

**Garant**
**GARANT Master Ni-Based solid carbide milling cutter HPC / TPC, TiAlN, Ø DC: 4 mm**

**Order data**

Order number	203048 4
GTIN	4062406565497
Item class	11Z

**Description**
**Version:**

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

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. 203028.**

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 35 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 11 mm

Overhang length  $L_1$  incl. recess: 19 mm

Recess Ø  $D_1$ : 3.8 mm

Overall length L: 57 mm

Shank Ø  $D_s$ : 6 mm

**Technical description**

Corner rounding $r_v$	0.1 mm
No. of teeth Z	4
Overall length L	57 mm

Tolerance nominal Ø	e8
Direction of infeed	horizontal, oblique and vertical
Shank Ø D <sub>s</sub>	6 mm
Recess Ø D <sub>1</sub>	3.8 mm
Helix angle	35 degrees
Cutting edge Ø D <sub>c</sub>	4 mm
Shank	DIN 6535 HB to h6
Feed f <sub>z</sub> for side milling in Inconel®	0.035 mm
Overhang length L <sub>1</sub> incl. recess	19 mm
Flute length L <sub>c</sub>	11 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 <sub>e</sub> for milling operation	0,08×D
Through-coolant	no
Machining strategy	TPC
Machining strategy	HPC
Colour ring	pink
Type of product	End mill

## Services

Shank grinding Type HB	129100 HB
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