

**Garant**
**GARANT Master Titan solid carbide milling cutter HPC, TiAlN, Ø DC: 6mm**

**Order data**

Order number	203029 6
GTIN	4045197991768
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**

Flute length $L_c$	13 mm
Feed $f_z$ for side milling in titanium > 850 N/mm <sup>2</sup>	0.026 mm
Direction of infeed	horizontal, oblique and vertical
Tolerance nominal $\varnothing$	e8
No. of teeth Z	4
Cutting edge $\varnothing D_c$	6 mm
Overhang length $L_1$ incl. recess	20 mm
Feed $f_z$ for slot milling in titanium > 850 N/mm <sup>2</sup>	0.022 mm
Shank	DIN 6535 HA to h6
Overall length L	57 mm
Helix angle	40 degrees
Recess $\varnothing D_1$	5.8 mm

Shank $\varnothing D_s$	6 mm
Corner rounding $r_v$	0.1 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 <sup>2</sup>	suitable	60 m/min	S
wet maximum	suitable		

### Services

Shank grinding Type HB	129100 HB
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