

Garant

GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 20/1,0 mm



Order data

| | |
|--------------|---------------|
| Order number | 206364 20/1,0 |
| GTIN | 4045197991980 |
| Item class | 11Z |

Description

Version:

Tolerance: Corner radius $R_1 = \pm 0.005$ mm.

Application:

For milling **titanium and titanium alloys**; with very smooth cutting action for optimum tool life and top metal removal rate.

No. of teeth Z: 4

Helix angle: 40 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length L_c : 41 mm

Corner radius R_1 : 1 mm

Overhang length L_1 incl. recess: 54 mm

Recess Ø D_1 : 19.5 mm

Overall length L: 104 mm

Technical description

| | |
|---|---------|
| Overhang length L_1 incl. recess | 54 mm |
| Feed f_z for copy milling in titanium > 850 N/mm ² | 0.1 mm |
| No. of teeth Z | 4 |
| Flute length L_c | 41 mm |
| Feed f_z for side milling in titanium > 850 N/mm ² | 0.08 mm |
| Shank Ø D_s | 20 mm |

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|---|----------------------------------|
| Correction factor for v_c | 1.5 |
| Recess $\varnothing D_1$ | 19.5 mm |
| Cutting edge $\varnothing D_c$ | 20 mm |
| Overall length L | 104 mm |
| Helix angle | 40 degrees |
| Shank | DIN 6535 HA to h6 |
| Corner radius R_1 | 1 mm |
| Series | GARANT Master Titan |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | DIN 6527 |
| Type | N |
| Tolerance nominal \varnothing | e8 |
| Helix angle characteristic | unequal spacing |
| Spacing of the cutters | unequal spacing |
| Direction of infeed | horizontal, oblique and vertical |
| Cutting width a_e for milling operation | 0.3×D for side milling |
| Cutting width a_e for milling operation | 0.5×D for side milling |
| Through-coolant | no |
| Machining strategy | HPC |
| Shank tolerance | h6 |
| Colour ring | pink |
| Type of product | End mill |

Services

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|------------------------|-----------|
| Shank grinding Type HB | 129100 HB |
|------------------------|-----------|