

## Garant

### GARANT Master INOX M solid carbide milling cutter HPC / TPC, TiAlN, Ø e8 DC: 20 mm



#### Order data

Order number	202989 20
GTIN	4062406245122
Item class	11X

#### Description

##### Version:

Milling cutter with newly **developed high-performance coating** for **outstanding tool working life** and **optimum metal removal rates** in a wide range of stainless steels. Can be used at high **cutting speeds**, e.g. in duplex steels.

##### Note:

**Successor product to No. 203009.**

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 42 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 41 mm

Overhang length  $L_1$  incl. recess: 52 mm

Recess Ø  $D_1$ : 19.5 mm

Overall length L: 104 mm

Shank Ø  $D_s$ : 20 mm

#### Technical description

Direction of infeed	horizontal, oblique and vertical
Helix angle	42 degrees
Overall length L	104 mm
Recess Ø $D_1$	19.5 mm

Overhang length $L_1$ incl. recess	52 mm
Shank $\varnothing D_s$	20 mm
Tolerance nominal $\varnothing$	e8
No. of teeth Z	4
Feed $f_z$ for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.1 mm
Feed $f_z$ for side milling in INOX $> 900 \text{ N/mm}^2$	0.12 mm
Cutting edge $\varnothing D_c$	20 mm
Shank	DIN 6535 HB to h6
Flute length $L_c$	41 mm
Corner rounding $r_v$	0.2 mm
Series	GARANT 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	$0.03 \times D$ for copy milling
Cutting width $a_e$ for milling operation	$0.1 \times D$
Through-coolant	no
Machining strategy	HPC
Machining strategy	TPC
Colour ring	blue
Type of product	End mill

## Services

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

SZ2025 20

209900 FRST

Shank recess Type FRST

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