

Garant

GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 16/2,5mm



Order data

| | |
|--------------|---------------|
| Order number | 206364 16/2,5 |
| GTIN | 4045197991966 |
| Item class | 11Z |

Description

Version:

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

Application:

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

Technical description

| | |
|--|-------------------|
| Overall length L | 92 mm |
| Feed f_z for side milling in titanium $> 850 \text{ N/mm}^2$ | 0.065 mm |
| Cutting edge Ø D_c | 16 mm |
| Overhang length L_1 incl. recess | 44 mm |
| Recess Ø D_1 | 15.5 mm |
| Feed f_z for copy milling in titanium $> 850 \text{ N/mm}^2$ | 0.08 mm |
| Correction factor for v_c | 1.5 |
| Shank | DIN 6535 HA to h6 |
| Shank Ø D_s | 16 mm |
| Flute length L_c | 32 mm |
| Helix angle | 40 degrees |
| No. of teeth Z | 4 |

| | |
|---|----------------------------------|
| Corner radius R_1 | 2.5 mm |
| 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 | Torus cutter |

User data

| | Suitability | V_c | ISO code |
|----------------------------|-------------|----------|----------|
| Ti > 850 N/mm ² | suitable | 60 m/min | S |
| wet maximum | suitable | | |

Services

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