

**Garant****Solid carbide ball nose slot drill, Diamond, Ø f8 DC / DS: 4mm****Order data**

|              |               |
|--------------|---------------|
| Order number | 209776 4      |
| GTIN         | 4045197544216 |
| Item class   | 10Y           |

**Description****Version:**

With the latest generation of **crystalline diamond coating sp<sup>3</sup>**, for process reliability in machining **fibre-reinforced composites, CRP, GRP and graphite**. Double relief ground side clearance angle.

Tolerance: Radius contour = **±0.01 mm**.

**Technical description**

|                                                  |               |
|--------------------------------------------------|---------------|
| Cutting edge Ø D <sub>c</sub>                    | 4 mm          |
| Overhang length L <sub>1</sub> incl. recess      | 12 mm         |
| No. of teeth Z                                   | 2             |
| Recess Ø D <sub>1</sub>                          | 3.9 mm        |
| Feed f <sub>z</sub> for copy milling in graphite | 0.023 mm      |
| Feed f <sub>z</sub> for side milling in graphite | 0.023 mm      |
| Shank Ø D <sub>s</sub>                           | 4 mm          |
| Overall length L                                 | 54 mm         |
| Flute length L <sub>c</sub>                      | 8 mm          |
| Helix angle                                      | 30 degrees    |
| Radius R                                         | 2 mm          |
| Coating                                          | Diamond       |
| Tool material                                    | Solid carbide |

|                                           |                                  |
|-------------------------------------------|----------------------------------|
| Standard                                  | Manufacturer's standard          |
| Tolerance nominal Ø                       | f8                               |
| Direction of infeed                       | horizontal, oblique and vertical |
| Cutting width $a_e$ for milling operation | $0.05 \times D$ for copy milling |
| Cutting width $a_e$ for milling operation | $0.2 \times D$ for side milling  |
| Shank                                     | DIN 6535 HA with h6              |
| Through-coolant                           | no                               |
| Colour ring                               | black                            |
| Type of product                           | Ball-nosed slot drill            |

## User data

|                    | Suitability | $V_c$     | ISO code |
|--------------------|-------------|-----------|----------|
| PVDF GF20          | suitable    | 200 m/min | N        |
| POM GF25           | suitable    | 190 m/min | N        |
| PA 66 GF30         | suitable    | 170 m/min | N        |
| PEEK GF30          | suitable    | 150 m/min | N        |
| PTFE CF25          | suitable    | 180 m/min | N        |
| PEEK CF30          | suitable    | 160 m/min | N        |
| Hybrids            | suitable    |           |          |
| Honeycomb sandwich | suitable    | 350 m/min | N        |
| GRP                | suitable    | 190 m/min | N        |
| GRP, CRP           | suitable    | 190 m/min | N        |
| Graphite           | suitable    | 340 m/min | N        |
| wet minimum        | suitable    |           |          |
| dry                | Suitable    |           |          |
| Air                | suitable    |           |          |