

Garant
GARANT Master INOX solid carbide milling cutter HPC, TiAlN, Ø h10 DC: 4,5mm

Order data

Order number	202387 4,5
GTIN	4045197875167
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

Overall length L	57 mm
Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.04 mm
Overhang length L_1 incl. recess	19 mm
Feed f_z for side milling in INOX $> 900 \text{ N/mm}^2$	0.048 mm
Direction of infeed	horizontal, oblique and vertical
No. of teeth Z	3
Shank $\varnothing D_s$	6 mm
Corner chamfer width at 45°	0.1 mm
Cutting edge $\varnothing D_c$	4.5 mm
Flute length L_c	13 mm

Recess $\varnothing D_1$	4.4 mm
Tolerance nominal \varnothing	h10
Shank	DIN 6535 HB to h6
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 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	170 m/min	P
Steel < 1400 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 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		