

**Garant**
**GARANT Master Titan solid carbide milling cutter HPC/TPC, TiAlN, Ø e8 DC: 4mm**

**Order data**

Order number	203157 4
GTIN	4045197989734
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**

Feed $f_z$ for side milling in titanium $> 850 \text{ N/mm}^2$	0.018 mm
Overall length L	57 mm
Recess $\varnothing D_1$	3.8 mm
Flute length $L_c$	11 mm
Shank $\varnothing D_s$	6 mm
Feed $f_z$ for slot milling in titanium $> 850 \text{ N/mm}^2$	0.015 mm
Cutting edge $\varnothing D_c$	4 mm
Direction of infeed	horizontal, oblique and vertical
Overhang length $L_1$ incl. recess	16 mm

No. of teeth Z	5
Shank	DIN 6535 HA to h6
Helix angle	40 degrees
Tolerance nominal $\varnothing$	e8
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 <sup>2</sup>	suitable	60 m/min	S
wet maximum	suitable		

## Services

Shank grinding Type HB	129100 HB
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