

Garant

GARANT Master Steel solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 1/0,2 mm



Order data

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|--------------|---------------|
| Order number | 206333 1/0,2 |
| GTIN | 4062406276140 |
| Item class | 11X |

Description

Version:

HPC milling cutter with **newly developed high-performance coating**. For **outstanding tool life** and **optimum metal removal rates** in a range of materials.

With **double relief ground side clearance angle**.

Tolerance: Corner radius R_1

Radius size 0.1 mm – 1 mm: $R_1 = \pm 0.003$ mm.

Radius size > 1.0 mm – 1 mm : $R_1 = \pm 0.005$ mm.

Advantage:

Optimised flute form, eccentric relief ground, wide chip space.

Application:

Especially for **high speed machining** in **mould and tool making** for **copy milling**. Excellent results for **dry milling**.

No. of teeth Z: 4

Helix angle: 30 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length L_c : 1.5 mm

Corner radius R_1 : 0.2 mm

Overhang length L_1 incl. recess: 10 mm

minimum shank recess dia. D_5 : 0.85 mm

maximum shank recess dia. D_6 : 0.95 mm

Technical description

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|--------------------|--------|
| Flute length L_c | 1.5 mm |
|--------------------|--------|

| | |
|--|----------------------------------|
| Shank | DIN 6535 HA to h6 |
| Overall length L | 50 mm |
| No. of teeth Z | 4 |
| Overhang length L_1 incl. recess | 10 mm |
| Feed f_z for copy milling in steel $< 1100 \text{ N/mm}^2$ | 0.006 mm |
| Feed f_z for side milling in steel $< 1100 \text{ N/mm}^2$ | 0.005 mm |
| Helix angle | 30 degrees |
| Shank $\varnothing D_s$ | 3 mm |
| Cutting edge $\varnothing D_c$ | 1 mm |
| Corner radius R_1 | 0.2 mm |
| minimum shank recess dia. D_5 | 0.85 mm |
| maximum shank recess dia. D_6 | 0.95 mm |
| Series | GARANT Master Steel |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | Manufacturer's standard |
| Type | H |
| Tolerance nominal \varnothing | e8 |
| Direction of infeed | horizontal, oblique and vertical |
| Cutting width a_e for milling operation | $0.03 \times D$ for copy milling |
| Cutting width a_e for milling operation | $0.2 \times D$ for side milling |
| Through-coolant | no |
| Machining strategy | HPC |
| Colour ring | green |
| Type of product | End mill |