

GARANT Master INOX solid carbide milling cutter with chip separators TPC, TiAlN, 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.

Tolerance nominal Ø: e8

No. of teeth Z: 6 Helix angle: 36°

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 6 Flute length L_c : 50 mm Overall length L: 96 mm Shank \emptyset D_s: 10 mm

Number of chip separators: 3

Corner chamfer width at 45°: 0.2 mm

Technical description

Flute length L _c	50 mm		
Shank Ø D _s	10 mm		
No. of teeth Z	6		
Corner chamfer angle	45 °		
Overall length L	96 mm		
Tolerance nominal Ø	e8		
Cutting edge \emptyset D_c	10 mm		
Balance quality with shank	G 2.5 with HB		
Average chip thickness $h_{\mbox{\scriptsize max}}$ for TPC milling in INOX <900 $\mbox{N/mm}^2$	0.039 mm		
Helix angle	36 °		
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	TiAIN		
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	\mathbf{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
wet maximum	suitable		
wet minimum	Suitable only under restricted conditions		
Air	suitable		