

## Garant

### GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 12/3,0 mm



#### Order data

Order number	206364 12/3,0
GTIN	4062406360580
Item class	11Z

#### Description

##### Version:

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

##### Application:

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

No. of teeth Z: 4

Helix angle: 40 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length  $L_c$ : 26 mm

Corner radius  $R_1$ : 3 mm

Overhang length  $L_1$  incl. recess: 38 mm

Recess  $\varnothing D_1$ : 11.6 mm

Overall length L: 83 mm

#### Technical description

Flute length $L_c$	26 mm
Correction factor for $v_c$	1.5
Cutting edge $\varnothing D_c$	12 mm
Overall length L	83 mm
Feed $f_z$ for copy milling in titanium $> 850$ N/mm <sup>2</sup>	0.07 mm
Shank	DIN 6535 HA to h6

No. of teeth Z	4
Recess $\varnothing D_1$	11.6 mm
Feed $f_z$ for side milling in titanium $> 850 \text{ N/mm}^2$	0.05 mm
Overhang length $L_1$ incl. recess	38 mm
Corner radius $R_1$	3 mm
Shank $\varnothing D_s$	12 mm
Helix angle	40 degrees
Series	GARANT Master Titan
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	$0.3 \times D$ for side milling
Cutting width $a_e$ for milling operation	$0.5 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Shank tolerance	h6
Colour ring	pink
Type of product	End mill