | 8 |
| F2162-16 | 16 | 52 | 170 | 48 | 16 | 8 |
| F2162-17 | 17 | 52 | 175 | 48 | 18 | 8 |
| F2162-18 | 18 | 52 | 182 | 48 | 18 | 8 |
| F2162-20 | 20 | 52 | 195 | 50 | 20 | 8 |

Dimensions similar to DIN 8093

B 3

**WALTER SELECT**

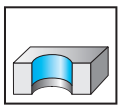
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS machine reamers
# F1352HUN

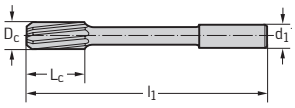
– Walter standard up to dia. 3.75 mm with centring tips
– Diameter increment = 0.01 mm

DIN 212



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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-0.95 | 0.95 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-0.97 | 0.97 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-0.98 | 0.98 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-0.99 | 0.99 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1 | 1 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.01 | 1.01 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.02 | 1.02 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.03 | 1.03 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.04 | 1.04 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.05 | 1.05 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.06 | 1.06 | 6 | 34 | 19 | 1 | 3 |
| F1352HUN-1.07 | 1.07 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.08 | 1.08 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.09 | 1.09 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.11 | 1.11 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.12 | 1.12 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.13 | 1.13 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.14 | 1.14 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.15 | 1.15 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.16 | 1.16 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.17 | 1.17 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.18 | 1.18 | 7 | 36 | 20.5 | 1 | 3 |
| F1352HUN-1.19 | 1.19 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.2 | 1.2 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.21 | 1.21 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.22 | 1.22 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.23 | 1.23 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.24 | 1.24 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.25 | 1.25 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.26 | 1.26 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.27 | 1.27 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.28 | 1.28 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.29 | 1.29 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.3 | 1.3 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.31 | 1.31 | 8 | 38 | 21.5 | 1 | 3 |

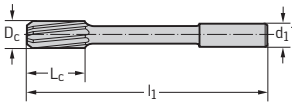
B 3

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

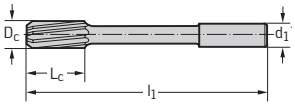
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-1.32 | 1.32 | 8 | 38 | 21.5 | 1 | 3 |
| F1352HUN-1.33 | 1.33 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.34 | 1.34 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.35 | 1.35 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.36 | 1.36 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.37 | 1.37 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.38 | 1.38 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.39 | 1.39 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.4 | 1.4 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.41 | 1.41 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.42 | 1.42 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.43 | 1.43 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.44 | 1.44 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.45 | 1.45 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.46 | 1.46 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.47 | 1.47 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.48 | 1.48 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.49 | 1.49 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.5 | 1.5 | 8 | 40 | 22 | 1 | 3 |
| F1352HUN-1.51 | 1.51 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.52 | 1.52 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.53 | 1.53 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.54 | 1.54 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.55 | 1.55 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.56 | 1.56 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.57 | 1.57 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.58 | 1.58 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.59 | 1.59 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.6 | 1.6 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.61 | 1.61 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.62 | 1.62 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.63 | 1.63 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.64 | 1.64 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.65 | 1.65 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.66 | 1.66 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.67 | 1.67 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.68 | 1.68 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.69 | 1.69 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.7 | 1.7 | 9 | 43 | 23 | 2 | 3 |
| F1352HUN-1.71 | 1.71 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.72 | 1.72 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.73 | 1.73 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.74 | 1.74 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.75 | 1.75 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.76 | 1.76 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.77 | 1.77 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.78 | 1.78 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.79 | 1.79 | 10 | 46 | 24 | 2 | 4 |

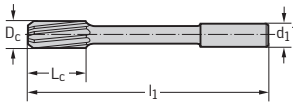
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-1.8 | 1.8 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.81 | 1.81 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.82 | 1.82 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.83 | 1.83 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.84 | 1.84 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.85 | 1.85 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.86 | 1.86 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.87 | 1.87 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.88 | 1.88 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.89 | 1.89 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.9 | 1.9 | 10 | 46 | 24 | 2 | 4 |
| F1352HUN-1.91 | 1.91 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.92 | 1.92 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.93 | 1.93 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.94 | 1.94 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.95 | 1.95 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.96 | 1.96 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.97 | 1.97 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.98 | 1.98 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-1.99 | 1.99 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2 | 2 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.01 | 2.01 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.02 | 2.02 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.03 | 2.03 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.04 | 2.04 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.05 | 2.05 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.06 | 2.06 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.07 | 2.07 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.08 | 2.08 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.09 | 2.09 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.1 | 2.1 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.11 | 2.11 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.12 | 2.12 | 11 | 49 | 25 | 2 | 4 |
| F1352HUN-2.13 | 2.13 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.14 | 2.14 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.15 | 2.15 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.16 | 2.16 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.17 | 2.17 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.18 | 2.18 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.19 | 2.19 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.2 | 2.2 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.21 | 2.21 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.22 | 2.22 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.23 | 2.23 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.24 | 2.24 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.25 | 2.25 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.26 | 2.26 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.27 | 2.27 | 12 | 53 | 27 | 2 | 4 |

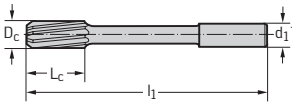
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-2.28 | 2.28 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.29 | 2.29 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.3 | 2.3 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.31 | 2.31 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.32 | 2.32 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.33 | 2.33 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.34 | 2.34 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.35 | 2.35 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.36 | 2.36 | 12 | 53 | 27 | 2 | 4 |
| F1352HUN-2.37 | 2.37 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.38 | 2.38 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.39 | 2.39 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.4 | 2.4 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.41 | 2.41 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.42 | 2.42 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.43 | 2.43 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.44 | 2.44 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.45 | 2.45 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.46 | 2.46 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.47 | 2.47 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.48 | 2.48 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.49 | 2.49 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.5 | 2.5 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.51 | 2.51 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.52 | 2.52 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.53 | 2.53 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.54 | 2.54 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.55 | 2.55 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.56 | 2.56 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.57 | 2.57 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.58 | 2.58 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.59 | 2.59 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.6 | 2.6 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.61 | 2.61 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.62 | 2.62 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.63 | 2.63 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.64 | 2.64 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.65 | 2.65 | 14 | 57 | 29 | 3 | 4 |
| F1352HUN-2.66 | 2.66 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.67 | 2.67 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.68 | 2.68 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.69 | 2.69 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.7 | 2.7 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.71 | 2.71 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.72 | 2.72 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.73 | 2.73 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.74 | 2.74 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.75 | 2.75 | 15 | 61 | 29 | 3 | 6 |

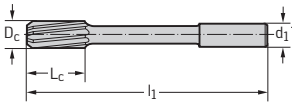
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-2.76 | 2.76 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.77 | 2.77 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.78 | 2.78 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.79 | 2.79 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.8 | 2.8 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.81 | 2.81 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.82 | 2.82 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.83 | 2.83 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.84 | 2.84 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.85 | 2.85 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.86 | 2.86 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.87 | 2.87 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.88 | 2.88 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.89 | 2.89 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.9 | 2.9 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.91 | 2.91 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.92 | 2.92 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.93 | 2.93 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.94 | 2.94 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.95 | 2.95 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.96 | 2.96 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.97 | 2.97 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.98 | 2.98 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-2.99 | 2.99 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-3 | 3 | 15 | 61 | 29 | 3 | 6 |
| F1352HUN-3.01 | 3.01 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.02 | 3.02 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.03 | 3.03 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.04 | 3.04 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.05 | 3.05 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.06 | 3.06 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.07 | 3.07 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.08 | 3.08 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.09 | 3.09 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.1 | 3.1 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.11 | 3.11 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.12 | 3.12 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.13 | 3.13 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.14 | 3.14 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.15 | 3.15 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.16 | 3.16 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.17 | 3.17 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.18 | 3.18 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.19 | 3.19 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.2 | 3.2 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.21 | 3.21 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.22 | 3.22 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.23 | 3.23 | 16 | 65 | 30 | 3 | 6 |

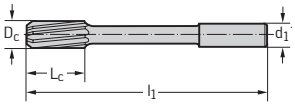
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-3.24 | 3.24 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.25 | 3.25 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.26 | 3.26 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.27 | 3.27 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.28 | 3.28 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.29 | 3.29 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.3 | 3.3 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.31 | 3.31 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.32 | 3.32 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.33 | 3.33 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.34 | 3.34 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.35 | 3.35 | 16 | 65 | 30 | 3 | 6 |
| F1352HUN-3.36 | 3.36 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.37 | 3.37 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.38 | 3.38 | 18 | 70 | 30 | 3 | 6 |
| F1352HUN-3.39 | 3.39 | 18 | 70 | 30 | 3 | 6 |
| F1352HUN-3.4 | 3.4 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.41 | 3.41 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.42 | 3.42 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.43 | 3.43 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.44 | 3.44 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.45 | 3.45 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.46 | 3.46 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.47 | 3.47 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.48 | 3.48 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.49 | 3.49 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.5 | 3.5 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.51 | 3.51 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.52 | 3.52 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.53 | 3.53 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.54 | 3.54 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.55 | 3.55 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.56 | 3.56 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.57 | 3.57 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.58 | 3.58 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.59 | 3.59 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.61 | 3.61 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.62 | 3.62 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.63 | 3.63 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.64 | 3.64 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.65 | 3.65 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.66 | 3.66 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.67 | 3.67 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.68 | 3.68 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.69 | 3.69 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.71 | 3.71 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.72 | 3.72 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.73 | 3.73 | 18 | 70 | 30 | 4 | 6 |

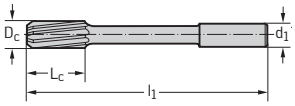
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-3.74 | 3.74 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.75 | 3.75 | 18 | 70 | 30 | 4 | 6 |
| F1352HUN-3.76 | 3.76 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.77 | 3.77 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.78 | 3.78 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.79 | 3.79 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.81 | 3.81 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.82 | 3.82 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.83 | 3.83 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.84 | 3.84 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.85 | 3.85 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.86 | 3.86 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.87 | 3.87 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.88 | 3.88 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.89 | 3.89 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.9 | 3.9 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.91 | 3.91 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.92 | 3.92 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.93 | 3.93 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.94 | 3.94 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.95 | 3.95 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.96 | 3.96 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.97 | 3.97 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.98 | 3.98 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-3.99 | 3.99 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4 | 4 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.01 | 4.01 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.02 | 4.02 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.03 | 4.03 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.04 | 4.04 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.05 | 4.05 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.06 | 4.06 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.07 | 4.07 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.08 | 4.08 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.09 | 4.09 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.1 | 4.1 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.11 | 4.11 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.12 | 4.12 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.13 | 4.13 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.14 | 4.14 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.15 | 4.15 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.16 | 4.16 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.17 | 4.17 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.18 | 4.18 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.19 | 4.19 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.2 | 4.2 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.21 | 4.21 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.22 | 4.22 | 19 | 75 | 32 | 4 | 6 |

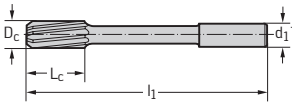
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-4.23 | 4.23 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.24 | 4.24 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.25 | 4.25 | 19 | 75 | 32 | 4 | 6 |
| F1352HUN-4.26 | 4.26 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.27 | 4.27 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.28 | 4.28 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.29 | 4.29 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.3 | 4.3 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.31 | 4.31 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.32 | 4.32 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.33 | 4.33 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.34 | 4.34 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.35 | 4.35 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.36 | 4.36 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.37 | 4.37 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.38 | 4.38 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.39 | 4.39 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.41 | 4.41 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.42 | 4.42 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.43 | 4.43 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.44 | 4.44 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.45 | 4.45 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.46 | 4.46 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.47 | 4.47 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.48 | 4.48 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.49 | 4.49 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.5 | 4.5 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.51 | 4.51 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.52 | 4.52 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.53 | 4.53 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.54 | 4.54 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.55 | 4.55 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.56 | 4.56 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.57 | 4.57 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.58 | 4.58 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.59 | 4.59 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.61 | 4.61 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.62 | 4.62 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.63 | 4.63 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.64 | 4.64 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.65 | 4.65 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.66 | 4.66 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.67 | 4.67 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.68 | 4.68 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.69 | 4.69 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.71 | 4.71 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.72 | 4.72 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.73 | 4.73 | 21 | 80 | 33 | 5 | 6 |

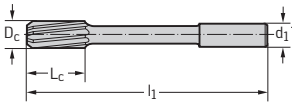
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-4.74 | 4.74 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.75 | 4.75 | 21 | 80 | 33 | 5 | 6 |
| F1352HUN-4.76 | 4.76 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.77 | 4.77 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.78 | 4.78 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.79 | 4.79 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.8 | 4.8 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.81 | 4.81 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.82 | 4.82 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.83 | 4.83 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.84 | 4.84 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.85 | 4.85 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.86 | 4.86 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.87 | 4.87 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.88 | 4.88 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.89 | 4.89 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.9 | 4.9 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.91 | 4.91 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.92 | 4.92 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.93 | 4.93 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.94 | 4.94 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.95 | 4.95 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.96 | 4.96 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.97 | 4.97 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.98 | 4.98 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-4.99 | 4.99 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5 | 5 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.01 | 5.01 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.02 | 5.02 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.03 | 5.03 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.04 | 5.04 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.05 | 5.05 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.06 | 5.06 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.07 | 5.07 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.08 | 5.08 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.09 | 5.09 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.1 | 5.1 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.11 | 5.11 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.12 | 5.12 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.13 | 5.13 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.14 | 5.14 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.15 | 5.15 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.16 | 5.16 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.17 | 5.17 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.18 | 5.18 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.19 | 5.19 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.2 | 5.2 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.21 | 5.21 | 23 | 86 | 34 | 5 | 6 |

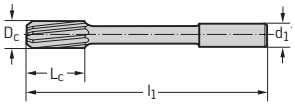
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-5.22 | 5.22 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.23 | 5.23 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.24 | 5.24 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.25 | 5.25 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.26 | 5.26 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.27 | 5.27 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.28 | 5.28 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.29 | 5.29 | 23 | 86 | 34 | 5 | 6 |
| F1352HUN-5.31 | 5.31 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.32 | 5.32 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.33 | 5.33 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.34 | 5.34 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.35 | 5.35 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.36 | 5.36 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.37 | 5.37 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.38 | 5.38 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.39 | 5.39 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.41 | 5.41 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.42 | 5.42 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.43 | 5.43 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.44 | 5.44 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.45 | 5.45 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.46 | 5.46 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.47 | 5.47 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.48 | 5.48 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.49 | 5.49 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.5 | 5.5 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.51 | 5.51 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.52 | 5.52 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.53 | 5.53 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.54 | 5.54 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.55 | 5.55 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.56 | 5.56 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.57 | 5.57 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.58 | 5.58 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.59 | 5.59 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.6 | 5.6 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.61 | 5.61 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.62 | 5.62 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.63 | 5.63 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.64 | 5.64 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.65 | 5.65 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.66 | 5.66 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.67 | 5.67 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.68 | 5.68 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.69 | 5.69 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.71 | 5.71 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.72 | 5.72 | 26 | 93 | 36 | 6 | 6 |

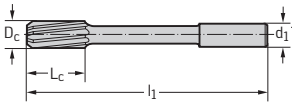
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-5.73 | 5.73 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.74 | 5.74 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.75 | 5.75 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.76 | 5.76 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.77 | 5.77 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.78 | 5.78 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.79 | 5.79 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.81 | 5.81 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.82 | 5.82 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.83 | 5.83 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.84 | 5.84 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.85 | 5.85 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.86 | 5.86 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.87 | 5.87 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.88 | 5.88 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.89 | 5.89 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.91 | 5.91 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.92 | 5.92 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.93 | 5.93 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.94 | 5.94 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.95 | 5.95 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.96 | 5.96 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.97 | 5.97 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.98 | 5.98 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-5.99 | 5.99 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-6 | 6 | 26 | 93 | 36 | 6 | 6 |
| F1352HUN-6.01 | 6.01 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.02 | 6.02 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.03 | 6.03 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.04 | 6.04 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.05 | 6.05 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.06 | 6.06 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.07 | 6.07 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.08 | 6.08 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.09 | 6.09 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.1 | 6.1 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.11 | 6.11 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.12 | 6.12 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.13 | 6.13 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.14 | 6.14 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.15 | 6.15 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.16 | 6.16 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.17 | 6.17 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.18 | 6.18 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.19 | 6.19 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.2 | 6.2 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.21 | 6.21 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.22 | 6.22 | 28 | 101 | 38 | 6 | 6 |

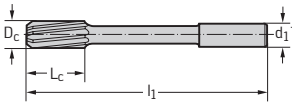
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-6.23 | 6.23 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.24 | 6.24 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.25 | 6.25 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.26 | 6.26 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.27 | 6.27 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.28 | 6.28 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.29 | 6.29 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.31 | 6.31 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.32 | 6.32 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.33 | 6.33 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.34 | 6.34 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.35 | 6.35 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.36 | 6.36 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.37 | 6.37 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.38 | 6.38 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.39 | 6.39 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.4 | 6.4 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.41 | 6.41 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.42 | 6.42 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.43 | 6.43 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.44 | 6.44 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.45 | 6.45 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.46 | 6.46 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.47 | 6.47 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.48 | 6.48 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.49 | 6.49 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.51 | 6.51 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.52 | 6.52 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.53 | 6.53 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.54 | 6.54 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.55 | 6.55 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.56 | 6.56 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.57 | 6.57 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.58 | 6.58 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.59 | 6.59 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.61 | 6.61 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.62 | 6.62 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.63 | 6.63 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.64 | 6.64 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.65 | 6.65 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.66 | 6.66 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.67 | 6.67 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.68 | 6.68 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.69 | 6.69 | 28 | 101 | 38 | 6 | 6 |
| F1352HUN-6.71 | 6.71 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.72 | 6.72 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.73 | 6.73 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.74 | 6.74 | 31 | 109 | 40 | 7 | 6 |

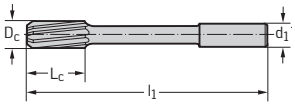
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-6.75 | 6.75 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.76 | 6.76 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.77 | 6.77 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.78 | 6.78 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.79 | 6.79 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.81 | 6.81 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.82 | 6.82 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.83 | 6.83 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.84 | 6.84 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.85 | 6.85 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.86 | 6.86 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.87 | 6.87 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.88 | 6.88 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.89 | 6.89 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.91 | 6.91 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.92 | 6.92 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.93 | 6.93 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.94 | 6.94 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.95 | 6.95 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.96 | 6.96 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.97 | 6.97 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.98 | 6.98 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-6.99 | 6.99 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7 | 7 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.01 | 7.01 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.02 | 7.02 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.03 | 7.03 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.04 | 7.04 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.05 | 7.05 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.06 | 7.06 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.07 | 7.07 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.08 | 7.08 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.09 | 7.09 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.11 | 7.11 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.12 | 7.12 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.13 | 7.13 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.14 | 7.14 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.15 | 7.15 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.16 | 7.16 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.17 | 7.17 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.18 | 7.18 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.19 | 7.19 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.21 | 7.21 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.22 | 7.22 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.23 | 7.23 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.24 | 7.24 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.25 | 7.25 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.26 | 7.26 | 31 | 109 | 40 | 7 | 6 |

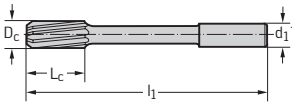
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-7.27 | 7.27 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.28 | 7.28 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.29 | 7.29 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.31 | 7.31 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.32 | 7.32 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.33 | 7.33 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.34 | 7.34 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.35 | 7.35 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.36 | 7.36 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.37 | 7.37 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.38 | 7.38 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.39 | 7.39 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.41 | 7.41 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.42 | 7.42 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.43 | 7.43 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.44 | 7.44 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.45 | 7.45 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.46 | 7.46 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.47 | 7.47 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.48 | 7.48 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.49 | 7.49 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.5 | 7.5 | 31 | 109 | 40 | 7 | 6 |
| F1352HUN-7.51 | 7.51 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.52 | 7.52 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.53 | 7.53 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.54 | 7.54 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.55 | 7.55 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.56 | 7.56 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.57 | 7.57 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.58 | 7.58 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.59 | 7.59 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.61 | 7.61 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.62 | 7.62 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.63 | 7.63 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.64 | 7.64 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.65 | 7.65 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.66 | 7.66 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.67 | 7.67 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.68 | 7.68 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.69 | 7.69 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.71 | 7.71 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.72 | 7.72 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.73 | 7.73 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.74 | 7.74 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.75 | 7.75 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.76 | 7.76 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.77 | 7.77 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.78 | 7.78 | 33 | 117 | 42 | 8 | 6 |

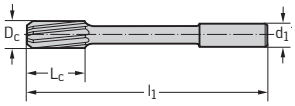
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-7.79 | 7.79 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.81 | 7.81 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.82 | 7.82 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.83 | 7.83 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.84 | 7.84 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.85 | 7.85 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.86 | 7.86 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.87 | 7.87 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.88 | 7.88 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.89 | 7.89 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.91 | 7.91 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.92 | 7.92 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.93 | 7.93 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.94 | 7.94 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.95 | 7.95 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.96 | 7.96 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.97 | 7.97 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.98 | 7.98 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-7.99 | 7.99 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8 | 8 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.01 | 8.01 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.02 | 8.02 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.03 | 8.03 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.04 | 8.04 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.05 | 8.05 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.06 | 8.06 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.07 | 8.07 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.08 | 8.08 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.09 | 8.09 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.1 | 8.1 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.11 | 8.11 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.12 | 8.12 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.13 | 8.13 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.14 | 8.14 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.15 | 8.15 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.16 | 8.16 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.17 | 8.17 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.18 | 8.18 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.19 | 8.19 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.2 | 8.2 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.21 | 8.21 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.22 | 8.22 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.23 | 8.23 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.24 | 8.24 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.25 | 8.25 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.26 | 8.26 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.27 | 8.27 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.28 | 8.28 | 33 | 117 | 42 | 8 | 6 |

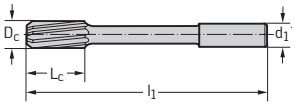
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-8.29 | 8.29 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.3 | 8.3 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.31 | 8.31 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.32 | 8.32 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.33 | 8.33 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.34 | 8.34 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.35 | 8.35 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.36 | 8.36 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.37 | 8.37 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.38 | 8.38 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.39 | 8.39 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.41 | 8.41 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.42 | 8.42 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.43 | 8.43 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.44 | 8.44 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.45 | 8.45 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.46 | 8.46 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.47 | 8.47 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.48 | 8.48 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.49 | 8.49 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.5 | 8.5 | 33 | 117 | 42 | 8 | 6 |
| F1352HUN-8.51 | 8.51 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.52 | 8.52 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.53 | 8.53 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.54 | 8.54 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.55 | 8.55 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.56 | 8.56 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.57 | 8.57 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.58 | 8.58 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.59 | 8.59 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.61 | 8.61 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.62 | 8.62 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.63 | 8.63 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.64 | 8.64 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.65 | 8.65 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.66 | 8.66 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.67 | 8.67 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.68 | 8.68 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.69 | 8.69 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.71 | 8.71 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.72 | 8.72 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.73 | 8.73 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.74 | 8.74 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.75 | 8.75 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.76 | 8.76 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.77 | 8.77 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.78 | 8.78 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.79 | 8.79 | 36 | 125 | 44 | 9 | 6 |

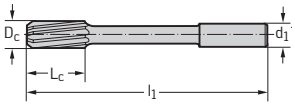
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-8.81 | 8.81 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.82 | 8.82 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.83 | 8.83 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.84 | 8.84 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.85 | 8.85 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.86 | 8.86 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.87 | 8.87 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.88 | 8.88 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.89 | 8.89 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.91 | 8.91 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.92 | 8.92 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.93 | 8.93 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.94 | 8.94 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.95 | 8.95 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.96 | 8.96 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.97 | 8.97 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.98 | 8.98 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-8.99 | 8.99 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9 | 9 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.01 | 9.01 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.02 | 9.02 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.03 | 9.03 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.04 | 9.04 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.05 | 9.05 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.06 | 9.06 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.07 | 9.07 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.08 | 9.08 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.09 | 9.09 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.11 | 9.11 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.12 | 9.12 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.13 | 9.13 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.14 | 9.14 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.15 | 9.15 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.16 | 9.16 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.17 | 9.17 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.18 | 9.18 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.19 | 9.19 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.21 | 9.21 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.22 | 9.22 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.23 | 9.23 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.24 | 9.24 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.25 | 9.25 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.26 | 9.26 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.27 | 9.27 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.28 | 9.28 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.29 | 9.29 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.31 | 9.31 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.32 | 9.32 | 36 | 125 | 44 | 9 | 6 |

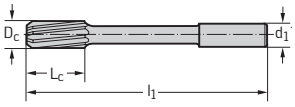
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-9.33 | 9.33 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.34 | 9.34 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.35 | 9.35 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.36 | 9.36 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.37 | 9.37 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.38 | 9.38 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.39 | 9.39 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.41 | 9.41 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.42 | 9.42 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.43 | 9.43 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.44 | 9.44 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.45 | 9.45 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.46 | 9.46 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.47 | 9.47 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.48 | 9.48 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.49 | 9.49 | 36 | 125 | 44 | 9 | 6 |
| F1352HUN-9.51 | 9.51 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.52 | 9.52 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.53 | 9.53 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.54 | 9.54 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.55 | 9.55 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.56 | 9.56 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.57 | 9.57 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.58 | 9.58 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.59 | 9.59 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.61 | 9.61 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.62 | 9.62 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.63 | 9.63 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.64 | 9.64 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.65 | 9.65 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.66 | 9.66 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.67 | 9.67 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.68 | 9.68 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.69 | 9.69 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.71 | 9.71 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.72 | 9.72 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.73 | 9.73 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.74 | 9.74 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.75 | 9.75 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.76 | 9.76 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.77 | 9.77 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.78 | 9.78 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.79 | 9.79 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.81 | 9.81 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.82 | 9.82 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.83 | 9.83 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.84 | 9.84 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.85 | 9.85 | 38 | 133 | 46 | 10 | 6 |

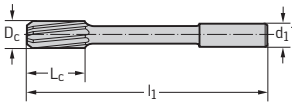
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-9.86 | 9.86 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.87 | 9.87 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.88 | 9.88 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.89 | 9.89 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.91 | 9.91 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.92 | 9.92 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.93 | 9.93 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.94 | 9.94 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.95 | 9.95 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.96 | 9.96 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.97 | 9.97 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.98 | 9.98 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-9.99 | 9.99 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10 | 10 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.01 | 10.01 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.02 | 10.02 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.03 | 10.03 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.04 | 10.04 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.05 | 10.05 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.06 | 10.06 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.07 | 10.07 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.08 | 10.08 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.09 | 10.09 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.1 | 10.1 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.11 | 10.11 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.12 | 10.12 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.13 | 10.13 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.14 | 10.14 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.15 | 10.15 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.16 | 10.16 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.17 | 10.17 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.18 | 10.18 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.19 | 10.19 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.2 | 10.2 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.21 | 10.21 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.22 | 10.22 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.23 | 10.23 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.24 | 10.24 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.25 | 10.25 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.26 | 10.26 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.27 | 10.27 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.28 | 10.28 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.29 | 10.29 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.31 | 10.31 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.32 | 10.32 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.33 | 10.33 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.34 | 10.34 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.35 | 10.35 | 38 | 133 | 46 | 10 | 6 |

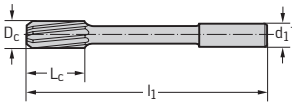
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-10.36 | 10.36 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.37 | 10.37 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.38 | 10.38 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.39 | 10.39 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.41 | 10.41 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.42 | 10.42 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.43 | 10.43 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.44 | 10.44 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.45 | 10.45 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.46 | 10.46 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.47 | 10.47 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.48 | 10.48 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.49 | 10.49 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.51 | 10.51 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.52 | 10.52 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.53 | 10.53 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.54 | 10.54 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.55 | 10.55 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.56 | 10.56 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.57 | 10.57 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.58 | 10.58 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.59 | 10.59 | 38 | 133 | 46 | 10 | 6 |
| F1352HUN-10.61 | 10.61 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.62 | 10.62 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.63 | 10.63 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.64 | 10.64 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.65 | 10.65 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.66 | 10.66 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.67 | 10.67 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.68 | 10.68 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.69 | 10.69 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.71 | 10.71 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.72 | 10.72 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.73 | 10.73 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.74 | 10.74 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.75 | 10.75 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.76 | 10.76 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.77 | 10.77 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.78 | 10.78 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.79 | 10.79 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.81 | 10.81 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.82 | 10.82 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.83 | 10.83 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.84 | 10.84 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.85 | 10.85 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.86 | 10.86 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.87 | 10.87 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.88 | 10.88 | 41 | 142 | 46 | 10 | 6 |

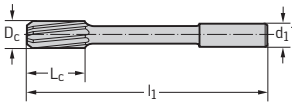
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-10.89 | 10.89 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.91 | 10.91 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.92 | 10.92 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.93 | 10.93 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.94 | 10.94 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.95 | 10.95 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.96 | 10.96 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.97 | 10.97 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.98 | 10.98 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-10.99 | 10.99 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.01 | 11.01 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.02 | 11.02 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.03 | 11.03 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.04 | 11.04 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.05 | 11.05 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.06 | 11.06 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.07 | 11.07 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.08 | 11.08 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.09 | 11.09 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.1 | 11.1 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.11 | 11.11 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.12 | 11.12 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.13 | 11.13 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.14 | 11.14 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.15 | 11.15 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.16 | 11.16 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.17 | 11.17 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.18 | 11.18 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.19 | 11.19 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.2 | 11.2 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.21 | 11.21 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.22 | 11.22 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.23 | 11.23 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.24 | 11.24 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.25 | 11.25 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.26 | 11.26 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.27 | 11.27 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.28 | 11.28 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.29 | 11.29 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.3 | 11.3 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.31 | 11.31 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.32 | 11.32 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.33 | 11.33 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.34 | 11.34 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.35 | 11.35 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.36 | 11.36 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.37 | 11.37 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.38 | 11.38 | 41 | 142 | 46 | 10 | 6 |

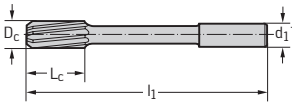
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-11.39 | 11.39 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.4 | 11.4 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.41 | 11.41 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.42 | 11.42 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.43 | 11.43 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.44 | 11.44 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.45 | 11.45 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.46 | 11.46 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.47 | 11.47 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.48 | 11.48 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.49 | 11.49 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.51 | 11.51 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.52 | 11.52 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.53 | 11.53 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.54 | 11.54 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.55 | 11.55 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.56 | 11.56 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.57 | 11.57 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.58 | 11.58 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.59 | 11.59 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.6 | 11.6 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.61 | 11.61 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.62 | 11.62 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.63 | 11.63 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.64 | 11.64 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.65 | 11.65 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.66 | 11.66 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.67 | 11.67 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.68 | 11.68 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.69 | 11.69 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.7 | 11.7 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.71 | 11.71 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.72 | 11.72 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.73 | 11.73 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.74 | 11.74 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.75 | 11.75 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.76 | 11.76 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.77 | 11.77 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.78 | 11.78 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.79 | 11.79 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.8 | 11.8 | 41 | 142 | 46 | 10 | 6 |
| F1352HUN-11.81 | 11.81 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.82 | 11.82 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.83 | 11.83 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.84 | 11.84 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.85 | 11.85 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.86 | 11.86 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.87 | 11.87 | 44 | 151 | 46 | 10 | 6 |

## Tool




Cylindrical shank

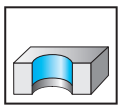
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_5$ mm | h9 | Z |
|---|---|---|---|---|---|---|
| F1352HUN-11.88 | 11.88 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.89 | 11.89 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.9 | 11.9 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.91 | 11.91 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.92 | 11.92 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.93 | 11.93 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.94 | 11.94 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.95 | 11.95 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.96 | 11.96 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.97 | 11.97 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.98 | 11.98 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-11.99 | 11.99 | 44 | 151 | 46 | 10 | 6 |
| F1352HUN-12 | 12 | 44 | 151 | 46 | 10 | 6 |

# HSS machine reamers

## F1352

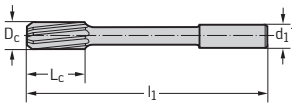
– Walter standard up to dia. 1.3 mm
– With centring tip on both sides up to dia. 3.7 mm

DIN 212 |  | H7



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

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | h9 | Z |
|---|---|---|---|---|---|
| F1352-0.9 | 0.9 | 6 | 34 | 1 | 3 |
| F1352-1 | 1 | 6 | 34 | 1 | 3 |
| F1352-1.1 | 1.1 | 7 | 36 | 1 | 3 |
| F1352-1.2 | 1.2 | 8 | 38 | 1 | 3 |
| F1352-1.3 | 1.3 | 8 | 38 | 1 | 3 |
| F1352-1.4 | 1.4 | 8 | 40 | 1 | 3 |
| F1352-1.5 | 1.5 | 8 | 40 | 2 | 3 |
| F1352-1.6 | 1.6 | 9 | 43 | 2 | 3 |
| F1352-1.7 | 1.7 | 9 | 43 | 2 | 3 |
| F1352-1.8 | 1.8 | 10 | 46 | 2 | 4 |
| F1352-1.9 | 1.9 | 10 | 46 | 2 | 4 |
| F1352-2 | 2 | 11 | 49 | 2 | 4 |
| F1352-2.1 | 2.1 | 11 | 49 | 2 | 4 |
| F1352-2.2 | 2.2 | 12 | 53 | 2 | 4 |
| F1352-2.3 | 2.3 | 12 | 53 | 2 | 4 |
| F1352-2.4 | 2.4 | 14 | 57 | 2 | 4 |
| F1352-2.5 | 2.5 | 14 | 57 | 3 | 4 |
| F1352-2.6 | 2.6 | 14 | 57 | 3 | 4 |
| F1352-2.7 | 2.7 | 15 | 61 | 3 | 6 |
| F1352-2.8 | 2.8 | 15 | 61 | 3 | 6 |
| F1352-2.9 | 2.9 | 15 | 61 | 3 | 6 |
| F1352-3 | 3 | 15 | 61 | 3 | 6 |
| F1352-3.1 | 3.1 | 16 | 65 | 3 | 6 |
| F1352-3.2 | 3.2 | 16 | 65 | 3 | 6 |
| F1352-3.3 | 3.3 | 16 | 65 | 3 | 6 |
| F1352-3.4 | 3.4 | 18 | 70 | 3 | 6 |
| F1352-3.5 | 3.5 | 18 | 70 | 4 | 6 |
| F1352-3.6 | 3.6 | 18 | 70 | 4 | 6 |
| F1352-3.7 | 3.7 | 18 | 70 | 4 | 6 |
| F1352-3.8 | 3.8 | 19 | 75 | 4 | 6 |
| F1352-3.9 | 3.9 | 19 | 75 | 4 | 6 |
| F1352-4 | 4 | 19 | 75 | 4 | 6 |
| F1352-4.1 | 4.1 | 19 | 75 | 4 | 6 |
| F1352-4.2 | 4.2 | 19 | 75 | 4 | 6 |
| F1352-4.3 | 4.3 | 21 | 80 | 5 | 6 |

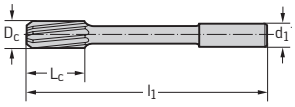


**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

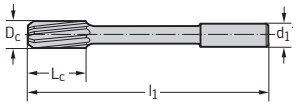
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | h9 | Z |
|---|---|---|---|---|---|
| F1352-4.4 | 4.4 | 21 | 80 | 5 | 6 |
| F1352-4.5 | 4.5 | 21 | 80 | 5 | 6 |
| F1352-4.6 | 4.6 | 21 | 80 | 5 | 6 |
| F1352-4.7 | 4.7 | 21 | 80 | 5 | 6 |
| F1352-4.8 | 4.8 | 23 | 86 | 5 | 6 |
| F1352-4.9 | 4.9 | 23 | 86 | 5 | 6 |
| F1352-5 | 5 | 23 | 86 | 5 | 6 |
| F1352-5.1 | 5.1 | 23 | 86 | 5 | 6 |
| F1352-5.2 | 5.2 | 23 | 86 | 5 | 6 |
| F1352-5.3 | 5.3 | 23 | 86 | 5 | 6 |
| F1352-5.4 | 5.4 | 26 | 93 | 6 | 6 |
| F1352-5.5 | 5.5 | 26 | 93 | 6 | 6 |
| F1352-5.6 | 5.6 | 26 | 93 | 6 | 6 |
| F1352-5.7 | 5.7 | 26 | 93 | 6 | 6 |
| F1352-5.8 | 5.8 | 26 | 93 | 6 | 6 |
| F1352-5.9 | 5.9 | 26 | 93 | 6 | 6 |
| F1352-6 | 6 | 26 | 93 | 6 | 6 |
| F1352-6.1 | 6.1 | 28 | 101 | 6 | 6 |
| F1352-6.2 | 6.2 | 28 | 101 | 6 | 6 |
| F1352-6.3 | 6.3 | 28 | 101 | 6 | 6 |
| F1352-6.4 | 6.4 | 28 | 101 | 6 | 6 |
| F1352-6.5 | 6.5 | 28 | 101 | 6 | 6 |
| F1352-6.6 | 6.6 | 28 | 101 | 6 | 6 |
| F1352-6.7 | 6.7 | 28 | 101 | 6 | 6 |
| F1352-6.8 | 6.8 | 31 | 109 | 7 | 6 |
| F1352-6.9 | 6.9 | 31 | 109 | 7 | 6 |
| F1352-7 | 7 | 31 | 109 | 7 | 6 |
| F1352-7.1 | 7.1 | 31 | 109 | 7 | 6 |
| F1352-7.2 | 7.2 | 31 | 109 | 7 | 6 |
| F1352-7.3 | 7.3 | 31 | 109 | 7 | 6 |
| F1352-7.4 | 7.4 | 31 | 109 | 7 | 6 |
| F1352-7.5 | 7.5 | 31 | 109 | 7 | 6 |
| F1352-7.6 | 7.6 | 33 | 117 | 8 | 6 |
| F1352-7.7 | 7.7 | 33 | 117 | 8 | 6 |
| F1352-7.8 | 7.8 | 33 | 117 | 8 | 6 |
| F1352-7.9 | 7.9 | 33 | 117 | 8 | 6 |
| F1352-8 | 8 | 33 | 117 | 8 | 6 |
| F1352-8.1 | 8.1 | 33 | 117 | 8 | 6 |
| F1352-8.2 | 8.2 | 33 | 117 | 8 | 6 |
| F1352-8.3 | 8.3 | 33 | 117 | 8 | 6 |
| F1352-8.4 | 8.4 | 33 | 117 | 8 | 6 |
| F1352-8.5 | 8.5 | 33 | 117 | 8 | 6 |
| F1352-8.6 | 8.6 | 36 | 125 | 9 | 6 |
| F1352-8.7 | 8.7 | 36 | 125 | 9 | 6 |
| F1352-8.8 | 8.8 | 36 | 125 | 9 | 6 |
| F1352-8.9 | 8.9 | 36 | 125 | 9 | 6 |
| F1352-9 | 9 | 36 | 125 | 9 | 6 |
| F1352-9.1 | 9.1 | 36 | 125 | 9 | 6 |

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | h9 | Z |
|---|---|---|---|---|---|
| F1352-9.2 | 9.2 | 36 | 125 | 9 | 6 |
| F1352-9.3 | 9.3 | 36 | 125 | 9 | 6 |
| F1352-9.4 | 9.4 | 36 | 125 | 9 | 6 |
| F1352-9.5 | 9.5 | 36 | 125 | 9 | 6 |
| F1352-9.6 | 9.6 | 38 | 133 | 10 | 6 |
| F1352-9.7 | 9.7 | 38 | 133 | 10 | 6 |
| F1352-9.8 | 9.8 | 38 | 133 | 10 | 6 |
| F1352-9.9 | 9.9 | 38 | 133 | 10 | 6 |
| F1352-10 | 10 | 38 | 133 | 10 | 6 |
| F1352-10.1 | 10.1 | 38 | 133 | 10 | 6 |
| F1352-10.2 | 10.2 | 38 | 133 | 10 | 6 |
| F1352-10.3 | 10.3 | 38 | 133 | 10 | 6 |
| F1352-10.4 | 10.4 | 38 | 133 | 10 | 6 |
| F1352-10.5 | 10.5 | 38 | 133 | 10 | 6 |
| F1352-10.6 | 10.6 | 38 | 133 | 10 | 6 |
| F1352-10.7 | 10.7 | 41 | 142 | 10 | 6 |
| F1352-10.8 | 10.8 | 41 | 142 | 10 | 6 |
| F1352-10.9 | 10.9 | 41 | 142 | 10 | 6 |
| F1352-11 | 11 | 41 | 142 | 10 | 6 |
| F1352-11.5 | 11.5 | 41 | 142 | 10 | 6 |
| F1352-12 | 12 | 44 | 151 | 10 | 6 |
| F1352-12.5 | 12.5 | 44 | 151 | 10 | 6 |
| F1352-13 | 13 | 44 | 151 | 10 | 6 |
| F1352-13.5 | 13.5 | 47 | 160 | 13 | 8 |
| F1352-14 | 14 | 47 | 160 | 13 | 8 |
| F1352-14.5 | 14.5 | 50 | 162 | 13 | 8 |
| F1352-15 | 15 | 50 | 162 | 13 | 8 |
| F1352-15.5 | 15.5 | 52 | 170 | 13 | 8 |
| F1352-16 | 16 | 52 | 170 | 13 | 8 |
| F1352-16.5 | 16.5 | 54 | 175 | 14 | 8 |
| F1352-17 | 17 | 54 | 175 | 14 | 8 |
| F1352-17.5 | 17.5 | 56 | 182 | 14 | 8 |
| F1352-18 | 18 | 56 | 182 | 14 | 8 |
| F1352-18.5 | 18.5 | 58 | 189 | 16 | 8 |
| F1352-19 | 19 | 58 | 189 | 16 | 8 |
| F1352-19.5 | 19.5 | 60 | 195 | 16 | 8 |
| F1352-20 | 20 | 60 | 195 | 16 | 8 |

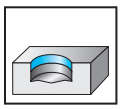
# HSS machine reamers

## F1342

– Walter standard up to dia. 2.1 mm
– With centring tip on both sides up to dia. 3.7 mm

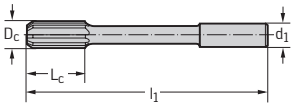
DIN 212

H7



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

### Tool




Cylindrical shank

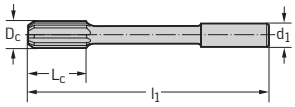
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | h9 | Z |
|---|---|---|---|---|---|
| F1342-1 | 1 | 6 | 34 | 1 | 3 |
| F1342-1.1 | 1.1 | 7 | 36 | 1 | 3 |
| F1342-1.2 | 1.2 | 7 | 36 | 1 | 3 |
| F1342-1.3 | 1.3 | 8 | 38 | 1 | 3 |
| F1342-1.4 | 1.4 | 8 | 40 | 1 | 3 |
| F1342-1.5 | 1.5 | 8 | 40 | 1 | 3 |
| F1342-1.6 | 1.6 | 9 | 43 | 2 | 3 |
| F1342-1.7 | 1.7 | 9 | 43 | 2 | 3 |
| F1342-1.8 | 1.8 | 10 | 46 | 2 | 4 |
| F1342-1.9 | 1.9 | 10 | 46 | 2 | 4 |
| F1342-2 | 2 | 11 | 49 | 2 | 4 |
| F1342-2.1 | 2.1 | 11 | 49 | 2 | 4 |
| F1342-2.2 | 2.2 | 12 | 53 | 2 | 4 |
| F1342-2.3 | 2.3 | 12 | 53 | 2 | 4 |
| F1342-2.4 | 2.4 | 14 | 57 | 2 | 4 |
| F1342-2.5 | 2.5 | 14 | 57 | 3 | 4 |
| F1342-2.6 | 2.6 | 14 | 57 | 3 | 4 |
| F1342-2.7 | 2.7 | 15 | 61 | 3 | 6 |
| F1342-2.8 | 2.8 | 15 | 61 | 3 | 6 |
| F1342-2.9 | 2.9 | 15 | 61 | 3 | 6 |
| F1342-3 | 3 | 15 | 61 | 3 | 6 |
| F1342-3.1 | 3.1 | 16 | 65 | 3 | 6 |
| F1342-3.2 | 3.2 | 16 | 65 | 3 | 6 |
| F1342-3.3 | 3.3 | 16 | 65 | 3 | 6 |
| F1342-3.4 | 3.4 | 18 | 70 | 3 | 6 |
| F1342-3.5 | 3.5 | 18 | 70 | 4 | 6 |
| F1342-3.6 | 3.6 | 18 | 70 | 4 | 6 |
| F1342-3.7 | 3.7 | 18 | 70 | 4 | 6 |
| F1342-3.8 | 3.8 | 19 | 75 | 4 | 6 |
| F1342-3.9 | 3.9 | 19 | 75 | 4 | 6 |
| F1342-4 | 4 | 19 | 75 | 4 | 6 |
| F1342-4.1 | 4.1 | 19 | 75 | 4 | 6 |
| F1342-4.2 | 4.2 | 19 | 75 | 4 | 6 |
| F1342-4.3 | 4.3 | 21 | 80 | 5 | 6 |
| F1342-4.4 | 4.4 | 21 | 80 | 5 | 6 |

**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = → Average = → Poor = machining conditions

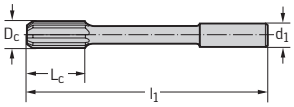
## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | h9 | Z |
|---|---|---|---|---|---|
| F1342-4.5 | 4.5 | 21 | 80 | 5 | 6 |
| F1342-4.6 | 4.6 | 21 | 80 | 5 | 6 |
| F1342-4.7 | 4.7 | 21 | 80 | 5 | 6 |
| F1342-4.8 | 4.8 | 23 | 86 | 5 | 6 |
| F1342-4.9 | 4.9 | 23 | 86 | 5 | 6 |
| F1342-5 | 5 | 23 | 86 | 5 | 6 |
| F1342-5.1 | 5.1 | 23 | 86 | 5 | 6 |
| F1342-5.2 | 5.2 | 23 | 86 | 5 | 6 |
| F1342-5.3 | 5.3 | 23 | 86 | 5 | 6 |
| F1342-5.4 | 5.4 | 26 | 93 | 6 | 6 |
| F1342-5.5 | 5.5 | 26 | 93 | 6 | 6 |
| F1342-5.6 | 5.6 | 26 | 93 | 6 | 6 |
| F1342-5.7 | 5.7 | 26 | 93 | 6 | 6 |
| F1342-5.8 | 5.8 | 26 | 93 | 6 | 6 |
| F1342-5.9 | 5.9 | 26 | 93 | 6 | 6 |
| F1342-6 | 6 | 26 | 93 | 6 | 6 |
| F1342-6.1 | 6.1 | 28 | 101 | 6 | 6 |
| F1342-6.2 | 6.2 | 28 | 101 | 6 | 6 |
| F1342-6.3 | 6.3 | 28 | 101 | 6 | 6 |
| F1342-6.4 | 6.4 | 28 | 101 | 6 | 6 |
| F1342-6.5 | 6.5 | 28 | 101 | 6 | 6 |
| F1342-6.6 | 6.6 | 28 | 101 | 6 | 6 |
| F1342-6.7 | 6.7 | 28 | 101 | 6 | 6 |
| F1342-6.8 | 6.8 | 31 | 109 | 7 | 6 |
| F1342-6.9 | 6.9 | 31 | 109 | 7 | 6 |
| F1342-7 | 7 | 31 | 109 | 7 | 6 |
| F1342-7.1 | 7.1 | 31 | 109 | 7 | 6 |
| F1342-7.2 | 7.2 | 31 | 109 | 7 | 6 |
| F1342-7.3 | 7.3 | 31 | 109 | 7 | 6 |
| F1342-7.4 | 7.4 | 31 | 109 | 7 | 6 |
| F1342-7.5 | 7.5 | 31 | 109 | 7 | 6 |
| F1342-7.6 | 7.6 | 33 | 117 | 8 | 6 |
| F1342-7.7 | 7.7 | 33 | 117 | 8 | 6 |
| F1342-7.8 | 7.8 | 33 | 117 | 8 | 6 |
| F1342-7.9 | 7.9 | 33 | 117 | 8 | 6 |
| F1342-8 | 8 | 33 | 117 | 8 | 6 |
| F1342-8.1 | 8.1 | 33 | 117 | 8 | 6 |
| F1342-8.2 | 8.2 | 33 | 117 | 8 | 6 |
| F1342-8.3 | 8.3 | 33 | 117 | 8 | 6 |
| F1342-8.4 | 8.4 | 33 | 117 | 8 | 6 |
| F1342-8.5 | 8.5 | 33 | 117 | 8 | 6 |
| F1342-8.6 | 8.6 | 36 | 125 | 9 | 6 |
| F1342-8.7 | 8.7 | 36 | 125 | 9 | 6 |
| F1342-8.8 | 8.8 | 36 | 125 | 9 | 6 |
| F1342-8.9 | 8.9 | 36 | 125 | 9 | 6 |
| F1342-9 | 9 | 36 | 125 | 9 | 6 |
| F1342-9.1 | 9.1 | 36 | 125 | 9 | 6 |
| F1342-9.2 | 9.2 | 36 | 125 | 9 | 6 |

## Tool




Cylindrical shank

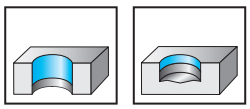
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | h9 | Z |
|---|---|---|---|---|---|
| F1342-9.3 | 9.3 | 36 | 125 | 9 | 6 |
| F1342-9.4 | 9.4 | 36 | 125 | 9 | 6 |
| F1342-9.5 | 9.5 | 36 | 125 | 9 | 6 |
| F1342-9.6 | 9.6 | 38 | 133 | 10 | 6 |
| F1342-9.7 | 9.7 | 38 | 133 | 10 | 6 |
| F1342-9.8 | 9.8 | 38 | 133 | 10 | 6 |
| F1342-9.9 | 9.9 | 38 | 133 | 10 | 6 |
| F1342-10 | 10 | 38 | 133 | 10 | 6 |
| F1342-10.1 | 10.1 | 38 | 133 | 10 | 6 |
| F1342-10.2 | 10.2 | 38 | 133 | 10 | 6 |
| F1342-10.3 | 10.3 | 38 | 133 | 10 | 6 |
| F1342-10.4 | 10.4 | 38 | 133 | 10 | 6 |
| F1342-10.5 | 10.5 | 38 | 133 | 10 | 6 |
| F1342-10.6 | 10.6 | 38 | 133 | 10 | 6 |
| F1342-10.7 | 10.7 | 41 | 142 | 10 | 6 |
| F1342-10.8 | 10.8 | 41 | 142 | 10 | 6 |
| F1342-10.9 | 10.9 | 41 | 142 | 10 | 6 |
| F1342-11 | 11 | 41 | 142 | 10 | 6 |
| F1342-11.5 | 11.5 | 41 | 142 | 10 | 6 |
| F1342-12 | 12 | 44 | 151 | 10 | 6 |
| F1342-12.5 | 12.5 | 44 | 151 | 10 | 6 |
| F1342-13 | 13 | 44 | 151 | 10 | 6 |
| F1342-13.5 | 13.5 | 47 | 160 | 13 | 6 |
| F1342-14 | 14 | 47 | 160 | 13 | 8 |
| F1342-14.5 | 14.5 | 50 | 162 | 13 | 8 |
| F1342-15 | 15 | 50 | 162 | 13 | 8 |
| F1342-15.5 | 15.5 | 52 | 170 | 13 | 8 |
| F1342-16 | 16 | 52 | 170 | 13 | 8 |
| F1342-16.5 | 16.5 | 54 | 175 | 14 | 8 |
| F1342-17 | 17 | 54 | 175 | 14 | 8 |
| F1342-17.5 | 17.5 | 56 | 182 | 14 | 8 |
| F1342-18 | 18 | 56 | 182 | 14 | 8 |
| F1342-18.5 | 18.5 | 58 | 189 | 16 | 8 |
| F1342-19 | 19 | 58 | 189 | 16 | 8 |
| F1342-19.5 | 19.5 | 60 | 195 | 16 | 8 |
| F1342-20 | 20 | 60 | 195 | 16 | 8 |

# HSS machine tapered reamers
# F3234



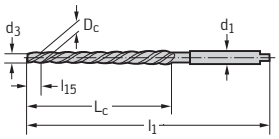
– For tapered pins in accordance with DIN EN 28736; 28737; 28744
– For tapered pins in accordance with DIN 258; 1447; 7977; 7978

DIN 2179 | 1:50



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

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | $l_{15}$ mm | h9 | $d_3$ mm | Z |
|---|---|---|---|---|---|---|---|
| F3234-1 | 1 | 33 | 60 | 5 | 1.4 | 0.9 | 2 |
| F3234-1.5 | 1.5 | 42 | 70 | 5 | 2.1 | 1.4 | 2 |
| F3234-2 | 2 | 48 | 86 | 5 | 3.2 | 1.9 | 3 |
| F3234-2.5 | 2.5 | 48 | 86 | 5 | 3.2 | 2.4 | 3 |
| F3234-3 | 3 | 58 | 100 | 5 | 4 | 2.9 | 3 |
| F3234-4 | 4 | 68 | 112 | 5 | 5 | 3.9 | 3 |
| F3234-5 | 5 | 73 | 122 | 5 | 6.3 | 4.9 | 3 |
| F3234-6 | 6 | 105 | 160 | 5 | 8 | 5.9 | 3 |
| F3234-8 | 8 | 145 | 207 | 5 | 10 | 7.9 | 3 |
| F3234-10 | 10 | 175 | 245 | 5 | 12.5 | 9.9 | 3 |
| F3234-12 | 12 | 210 | 290 | 10 | 16 | 11.8 | 3 |

B 3

**WALTER SELECT**

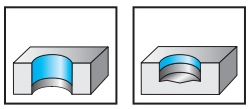
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS adjustable hand-held reamers
# F1231



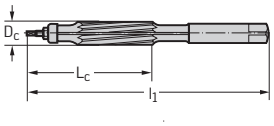
– Adjustment range: 0.01 x $D_c$



DIN 859 |  | H7

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

## Tool




| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | Z |
|---|---|---|---|---|
| F1231-8 | 8 | 42 | 115 | 9 |
| F1231-9 | 9 | 46 | 124 | 9 |
| F1231-10 | 10 | 50 | 133 | 9 |
| F1231-11 | 11 | 51 | 142 | 9 |
| F1231-12 | 12 | 56 | 152 | 9 |
| F1231-13 | 13 | 56 | 152 | 9 |
| F1231-14 | 14 | 61 | 163 | 9 |
| F1231-15 | 15 | 61 | 163 | 9 |
| F1231-16 | 16 | 67 | 175 | 9 |
| F1231-17 | 17 | 67 | 175 | 9 |
| F1231-18 | 18 | 68 | 188 | 9 |
| F1231-19 | 19 | 68 | 188 | 9 |
| F1231-20 | 20 | 75 | 201 | 9 |
| F1231-22 | 22 | 82 | 215 | 12 |
| F1231-24 | 24 | 85 | 231 | 12 |
| F1231-25 | 25 | 85 | 231 | 12 |
| F1231-26 | 26 | 85 | 231 | 12 |
| F1231-28 | 28 | 94 | 247 | 12 |
| F1231-30 | 30 | 94 | 247 | 12 |

B 3

**WALTER SELECT**

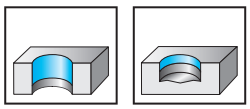
●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

# HSS hand-held reamers

## F1131

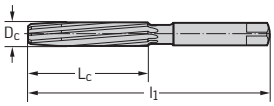
– Long chamfer



DIN 206 |  | H7

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

### Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | Z |
|---|---|---|---|---|
| F1131-1 | 1 | 13 | 34 | 3 |
| F1131-1.2 | 1.2 | 17 | 38 | 3 |
| F1131-1.4 | 1.4 | 20 | 41 | 3 |
| F1131-1.5 | 1.5 | 20 | 41 | 3 |
| F1131-1.6 | 1.6 | 21 | 44 | 3 |
| F1131-1.7 | 1.7 | 21 | 44 | 3 |
| F1131-1.8 | 1.8 | 23 | 47 | 4 |
| F1131-1.9 | 1.9 | 23 | 47 | 4 |
| F1131-2 | 2 | 25 | 50 | 4 |
| F1131-2.1 | 2.1 | 25 | 50 | 4 |
| F1131-2.2 | 2.2 | 27 | 54 | 4 |
| F1131-2.3 | 2.3 | 27 | 54 | 4 |
| F1131-2.4 | 2.4 | 29 | 58 | 4 |
| F1131-2.5 | 2.5 | 29 | 58 | 4 |
| F1131-2.6 | 2.6 | 29 | 58 | 4 |
| F1131-2.7 | 2.7 | 31 | 62 | 6 |
| F1131-2.8 | 2.8 | 31 | 62 | 6 |
| F1131-2.9 | 2.9 | 31 | 62 | 6 |
| F1131-3 | 3 | 31 | 62 | 6 |
| F1131-3.1 | 3.1 | 33 | 66 | 6 |
| F1131-3.2 | 3.2 | 33 | 66 | 6 |
| F1131-3.3 | 3.3 | 33 | 66 | 6 |
| F1131-3.4 | 3.4 | 35 | 71 | 6 |
| F1131-3.5 | 3.5 | 35 | 71 | 6 |
| F1131-3.6 | 3.6 | 35 | 71 | 6 |
| F1131-3.7 | 3.7 | 35 | 71 | 6 |
| F1131-3.8 | 3.8 | 38 | 76 | 6 |
| F1131-3.9 | 3.9 | 38 | 76 | 6 |
| F1131-4 | 4 | 38 | 76 | 6 |
| F1131-4.1 | 4.1 | 38 | 76 | 6 |
| F1131-4.2 | 4.2 | 38 | 76 | 6 |
| F1131-4.3 | 4.3 | 41 | 81 | 6 |
| F1131-4.4 | 4.4 | 41 | 81 | 6 |
| F1131-4.5 | 4.5 | 41 | 81 | 6 |
| F1131-4.6 | 4.6 | 41 | 81 | 6 |

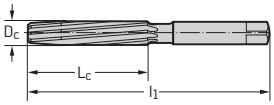


**WALTER SELECT**

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

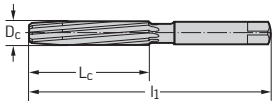
## Tool




Cylindrical shank

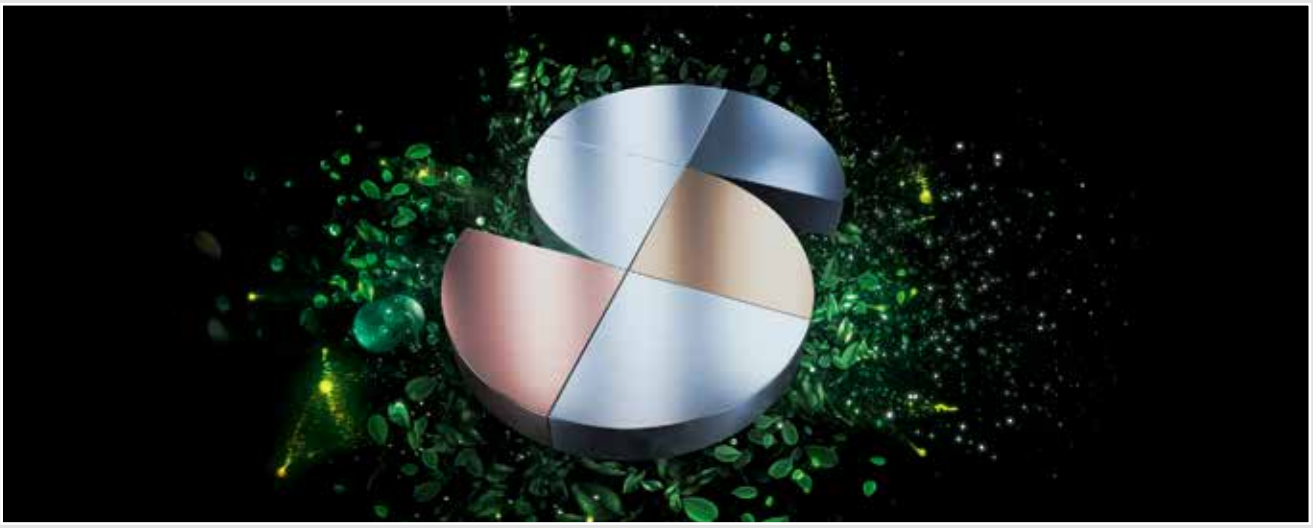
| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | Z |
|---|---|---|---|---|
| F1131-4.7 | 4.7 | 41 | 81 | 6 |
| F1131-4.8 | 4.8 | 44 | 87 | 6 |
| F1131-4.9 | 4.9 | 44 | 87 | 6 |
| F1131-5 | 5 | 44 | 87 | 6 |
| F1131-5.1 | 5.1 | 44 | 87 | 6 |
| F1131-5.2 | 5.2 | 44 | 87 | 6 |
| F1131-5.4 | 5.4 | 47 | 93 | 6 |
| F1131-5.5 | 5.5 | 47 | 93 | 6 |
| F1131-5.6 | 5.6 | 47 | 93 | 6 |
| F1131-5.7 | 5.7 | 47 | 93 | 6 |
| F1131-5.8 | 5.8 | 47 | 93 | 6 |
| F1131-5.9 | 5.9 | 47 | 93 | 6 |
| F1131-6 | 6 | 47 | 93 | 6 |
| F1131-6.1 | 6.1 | 50 | 100 | 6 |
| F1131-6.2 | 6.2 | 50 | 100 | 6 |
| F1131-6.3 | 6.3 | 50 | 100 | 6 |
| F1131-6.4 | 6.4 | 50 | 100 | 6 |
| F1131-6.5 | 6.5 | 50 | 100 | 6 |
| F1131-6.6 | 6.6 | 50 | 100 | 6 |
| F1131-6.7 | 6.7 | 50 | 100 | 6 |
| F1131-6.8 | 6.8 | 54 | 107 | 6 |
| F1131-6.9 | 6.9 | 54 | 107 | 6 |
| F1131-7 | 7 | 54 | 107 | 6 |
| F1131-7.1 | 7.1 | 54 | 107 | 6 |
| F1131-7.2 | 7.2 | 54 | 107 | 6 |
| F1131-7.3 | 7.3 | 54 | 107 | 6 |
| F1131-7.4 | 7.4 | 54 | 107 | 6 |
| F1131-7.5 | 7.5 | 54 | 107 | 6 |
| F1131-7.7 | 7.7 | 58 | 115 | 6 |
| F1131-7.8 | 7.8 | 58 | 115 | 6 |
| F1131-7.9 | 7.9 | 58 | 115 | 6 |
| F1131-8 | 8 | 58 | 115 | 6 |
| F1131-8.1 | 8.1 | 58 | 115 | 6 |
| F1131-8.2 | 8.2 | 58 | 115 | 6 |
| F1131-8.3 | 8.3 | 58 | 115 | 6 |
| F1131-8.4 | 8.4 | 58 | 115 | 6 |
| F1131-8.5 | 8.5 | 58 | 115 | 6 |
| F1131-8.7 | 8.7 | 62 | 124 | 6 |
| F1131-8.8 | 8.8 | 62 | 124 | 6 |
| F1131-8.9 | 8.9 | 62 | 124 | 6 |
| F1131-9 | 9 | 62 | 124 | 6 |
| F1131-9.1 | 9.1 | 62 | 124 | 6 |
| F1131-9.2 | 9.2 | 62 | 124 | 6 |
| F1131-9.3 | 9.3 | 62 | 124 | 6 |
| F1131-9.4 | 9.4 | 62 | 124 | 6 |
| F1131-9.5 | 9.5 | 62 | 124 | 6 |
| F1131-9.6 | 9.6 | 66 | 133 | 6 |
| F1131-9.7 | 9.7 | 66 | 133 | 6 |

## Tool




Cylindrical shank

| Designation | $D_c$ mm | $L_c$ mm | $l_1$ mm | Z |
|---|---|---|---|---|
| F1131-9.8 | 9.8 | 66 | 133 | 6 |
| F1131-10 | 10 | 66 | 133 | 6 |
| F1131-10.5 | 10.5 | 66 | 133 | 6 |
| F1131-11 | 11 | 71 | 142 | 6 |
| F1131-11.5 | 11.5 | 71 | 142 | 6 |
| F1131-12 | 12 | 76 | 152 | 6 |
| F1131-12.5 | 12.5 | 76 | 152 | 6 |
| F1131-13 | 13 | 76 | 152 | 6 |
| F1131-13.5 | 13.5 | 81 | 163 | 8 |
| F1131-14 | 14 | 81 | 163 | 8 |
| F1131-14.5 | 14.5 | 81 | 163 | 8 |
| F1131-15 | 15 | 81 | 163 | 8 |
| F1131-16 | 16 | 87 | 175 | 8 |
| F1131-16.5 | 16.5 | 87 | 175 | 8 |
| F1131-17 | 17 | 87 | 175 | 8 |
| F1131-18 | 18 | 93 | 188 | 8 |
| F1131-18.5 | 18.5 | 93 | 188 | 8 |
| F1131-19 | 19 | 93 | 188 | 8 |
| F1131-19.5 | 19.5 | 100 | 201 | 8 |
| F1131-20 | 20 | 100 | 201 | 8 |
| F1131-20.5 | 20.5 | 100 | 201 | 8 |
| F1131-21 | 21 | 100 | 201 | 8 |
| F1131-21.5 | 21.5 | 100 | 201 | 8 |
| F1131-22 | 22 | 107 | 215 | 8 |
| F1131-23 | 23 | 107 | 215 | 8 |
| F1131-25 | 25 | 115 | 231 | 8 |
| F1131-26 | 26 | 115 | 231 | 8 |
| F1131-28 | 28 | 124 | 247 | 10 |
| F1131-30 | 30 | 124 | 247 | 10 |
| F1131-32 | 32 | 133 | 265 | 10 |



# 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 $CO_2$-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.

## Walter USA

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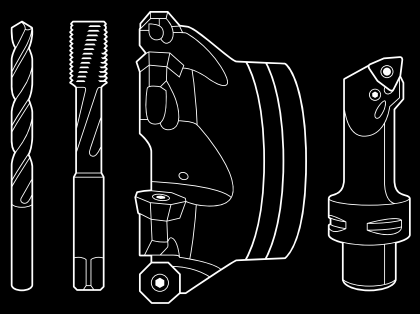

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