

GARANT Master INOX solid carbide milling cutter with chip separators TPC, TiAIN, Ø f8 DC: 5mm



Order data

Order number	203118 5		
GTIN	4062406783716		
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.

 $a_{e max} = 0.07 \times D$ for TPC machining.

Successor product for No. 203104 and No. 203107.

Technical description

Shank	DIN 6535 HB to h6	
Corner chamfer width at 45°	0.1 mm	
Cutting edge \varnothing D_c	5 mm	
Tolerance nominal Ø	e8	
Shank Ø D _s	6 mm	
No. of teeth Z	6	

Overall length L	66 mm	
Flute length L _c	20 mm	
Balance quality with shank	G 2.5 with HB	
Average chip thickness $h_{\mbox{\scriptsize max}}$ for TPC milling in INOX < 900 $\mbox{N/mm}^2$	0.026 mm	
Corner chamfer angle	45 degrees	
Helix angle	36 degrees	
Direction of infeed	horizontal, oblique and vertical	
Number of chip separators	2	
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	0.07×D	
Through-coolant	no	
Machining strategy	TPC	
Colour ring	blue	
Type of product	End / face mill	

User data

	Suitability	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	Suitable only under restricted conditions	320 m/min	Р
Steel < 750 N/mm ²	Suitable only under restricted conditions	290 m/min	Р
Steel < 900 N/mm ²	Suitable only under restricted conditions	260 m/min	Р

Steel < 1100 N/mm ²	Suitable only under restricted conditions	200 m/min	Р
INOX < 900 N/mm ²	suitable	220 m/min	M
INOX > 900 N/mm ²	suitable	160 m/min	M
Ti > 850 N/mm ²	suitable	120 m/min	S
wet maximum	suitable		
wet minimum	Suitable only under restricted conditions		
Air	suitable		