

GARANT Master INOX solid carbide milling cutter with chip separators TPC, TiAlN, \varnothing f8 DC: 4mm



Order data

Order number	2031164	
GTIN	4062406783440	
Item class	11Z	

Description

Version:

High-performance milling cutter with irregular cutter spacing and irregular helical pitch. High process reliability and better chip evacuation due to increased flutes. Optimised carbide substrate for higher bending strength and extreme tool life, even in stainless steels in the high-performance field, especially duplex. Chip separator positioned offset at cutting edges.

Advantage:

Lower pull-out forces due to reduced helix angle.

Note:

 h_{max} : The values stated in the table are maximum values. For finishing operations we recommend items No. 204012, 204014, 204015, 204016, 204018 and 204019.

 $a_{e max} = 0.12 \times D$ for TPC machining.

Technical description

Tolerance nominal Ø	e8	
Overall length L	57 mm	
Corner chamfer width at 45°	0.08 mm	
Helix angle	36 degrees	
Recess Ø D ₁	3.9 mm	
No. of teeth Z	6	

Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm ²	0.026 mm	
Corner chamfer angle	45 degrees	
Shank Ø D _s	6 mm	
Balance quality with shank	G 2.5 with HB	
Direction of infeed	horizontal, oblique and vertical	
Cutting edge \emptyset D_c	4 mm	
Shank	DIN 6535 HB to h6	
Flute length L _c	11 mm	
Series	Master INOX	
Coating	TiAlN	
Tool material	Solid carbide	
Standard	Manufacturer's standard	
Туре	N	
Helix angle characteristic	unequal spacing	
Spacing of the cutters	unequal spacing	
Cutting width a _e for milling operation	0.12×D	
Through-coolant	no	
Machining strategy	TPC	
Colour ring	blue	
Type of product	End / face mill	

User data

	Suitability	V _c	ISO code
Steel < 500 N/mm ²	Suitable only under restricted conditions	380 m/min	Р
Steel < 750 N/mm ²	Suitable only under restricted conditions	340 m/min	Р
Steel < 900 N/mm ²	Suitable only under restricted conditions	300 m/min	Р

Steel < 1100 N/mm ²	Suitable only under restricted conditions	230 m/min	Р
INOX < 900 N/mm ²	suitable	240 m/min	M
INOX > 900 N/mm ²	suitable	170 m/min	M
Ti > 850 N/mm ²	suitable	140 m/min	S
wet maximum	suitable		
wet minimum	Suitable only under restricted conditions		
Air	suitable		