

## Garant

### GARANT Master Ni-Based solid carbide milling cutter HPC/TPC, TiAlN, Ø e8 DC: 5 mm



#### Order data

Order number	203161 5
GTIN	4062406565787
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  $L_c$ : 13 mm

Overhang length  $L_1$  incl. recess: 19 mm

Recess Ø  $D_1$ : 4.8 mm

Overall length L: 57 mm

Shank Ø  $D_s$ : 6 mm

#### Technical description

Helix angle	38 degrees
Tolerance nominal Ø	e8

Corner rounding $r_v$	0.1 mm
Cutting edge $\varnothing D_c$	5 mm
Recess $\varnothing D_1$	4.8 mm
Overhang length $L_1$ incl. recess	19 mm
Balance quality with shank	G 2.5 with HB
Feed $f_z$ for side milling in Inconel®	0.04 mm
Shank $\varnothing D_s$	6 mm
Overall length L	57 mm
Flute length $L_c$	13 mm
No. of teeth Z	5
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
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

