

Garant

GARANT Master INOX solid carbide milling cutter HPC, TiAlN, Ø h10 DC: 16mm



Order data

Order number	202389 16
GTIN	4045197875358
Item class	11X

Description

Version:

For roughing and finishing

HPC milling cutters with **newly developed high-performance coating** for **outstanding service life** and **optimum metal removal rates** in a wide range of stainless steels.

Greater oxidation resistance and **high-temperature hardness**.

Can be used at **high cutting speeds**, particularly suitable even for TOOLOX®.

Technical description

Recess Ø D ₁	15.5 mm
Corner chamfer width at 45°	0.2 mm
Shank Ø D _s	16 mm
Cutting edge Ø D _c	16 mm
No. of teeth Z	3
Feed f _z for side milling in INOX > 900 N/mm ²	0.096 mm
Overhang length L ₁ incl. recess	58 mm
Overall length L	108 mm
Flute length L _c	48 mm
Shank	DIN 6535 HB to h6
Direction of infeed	horizontal, oblique and vertical

Tolerance nominal \varnothing	h10
Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.08 mm
Helix angle	40 degrees
Corner chamfer angle	45 degrees
Series	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	$0.3 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	blue
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel $< 500 \text{ N/mm}^2$	suitable	240 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	220 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	180 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	150 m/min	P
Steel $< 1400 \text{ N/mm}^2$	suitable only under restricted conditions	150 m/min	P
TOOLOX 33	suitable	115 m/min	H
TOOLOX 44	suitable	80 m/min	H
INOX $< 900 \text{ N/mm}^2$	suitable	100 m/min	M

INOX > 900 N/mm ²	suitable	85 m/min	M
Uni	suitable only under restricted conditions		
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		
Air	suitable		