

Garant

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



Order data

Order number	206364 20/2,5
GTIN	4045197992000
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

Corner radius R_1	2.5 mm
Helix angle	40 degrees
Cutting edge $\varnothing D_c$	20 mm
No. of teeth Z	4
Recess $\varnothing D_1$	19.5 mm
Feed f_z for copy milling in titanium $> 850 \text{ N/mm}^2$	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 N/mm ²	0.08 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
------------------------	-----------