

GARANT Master INOX solid carbide milling cutter with chip separators TPC, TiAlN, \varnothing f8 DC: 10mm



Order data

Order number	203117 10
GTIN	4062406783662
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.

 $a_{e max} = 0.1 \times D$ for TPC machining.

Technical description

Shank Ø D₅	10 mm
Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm ²	0.06 mm
Balance quality with shank	G 2.5 with HB
Corner chamfer angle	45 degrees
Overall length L	80 mm
Flute length L _c	30 mm

Recess Ø D ₁	9.8 mm		
Direction of infeed	horizontal, oblique and vertical		
Corner chamfer width at 45°	0.2 mm		
Overhang length L ₁ incl. recess	35 mm		
Cutting edge Ø D _c	10 mm		
Tolerance nominal Ø	e8		
Helix angle	36 degrees		
Shank	DIN 6535 HB to h6		
No. of teeth Z	6		
Number of chip separators	1		
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	0.1×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	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		