

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

**Order data**

Order number	202999 5
GTIN	4062406233655
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®.

With **internal coolant supply** for reliable chip evacuation.

**Advantage:**

Particularly low vibration running.

**Technical description**

No. of teeth Z	4
Recess Ø D <sub>1</sub>	4.7 mm
Overhang length L <sub>1</sub> incl. recess	22 mm
Direction of infeed	horizontal, oblique and vertical
Feed f <sub>z</sub> for side milling in INOX > 900 N/mm <sup>2</sup>	0.025 mm
Corner chamfer width at 45°	0.25 mm
Flute length L <sub>c</sub>	13 mm
Cutting edge Ø D <sub>c</sub>	5 mm
Shank	DIN 6535 HB to h6

Tolerance nominal $\varnothing$	h10
Feed $f_z$ for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.025 mm
Shank $\varnothing D_s$	6 mm
Helix angle	40 degrees
Overall length L	57 mm
Corner chamfer angle	45 degrees
Series	Master INOX
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	Full slot cutting depth $1 \times D$
Cutting width $a_e$ for milling operation	$0.1 \times D$
Through-coolant	yes
Machining strategy	TPC
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	250 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	230 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	200 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	180 m/min	P
Steel $< 1400 \text{ N/mm}^2$	suitable	115 m/min	P
Steel $< 50 \text{ HRC}$	suitable	80 m/min	H

INOX < 900 N/mm <sup>2</sup>	suitable	110 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	90 m/min	M
wet maximum	suitable		
Air	suitable		