

## Garant

### GARANT Master INOX solid carbide milling cutter HPC / TPC, TiAlN, Ø h10 DC: 20 mm



#### Order data

Order number	202999 20
GTIN	4062406233815
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.

Tolerance nominal Ø: h10

No. of teeth Z: 4

Helix angle: 40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 38 mm

Overhang length  $L_1$  incl. recess: 56 mm

Recess Ø  $D_1$ : 19.5 mm

Overall length L: 104 mm

Shank Ø  $D_s$ : 20 mm

#### Technical description

Feed $f_z$ for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.07 mm
Direction of infeed	horizontal, oblique and vertical

Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	19.5 mm
Flute length $L_c$	38 mm
No. of teeth Z	4
Corner chamfer width at 45°	0.35 mm
Shank $\varnothing D_s$	20 mm
Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>	0.08 mm
Overhang length $L_1$ incl. recess	56 mm
Tolerance nominal $\varnothing$	h10
Overall length L	104 mm
Cutting edge $\varnothing D_c$	20 mm
Helix angle	40 degrees
Corner chamfer angle	45 degrees
Series	GARANT 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 1xD
Cutting width $a_e$ for milling operation	0.1xD
Through-coolant	yes
Machining strategy	TPC
Machining strategy	HPC
Colour ring	blue
Type of product	End mill

## Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank  $\varnothing$  tool 20 mm

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