

Garant

GARANT Master Titan solid carbide milling cutter HPC/TPC, TiAlN, Ø e8 DC: 6mm



Order data

| | |
|--------------|---------------|
| Order number | 203157 6 |
| GTIN | 4045197989758 |
| Item class | 11Z |

Description

Version:

For roughing and finishing at very high feed rates and smooth cutting action for the best tool life and high metal removal rate.

Specially ground with corner radii similar to torus cutters and **special coating**.

Dimensions to DIN 6527 long.

Application:

For milling **titanium and titanium alloys**.

Note:

Can be reground when used as a TPC milling cutter.

Technical description

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|--|----------------------------------|
| Direction of infeed | horizontal, oblique and vertical |
| Flute length L_c | 13 mm |
| Cutting edge $\varnothing D_c$ | 6 mm |
| Tolerance nominal \varnothing | e8 |
| No. of teeth Z | 5 |
| Feed f_z for side milling in titanium $> 850 \text{ N/mm}^2$ | 0.026 mm |
| Feed f_z for slot milling in titanium $> 850 \text{ N/mm}^2$ | 0.022 mm |
| Shank | DIN 6535 HA to h6 |
| Overhang length L_1 incl. recess | 20 mm |

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|---|--------------------------------------|
| Recess $\varnothing D_1$ | 5.8 mm |
| Shank $\varnothing D_s$ | 6 mm |
| Overall length L | 57 mm |
| Helix angle | 40 degrees |
| Corner rounding r_v | 0.1 mm |
| Series | Master Titan |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | DIN 6527 |
| Type | N |
| 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 |
| Cutting width a_e for milling operation | $0,08 \times D$ |
| Through-coolant | no |
| Machining strategy | HPC |
| Machining strategy | TPC |
| 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

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