

Garant
**GARANT Master Ni-Based solid carbide milling cutter HPC/TPC, TiAlN, Ø e8
DC: 12 mm**

Order data

Order number	203161 12
GTIN	4062406565824
Item class	11Z

Description
Version:

Specially ground with **Torus-like corner radius**.

Innovative substrate specially for machining **nickel-based alloys**. Newly developed coating.

Application:

For milling **nickel-based alloys with high red hardness**.

Note:

Successor product to No. 203082.

Tolerance nominal Ø: e8

No. of teeth Z: 5

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 5

Flute length L_c : 26 mm

Overhang length L_1 incl. recess: 36 mm

Recess Ø D_1 : 11.6 mm

Overall length L: 83 mm

Shank Ø D_s : 12 mm

Technical description

Direction of infeed	horizontal, oblique and vertical
Flute length L_c	26 mm

No. of teeth Z	5
Recess $\varnothing D_1$	11.6 mm
Helix angle	38 degrees
Corner rounding r_v	0.2 mm
Overhang length L_1 incl. recess	36 mm
Shank	DIN 6535 HB to h6
Balance quality with shank	G 2.5 with HB
Tolerance nominal $\varnothing$	e8
Shank $\varnothing D_s$	12 mm
Cutting edge $\varnothing D_c$	12 mm
Feed f_z for side milling in Inconel®	0.075 mm
Overall length L	83 mm
Series	GARANT Master Ni-Based
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.3×D for side milling
Cutting width a_e for milling operation	0,08×D
Cutting width a_e for milling operation	0,08×D
Through-coolant	no
Machining strategy	HPC
Machining strategy	HPC
Colour ring	pink
Type of product	End mill

