

**Garant**
**GARANT Master Titan solid carbide milling cutter HPC, TiAlN, Ø DC: 5 mm**

**Order data**

Order number	203029 5
GTIN	4045197991751
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.

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length  $L_c$ : 13 mm

Overhang length  $L_1$  incl. recess: 18 mm

Recess Ø  $D_1$ : 4.8 mm

Overall length L: 57 mm

Shank Ø  $D_s$ : 6 mm

**Technical description**

Flute length $L_c$	13 mm
Feed $f_z$ for side milling in titanium > 850 N/mm <sup>2</sup>	0.022 mm
Feed $f_z$ for slot milling in titanium > 850 N/mm <sup>2</sup>	0.018 mm
Recess Ø $D_1$	4.8 mm
Shank Ø $D_s$	6 mm

Helix angle	40 degrees
Tolerance nominal $\varnothing$	e8
No. of teeth Z	4
Overall length L	57 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HA to h6
Cutting edge $\varnothing D_c$	5 mm
Overhang length $L_1$ incl. recess	18 mm
Corner rounding $r_v$	0.2 mm
Series	GARANT 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 mill

## Services

Shank grinding Type HB

129100 HB