

## Garant

### GARANT Master INOX M solid carbide milling cutter HPC / TPC, TiAlN, Ø e8 DC: 12M mm



#### Order data

Order number	202989 12M
GTIN	4062406245078
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  $L_c$ : 36 mm

Overhang length  $L_1$  incl. recess: 46 mm

Recess Ø  $D_1$ : 11.6 mm

Overall length L: 93 mm

Shank Ø  $D_s$ : 12 mm

#### Technical description

Overhang length $L_1$ incl. recess	46 mm
Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>	0.08 mm
Feed $f_z$ for slot milling in stainless steel > 900 N/mm <sup>2</sup>	0.07 mm
Shank Ø $D_s$	12 mm

Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	11.6 mm
Direction of infeed	horizontal, oblique and vertical
Overall length L	93 mm
Helix angle	42 degrees
No. of teeth Z	4
Cutting edge $\varnothing D_c$	12 mm
Flute length $L_c$	36 mm
Tolerance nominal $\varnothing$	e8
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 recess Type FRST	20990 FRST
	SZ2025 12

Shank clamping flats for shrink-fit chucks, with retainer  
function Shank  $\varnothing$  tool 12 mm

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