

## Garant

### GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 20/2,5 mm



#### Order data

Order number	206364 20/2,5
GTIN	4045197992000
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  $L_c$ : 41 mm

Corner radius  $R_1$ : 2.5 mm

Overhang length  $L_1$  incl. recess: 54 mm

Recess Ø  $D_1$ : 19.5 mm

Overall length L: 104 mm

#### Technical description

Corner radius $R_1$	2.5 mm
Helix angle	40 degrees
Cutting edge Ø $D_c$	20 mm
No. of teeth Z	4
Recess Ø $D_1$	19.5 mm
Feed $f_z$ for copy milling in titanium $> 850$ N/mm <sup>2</sup>	0.1 mm

Shank $\varnothing D_s$	20 mm
Shank	DIN 6535 HA to h6
Flute length $L_c$	41 mm
Overall length $L$	104 mm
Overhang length $L_1$ incl. recess	54 mm
Correction factor for $v_c$	1.5
Feed $f_z$ for side milling in titanium $> 850 \text{ N/mm}^2$	0.08 mm
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×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	End mill

## Services

Shank grinding Type HB	129100 HB
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