

**Garant**
**GARANT Master INOX solid carbide milling cutter HPC, TiAlN, Ø h10 DC: 5mm**

**Order data**

Order number	203006 5
GTIN	4045197851772
Item class	11X

**Description**
**Version:**

For **roughing and finishing**.

HPC milling cutter with **newly developed high-performance coating** for **outstanding tool life** and **optimum metal removal rate** in a very wide range of stainless steels. **Greater oxidation resistance** and **high-temperature hardness**.

Can be used at **high cutting speeds**, particularly suitable even for TOOLOX®.

**Advantage:**

Particularly low vibration running.

Tolerance nominal Ø: h10

No. of teeth Z: 4

Helix angle: 40 °

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 13 mm

Overhang length  $L_1$  incl. recess: 25 mm

Recess Ø  $D_1$ : 4.8 mm

Overall length L: 62 mm

Shank Ø  $D_s$ : 6 mm

**Technical description**

Direction of infeed	horizontal, oblique and vertical
Tolerance nominal Ø	h10
Shank Ø $D_s$	6 mm

Feed $f_z$ for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.025 mm
Cutting edge $\varnothing D_c$	5 mm
Shank	DIN 6535 HB to h6
Corner chamfer width at $45^\circ$	0.25 mm
Flute length $L_c$	13 mm
Recess $\varnothing D_1$	4.8 mm
Feed $f_z$ for side milling in INOX $> 900 \text{ N/mm}^2$	0.025 mm
Overhang length $L_1$ incl. recess	25 mm
Overall length $L$	62 mm
No. of teeth $Z$	4
Helix angle	$40^\circ$
Corner chamfer angle	$45^\circ$
Series	Master Inox
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
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	blue
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel $< 500 \text{ N/mm}^2$	suitable	240 m/min	P

Steel < 750 N/mm <sup>2</sup>	suitable	220 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	115 m/min	P
Steel < 50 HRC	suitable	80 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	100 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	85 m/min	M
wet maximum	suitable		
wet minimum	suitable		
dry	Suitable only under restricted conditions		
Air	suitable		