

Garant
GARANT Master Titan solid carbide milling cutter HPC, TiAlN, Ø DC: 10mm

Order data

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|--------------|---------------|
| Order number | 203029 10 |
| GTIN | 4045197991782 |
| Item class | 11Z |

Description
Version:

Specially ground with **corner radii similar to torus cutters.**

Application:

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

Technical description

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|----------------------------------------------------------------|----------------------------------|
| Overhang length L_1 incl. recess | 32 mm |
| Feed f_z for side milling in titanium $> 850 \text{ N/mm}^2$ | 0.042 mm |
| Shank $\varnothing D_s$ | 10 mm |
| Feed f_z for slot milling in titanium $> 850 \text{ N/mm}^2$ | 0.034 mm |
| Cutting edge $\varnothing D_c$ | 10 mm |
| Recess $\varnothing D_1$ | 9.7 mm |
| No. of teeth Z | 4 |
| Direction of infeed | horizontal, oblique and vertical |
| Helix angle | 40 degrees |
| Tolerance nominal \varnothing | e8 |
| Shank | DIN 6535 HA to h6 |
| Flute length L_c | 22 mm |

| | |
|-------------------------------------------|--------------------------------------|
| Overall length L | 72 mm |
| Corner rounding r_v | 0.2 mm |
| Series | Master Titan |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | DIN 6527 |
| Type | N |
| 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 | $0.3 \times D$ for side milling |
| Through-coolant | no |
| Machining strategy | HPC |
| Colour ring | pink |
| Type of product | End / face mill |

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 |
|------------------------|-----------|