

Garant
GARANT Master INOX solid carbide milling cutter HPC / TPC, TiAlN, Ø h10 DC: 12mm

Order data

Order number	203007 12
GTIN	4045197775764
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®.

Advantage:

Particularly low vibration running.

Tolerance nominal Ø: h10

No. of teeth Z: 4

Helix angle: 40 °

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length L_c : 26 mm

Overhang length L_1 incl. recess: 40 mm

Recess Ø D_1 : 11.5 mm

Overall length L: 83 mm

Shank Ø D_s : 12 mm

Technical description

Tolerance nominal Ø	h10
Shank	DIN 6535 HB to h6
Flute length L_c	26 mm

Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.04 mm
Overhang length L_1 incl. recess	40 mm
Overall length L	83 mm
Corner chamfer width at 45°	0.25 mm
No. of teeth Z	4
Recess $\varnothing D_1$	11.5 mm
Direction of infeed	horizontal, oblique and vertical
Shank $\varnothing D_s$	12 mm
Feed f_z for side milling in INOX $> 900 \text{ N/mm}^2$	0.05 mm
Cutting edge $\varnothing D_c$	12 mm
Helix angle	40°
Corner chamfer angle	45°
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	$0.1 \times D$
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	TPC
Machining strategy	HPC
Colour ring	blue
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
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Steel < 500 N/mm ²	suitable	250 m/min	P
Steel < 750 N/mm ²	suitable	230 m/min	P
Steel < 900 N/mm ²	suitable	200 m/min	P
Steel < 1100 N/mm ²	suitable	180 m/min	P
Steel < 1400 N/mm ²	suitable	115 m/min	P
Steel < 50 HRC	suitable	80 m/min	H
INOX < 900 N/mm ²	suitable	110 m/min	M
INOX > 900 N/mm ²	suitable	90 m/min	M
wet maximum	suitable		
wet minimum	suitable		
dry	Suitable only under restricted conditions		
Air	suitable		

Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 12 mm

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