

Garant
**GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1:
4/0,5mm**

Order data

Order number	206364 4/0,5
GTIN	4045197991539
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 °

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length L_c : 11 mm

Corner radius R_1 : 0.5 mm

Overhang length L_1 incl. recess: 16 mm

Recess Ø D_1 : 3.8 mm

Overall length L: 57 mm

Technical description

Correction factor for v_c	1.5
Shank Ø D_s	6 mm
Overall length L	57 mm
Feed f_z for copy milling in titanium > 850 N/mm ²	0.02 mm
Feed f_z for side milling in titanium > 850 N/mm ²	0.018 mm
Corner radius R_1	0.5 mm

Overhang length L_1 incl. recess	16 mm
Recess $\varnothing D_1$	3.8 mm
Cutting edge $\varnothing D_c$	4 mm
Flute length L_c	11 mm
No. of teeth Z	4
Shank	DIN 6535 HA to h6
Helix angle	40 °
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 ²	suitable	60 m/min	S
wet maximum	suitable		

Services

Shank grinding Type HB

129100 HB