

**Garant**
**GARANT Master Steel solid carbide mini-milling cutter HPC, TiAlN, Ø e8 DC: 4 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 202291 4      |
| GTIN         | 4062406271565 |
| Item class   | 11X           |

**Description**
**Version:**

**Extra short cutter** for maximum stability. **Shank length to DIN** for improved support of the tool in the holder. This significantly increases the tool life.

**Save the regrinding costs:** It is cheaper to use a carbide mini slot drill to the limit of wear and throw it away, than to regrind it.

Tool for **general-purpose machining**.

Tolerance nominal Ø: e8

No. of teeth Z: 3

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 3

Flute length  $L_c$ : 7 mm

Overall length L: 50 mm

Shank Ø  $D_s$ : 6 mm

Feed  $f_z$  for slot milling in steel < 900 N/mm<sup>2</sup>: 0.02 mm

Feed  $f_z$  for side milling in steel < 900 N/mm<sup>2</sup>: 0.022 mm

**Technical description**

|                                                              |                   |
|--------------------------------------------------------------|-------------------|
| Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup> | 0.02 mm           |
| Shank                                                        | DIN 6535 HB to h6 |
| Tolerance nominal Ø                                          | e8                |

|                                                                       |                                  |
|-----------------------------------------------------------------------|----------------------------------|
| No. of teeth Z                                                        | 3                                |
| Shank Ø D <sub>s</sub>                                                | 6 mm                             |
| Direction of infeed                                                   | horizontal, oblique and vertical |
| Cutting edge Ø D <sub>c</sub>                                         | 4 mm                             |
| Overall length L                                                      | 50 mm                            |
| Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup> | 0.022 mm                         |
| Flute length L <sub>c</sub>                                           | 7 mm                             |
| Helix angle                                                           | 30 degrees                       |
| Corner chamfer angle                                                  | 90 degrees                       |
| Series                                                                | GARANT Master Steel              |
| Coating                                                               | TiAlN                            |
| Tool material                                                         | Solid carbide                    |
| Standard                                                              | Manufacturer's standard          |
| Type                                                                  | N                                |
| Helix angle characteristic                                            | unequal spacing                  |
| Cutting width a <sub>e</sub> for milling operation                    | Full slot cutting depth 1×D      |
| Cutting width a <sub>e</sub> for milling operation                    | Full slot cutting depth 1×D      |
| Through-coolant                                                       | no                               |
| Machining strategy                                                    | HPC                              |
| Colour ring                                                           | green                            |
| Type of product                                                       | End mill                         |