

Garant
GARANT Master INOX solid carbide milling cutter HPC, TiAlN, Ø h10 DC: 1mm

Order data

Order number	202387 1
GTIN	4045197873590
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®.

Dimensions similar to **DIN 6527**.

Technical description

Shank Ø D _s	6 mm
Overall length L	57 mm
Flute length L _c	2.5 mm
Feed f _z for side milling in INOX > 900 N/mm ²	0.012 mm
Cutting edge Ø D _c	1 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
No. of teeth Z	3
Recess Ø D ₁	0.9 mm
Corner chamfer width at 45°	0.05 mm
Tolerance nominal Ø	h10

Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.01 mm
Overhang length L_1 incl. recess	5 mm
Helix angle	40 degrees
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	$0.5 \times D$ 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	250 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	230 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	200 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	170 m/min	P
Steel $< 1400 \text{ N/mm}^2$	suitable only under restricted conditions	170 m/min	P
TOOLOX 33	suitable	115 m/min	H
TOOLOX 44	suitable	80 m/min	H
INOX $< 900 \text{ N/mm}^2$	suitable	110 m/min	M

INOX > 900 N/mm ²	suitable	90 m/min	M
Uni	suitable only under restricted conditions		
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		
Air	suitable		