

# GARANT Master INOX solid carbide milling cutter with chip separators and internal cooling TPC, TiAIN, Ø f8 DC: 8mm



#### **Order data**

Order number	2031208
GTIN	4067263117100
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.

Internal cooling version for improved chip evacuation.

#### **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**

Flute length L <sub>c</sub>	24 mm		
Shank	DIN 6535 HB to h6		
Corner chamfer width at 45°	0.16 mm		
rner chamfer angle 45 degrees			
Cutting edge Ø D <sub>c</sub> 8 mm			
Balance quality with shank G 2.5 with HB			
Helix angle 36 degrees			

Direction of infeed	horizontal, oblique and vertical		
Shank Ø D <sub>s</sub>	8 mm		
No. of teeth Z	6		
Tolerance nominal Ø	f8		
Overhang length L <sub>1</sub> incl. recess	30 mm		
Overall length L	68 mm		
Number of chip separators	1		
Recess Ø D <sub>1</sub>	7.8 mm		
Average chip thickness $h_{\mbox{\scriptsize max}}$ for TPC milling in INOX $< 900$ $\mbox{N/mm}^2$	0.048 mm		
Series	Master INOX		
Coating	TiAlN		
Tool material	Solid carbide		
Standard	Works standard		
Туре	N		
elix angle characteristic unequal spacing			
Spacing of the cutters	unequal spacing		
utting width $a_e$ for milling operation 0.12×D			
Through-coolant	yes		
Machining strategy	TPC		
Colour ring	blue		
Type of product	End / face mill		

### **User data**

	Suitability	$\mathbf{V}_{c}$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	380 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	340 m/min	Р

## **⚠** Hoffmann Group

Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	300 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable only under restricted conditions	230 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	240 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	170 m/min	М
Ti > 850 N/mm <sup>2</sup>	suitable	140 m/min	S
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
Air	suitable		