

Garant
GARANT Master Titan solid carbide milling cutter HPC, TiAlN, Ø DC: 12mm

Order data

Order number	203029 12
GTIN	4045197991799
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 life and top metal removal rate.

Technical description

Feed f_z for slot milling in titanium $> 850 \text{ N/mm}^2$	0.04 mm
Overall length L	83 mm
Shank	DIN 6535 HA to h6
No. of teeth Z	4
Tolerance nominal \varnothing	e8
Direction of infeed	horizontal, oblique and vertical
Feed f_z for side milling in titanium $> 850 \text{ N/mm}^2$	0.05 mm
Helix angle	40 degrees
Shank $\varnothing D_s$	12 mm
Overhang length L_1 incl. recess	38 mm
Cutting edge $\varnothing D_c$	12 mm
Recess $\varnothing D_1$	11.6 mm

Flute length L_c	26 mm
Corner rounding r_v	0.2 mm
Series	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 $1 \times D$
Cutting width a_e for milling operation	$0.3 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	pink
Type of product	End / face mill

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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