

**Garant**
**GARANT Master Titan solid carbide milling cutter HPC, TiAlN, Ø DC: 16mm**

**Order data**

Order number	203029 16
GTIN	4045197991805
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**

Recess Ø D <sub>1</sub>	15.5 mm
Shank Ø D <sub>s</sub>	16 mm
Feed f <sub>z</sub> for slot milling in titanium > 850 N/mm <sup>2</sup>	0.05 mm
Feed f <sub>z</sub> for side milling in titanium > 850 N/mm <sup>2</sup>	0.065 mm
Helix angle	40 degrees
Shank	DIN 6535 HA to h6
Flute length L <sub>c</sub>	32 mm
Direction of infeed	horizontal, oblique and vertical
Cutting edge Ø D <sub>c</sub>	16 mm
Overall length L	92 mm
Overhang length L <sub>1</sub> incl. recess	44 mm
No. of teeth Z	4

Tolerance nominal $\varnothing$	e8
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 <sup>2</sup>	suitable	60 m/min	S
wet maximum	suitable		

### Services

Shank grinding Type HB	129100 HB
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