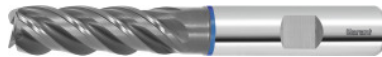


**Garant**
**GARANT Master INOX solid carbide milling cutter HPC / TPC, TiAlN, Ø h10 DC: 5mm**

**Order data**

Order number	203011 5
GTIN	4045197851840
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<sub>c</sub>: 18 mm

Overhang length L<sub>1</sub> incl. recess: 25 mm

Recess Ø D<sub>1</sub>: 4.8 mm

Overall length L: 62 mm

Shank Ø D<sub>s</sub>: 6 mm

**Technical description**

Shank	DIN 6535 HB to h6
Overhang length L <sub>1</sub> incl. recess	25 mm
Direction of infeed	horizontal, oblique and vertical

Feed $f_z$ for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.025 mm
No. of teeth Z	4
Tolerance nominal $\varnothing$	h10
Cutting edge $\varnothing D_c$	5 mm
Feed $f_z$ for side milling in INOX $> 900 \text{ N/mm}^2$	0.025 mm
Flute length $L_c$	18 mm
Recess $\varnothing D_1$	4.8 mm
Shank $\varnothing D_s$	6 mm
Corner chamfer width at $45^\circ$	0.25 mm
Overall length L	62 mm
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	$0.08 \times D$
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Machining strategy	TPC
Colour ring	blue
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
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Steel < 500 N/mm <sup>2</sup>	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		