

**Garant**
**GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 8 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 203039 8      |
| GTIN         | 4062406230913 |
| Item class   | 11X           |

**Description**
**Version:**

For **roughing and finishing**.

Up to 1.5xD into solid material **at very high feed rates** with smooth cutting action.

**Advantage:**

Optimised flute form, eccentric relief ground, generous chip spaces.

Tolerance nominal Ø: f8

No. of teeth Z: 4

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 21 mm

Overhang length  $L_1$  incl. recess: 25 mm

Recess Ø  $D_1$ : 7.8 mm

Overall length L: 63 mm

Shank Ø  $D_s$ : 8 mm

**Technical description**

|                                                             |            |
|-------------------------------------------------------------|------------|
| Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$ | 0.06 mm    |
| Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$ | 0.05 mm    |
| Overhang length $L_1$ incl. recess                          | 25 mm      |
| Helix angle                                                 | 38 degrees |
| Tolerance nominal Ø                                         | f8         |

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| Flute length $L_c$                        | 21 mm                                |
| Shank $\varnothing D_s$                   | 8 mm                                 |
| Direction of infeed                       | horizontal, oblique and vertical     |
| Corner chamfer width at 45°               | 0.1 mm                               |
| Recess $\varnothing D_1$                  | 7.8 mm                               |
| Cutting edge $\varnothing D_c$            | 8 mm                                 |
| No. of teeth Z                            | 4                                    |
| Shank                                     | DIN 6535 HB to h6                    |
| Overall length L                          | 63 mm                                |
| Corner chamfer angle                      | 45 degrees                           |
| Series                                    | GARANT Master Steel                  |
| Coating                                   | TiAlN                                |
| Tool material                             | Solid carbide                        |
| Standard                                  | DIN 6527                             |
| Type                                      | N                                    |
| Helix angle characteristic                | unequal spacing                      |
| Spacing of the cutters                    | unequal spacing                      |
| Cutting width $a_e$ for milling operation | Full slot cutting depth $1 \times D$ |
| Cutting width $a_e$ for milling operation | $0.03 \times D$ for copy milling     |
| Through-coolant                           | no                                   |
| Machining strategy                        | HPC                                  |
| Colour ring                               | green                                |
| Type of product                           | End mill                             |