

GARANT Master INOX solid carbide milling cutter with chip separators TPC, TiAIN, Ø f8 DC: 10mm



Order data

Order number	203119 10		
GTIN	4062406783792		
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.

 $a_{e max} = 0.04 \times D$ for TPC machining.

Successor product for No. 203105 and No. 203108.

Technical description

Flute length L _c	50 mm	
Shank Ø D _s	10 mm	
No. of teeth Z	6	
Corner chamfer angle	45 degrees	
Overall length L	96 mm	
Tolerance nominal Ø	e8	
Cutting edge \varnothing D_c	10 mm	

Balance quality with shank	G 2.5 with HB	
Average chip thickness h_{max} for TPC milling in INOX <900 N/mm^2	0.039 mm	
Helix angle	36 degrees	
Corner chamfer width at 45°	0.2 mm	
Direction of infeed	horizontal, oblique and vertical	
Shank	DIN 6535 HB to h6	
Number of chip separators	3	
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	0.04×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	270 m/min	Р
Steel < 750 N/mm ²	Suitable only under restricted conditions	240 m/min	Р
Steel < 900 N/mm ²	Suitable only under restricted conditions	210 m/min	Р

Steel < 1100 N/mm ²	Suitable only under restricted conditions	160 m/min	Р
INOX < 900 N/mm ²	suitable	200 m/min	M
INOX > 900 N/mm ²	suitable	140 m/min	M
Ti > 850 N/mm ²	suitable	100 m/min	S
wet maximum	suitable		
wet minimum	Suitable only under restricted conditions		
Air	suitable		