

## Garant

### GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 10/1,0mm



#### Order data

Order number	206364 10/1,0
GTIN	4045197991881
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.

#### Technical description

Flute length $L_c$	22 mm
Overhang length $L_1$ incl. recess	32 mm
Shank	DIN 6535 HA to h6
Correction factor for $v_c$	1.5
Shank $\varnothing D_s$	10 mm
Overall length $L$	72 mm
Feed $f_z$ for side milling in titanium $> 850$ N/mm <sup>2</sup>	0.042 mm
Corner radius $R_1$	1 mm
Helix angle	40 degrees
Recess $\varnothing D_1$	9.7 mm
No. of teeth $Z$	4
Cutting edge $\varnothing D_c$	10 mm

Feed $f_z$ for copy milling in titanium > 850 N/mm <sup>2</sup>	0.055 mm
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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