

**Garant**
**GARANT Master INOX solid carbide ball nose slot drill HPC, TiAlN, Ø f8 DC / DS: 12 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 207473 12     |
| GTIN         | 4062406130367 |
| Item class   | 11X           |

**Description**
**Version:**

HPC milling cutters with **newly developed high-performance coating** for **outstanding service life** and **optimum metal removal rates** in a wide range of stainless steels.

**Greater oxidation resistance** and **high-temperature hardness**.

Can be used at **high cutting speeds**, particularly suitable even for TOOLOX®.

Tolerance: Radius contour = **±0.005 mm**.

No. of teeth Z: 4

Helix angle: 45 degrees

No. of teeth Z: 4

Flute length L<sub>c</sub>: 16 mm

Overall length L: 73 mm

Shank Ø D<sub>s</sub>: 12 mm

Feed f<sub>z</sub> for side milling in INOX < 900 N/mm<sup>2</sup>: 0.045 mm

Feed f<sub>z</sub> for copy milling in stainless steel < 900 N/mm<sup>2</sup>: 0.051 mm

**Technical description**

|                                                                                 |            |
|---------------------------------------------------------------------------------|------------|
| Shank Ø D <sub>s</sub>                                                          | 12 mm      |
| Flute length L <sub>c</sub>                                                     | 16 mm      |
| Helix angle                                                                     | 45 degrees |
| Feed f <sub>z</sub> for copy milling in stainless steel < 900 N/mm <sup>2</sup> | 0.051 mm   |
| No. of teeth Z                                                                  | 4          |

|                                                             |                                  |
|-------------------------------------------------------------|----------------------------------|
| Feed $f_z$ for side milling in INOX < 900 N/mm <sup>2</sup> | 0.045 mm                         |
| Cutting edge Ø $D_c$                                        | 12 mm                            |
| Overall length L                                            | 73 mm                            |
| Radius R                                                    | 6 mm                             |
| Series                                                      | GARANT Master INOX               |
| Coating                                                     | TiAlN                            |
| Tool material                                               | Solid carbide                    |
| Standard                                                    | Manufacturer's standard          |
| Type                                                        | N                                |
| Tolerance nominal Ø                                         | f8                               |
| Direction of infeed                                         | horizontal, oblique and vertical |
| Cutting width $a_e$ for milling operation                   | Full slot cutting depth 1×D      |
| Cutting width $a_e$ for milling operation                   | 0.05×D for side milling          |
| Shank                                                       | DIN 6535 HA to h6                |
| Through-coolant                                             | no                               |
| Machining strategy                                          | HPC                              |
| Colour ring                                                 | blue                             |
| Type of product                                             | End mill                         |

## Services

|                                                                                       |             |
|---------------------------------------------------------------------------------------|-------------|
| Shank recess Type FRST                                                                | 209900 FRST |
| Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 12 mm | SZ2025 12   |
| Shank grinding Type HB                                                                | 129100 HB   |