

## Garant

### GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 6/0,5mm



#### Order data

Order number	206364 6/0,5
GTIN	4045197991836
Item class	11Z

#### Description

##### Version:

Tolerance: Corner radius  $R_1 = \pm 0.005 \text{ mm}$ .

##### Application:

For milling **titanium and titanium alloys**; with very smooth cutting action for optimum tool life and top metal removal rate.

#### Technical description

Cutting edge $\varnothing D_c$	6 mm
Flute length $L_c$	13 mm
Feed $f_z$ for copy milling in titanium $> 850 \text{ N/mm}^2$	0.03 mm
Helix angle	40 degrees
Correction factor for $v_c$	1.5
Feed $f_z$ for side milling in titanium $> 850 \text{ N/mm}^2$	0.026 mm
Overhang length $L_1$ incl. recess	20 mm
Corner radius $R_1$	0.5 mm
Recess $\varnothing D_1$	5.8 mm
Shank	DIN 6535 HA to h6
Overall length $L$	57 mm
Shank $\varnothing D_s$	6 mm

No. of teeth Z	4
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Tolerance nominal $\varnothing$	e8
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.3×D for side milling
Cutting width $a_e$ for milling operation	0.5×D for side milling
Through-coolant	no
Machining strategy	HPC
Shank tolerance	h6
Colour ring	pink
Type of product	Torus cutter

## 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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