

Garant
GARANT Master Titan solid carbide milling cutter HPC, TiAlN, Ø DC: 20 mm

Order data

Order number	203029 20
GTIN	4045197991812
Item class	11Z

Description
Version:

Specially ground with **corner radii similar to torus cutters.**

Application:

For milling **titanium and titanium alloys**, with very smooth cutting action for optimum tool lives and top metal removal rate.

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length L_c : 41 mm

Overhang length L_1 incl. recess: 54 mm

Recess Ø D_1 : 19.5 mm

Overall length L: 104 mm

Shank Ø D_s : 20 mm

Technical description

No. of teeth Z	4
Shank	DIN 6535 HA to h6
Overhang length L_1 incl. recess	54 mm
Cutting edge Ø D_c	20 mm
Feed f_z for side milling in titanium > 850 N/mm ²	0.08 mm

Recess $\varnothing D_1$	19.5 mm
Direction of infeed	horizontal, oblique and vertical
Flute length L_c	41 mm
Helix angle	40 degrees
Feed f_z for slot milling in titanium > 850 N/mm ²	0.06 mm
Overall length L	104 mm
Shank $\varnothing D_s$	20 mm
Tolerance nominal \varnothing	e8
Corner rounding r_v	0.3 mm
Series	GARANT Master Titan
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	Full slot cutting depth 1xD
Cutting width a_e for milling operation	0.3xD for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	pink
Type of product	End mill

Services

Shank grinding Type HB	129100 HB
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