

Garant

GARANT Master Titan solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 5/1,0mm



Order data

Order number	206364 5/1,0
GTIN	4045197991829
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

Shank $\varnothing D_s$	6 mm
Shank	DIN 6535 HA to h6
Overall length L	57 mm
Recess $\varnothing D_1$	4.8 mm
Feed f_z for copy milling in titanium $> 850 \text{ N/mm}^2$	0.03 mm
No. of teeth Z	4
Cutting edge $\varnothing D_c$	5 mm
Helix angle	40 degrees
Corner radius R_1	1 mm
Correction factor for v_c	1.5
Overhang length L_1 incl. recess	18 mm
Feed f_z for side milling in titanium $> 850 \text{ N/mm}^2$	0.022 mm

Flute length L_c	13 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 ²	suitable	60 m/min	S
wet maximum	suitable		

Services

Shank grinding Type HB	129100 HB
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