

## Garant

### GARANT Master INOX M SlotMachine solid carbide roughing end mill HPC, TiAlN, Ø d11 DC: 16 mm



#### Order data

|              |               |
|--------------|---------------|
| Order number | 205448 16     |
| GTIN         | 4062406276034 |
| Item class   | 11X           |

#### Description

##### Version:

With a **new-type knurled profile**, optimised for higher feed rates in INOX. Improved cutting edge protection thanks to slight edge honing. **Tremendous bending strength** due to the use of **ultra-fine grain substrate**. Number of teeth tailored to performance and process reliability.

##### Advantage:

The tool geometry produces particularly tightly rolled swarf that is discharged via flat chip breaker recesses. As a result, the tool maintains an **extremely stable core**.

##### Application:

For roughing machining, particularly suitable for full-slot machining.

Tolerance nominal Ø: d11

No. of teeth Z: 5

Helix angle: 40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 5

Flute length  $L_c$ : 22 mm

Overall length L: 82 mm

Shank Ø  $D_s$ : 16 mm

Corner chamfer width at 45°: 0.35 mm

Feed  $f_z$  for slot milling in stainless steel > 900 N/mm<sup>2</sup>: 0.05 mm

#### Technical description

|                      |       |
|----------------------|-------|
| Cutting edge Ø $D_c$ | 16 mm |
|----------------------|-------|

|  |                                  |
|--|----------------------------------|
| Shank $\varnothing D_s$  | 16 mm                            |
| Overall length L   | 82 mm                            |
| Shank  | DIN 6535 HB to h6                |
| Direction of infeed  | horizontal, oblique and vertical |
| Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>            | 0.06 mm                          |
| Feed $f_z$ for slot milling in stainless steel > 900 N/mm <sup>2</sup> | 0.05 mm                          |
| Tolerance nominal $\varnothing$  | d11                              |
| Corner chamfer angle   | 45 degrees                       |
| Helix angle  | 40 degrees                       |
| Corner chamfer width at 45°  | 0.35 mm                          |
| Flute length $L_c$   | 22 mm                            |
| No. of teeth Z   | 5                                |
| Series   | GARANT Master INOX               |
| Coating  | TiAlN                            |
| Tool material  | Solid carbide                    |
| Standard   | DIN 6527                         |
| Milling profile  | NR                               |
| Cutting width $a_e$ for milling operation                              | Full slot cutting depth 1xD      |
| Cutting width $a_e$ for milling operation                              | 0.5xD for side milling           |
| Through-coolant  | no                               |
| Machining strategy   | HPC                              |
| Colour ring  | blue                             |
| Type of product  | End mill                         |