

## Garant

### GARANT Master Titan solid carbide milling cutter HPC/TPC, TiAlN, Ø e8 DC: 12mm



#### Order data

Order number	203157 12
GTIN	4045197989789
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

Overall length L	83 mm
Flute length L <sub>c</sub>	26 mm
Feed f <sub>z</sub> for side milling in titanium > 850 N/mm <sup>2</sup>	0.05 mm
Helix angle	40 degrees
Recess Ø D <sub>1</sub>	11.6 mm
Shank Ø D <sub>s</sub>	12 mm
Overhang length L <sub>1</sub> incl. recess	38 mm
No. of teeth Z	5
Direction of infeed	horizontal, oblique and vertical

Cutting edge $\varnothing D_c$	12 mm
Feed $f_z$ for slot milling in titanium $> 850 \text{ N/mm}^2$	0.04 mm
Shank	DIN 6535 HA to h6
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
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 $> 850 \text{ N/mm}^2$	suitable	60 m/min	S
wet maximum	suitable		

## Services

Shank grinding Type HB	129100 HB
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