

Garant

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



Order data

Order number	202999 12
GTIN	4062406233693
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

Feed f_z for side milling in INOX > 900 N/mm ²	0.05 mm
Overhang length L_1 incl. recess	40 mm
Direction of infeed	horizontal, oblique and vertical
Feed f_z for slot milling in stainless steel > 900 N/mm ²	0.04 mm
No. of teeth Z	4
Cutting edge Ø D_c	12 mm
Shank	DIN 6535 HB to h6
Overall length L	83 mm
Flute length L_c	26 mm

Helix angle	40 degrees
Recess $\varnothing D_1$	11.5 mm
Tolerance nominal \varnothing	h10
Shank $\varnothing D_s$	12 mm
Corner chamfer width at 45°	0.25 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 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		
Air	suitable		