

**Garant**
**GARANT Master INOX solid carbide milling cutter HPC / TPC, TiAlN, Ø h10 DC: 10mm**

**Order data**

Order number	202999 10
GTIN	4062406233686
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**

Cutting edge Ø D <sub>c</sub>	10 mm
Direction of infeed	horizontal, oblique and vertical
No. of teeth Z	4
Shank	DIN 6535 HB to h6
Shank Ø D <sub>s</sub>	10 mm
Tolerance nominal Ø	h10
Feed f <sub>z</sub> for slot milling in stainless steel > 900 N/mm <sup>2</sup>	0.04 mm
Helix angle	40 degrees
Feed f <sub>z</sub> for side milling in INOX > 900 N/mm <sup>2</sup>	0.045 mm

Recess $\varnothing D_1$	9.5 mm
Corner chamfer width at 45°	0.25 mm
Overall length L	72 mm
Flute length $L_c$	22 mm
Overhang length $L_1$ incl. recess	34 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 N/mm <sup>2</sup>	suitable	250 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	230 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	200 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	110 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	90 m/min	M
wet maximum	suitable		
Air	suitable		