## Garant

# GARANT Master INOX M SlotMachine solid carbide roughing end mill TPC, TiAIN, Ø d11 DC: 10mm



### Order data

Order number	205453 10	
GTIN	4062406380632	
Item class	11X	

## Description

#### Version:

**Problem-solver** for **TPC machining.** Ideal for automated production as the risk of chip accumulations in the machine is largely prevented.

With a **new type of knuckle form profile**, optimised for higher feed rates. Improved cutting edge protection thanks to slight edge honing. **Tremendous bending strength** due to the use of **ultra-fine grain substrate.** Number of cutters selected for performance and process reliability. **Advantage:** 

The tool geometry produces particularly tightly rolled swarf that is discharged via flat chip breaker recesses. As a result, the tool maintains an **extremely stable core.** 

#### **Recommendation:**

To ensure reliable working, particularly for full slot milling, use arbors with **4 cooling channel bores**.

#### Note:

 $h_{max}$ : The values stated in the table are maximum values.  $ae_{max} = 0.07 \times D$  for TPC machining.

## **Technical description**

Helix angle	40 degrees		
Direction of infeed	horizontal, oblique and vertical		
Cutting edge $Ø D_c$	10 mm		
No. of teeth Z	5		
Shank	DIN 6535 HB to h6		

30 mm		
d11		
9.3 mm		
0.051 mm		
80 mm		
0.2 mm		
10 mm		
38 mm		
45 degrees		
Master INOX		
TiAIN		
Solid carbide		
Manufacturer's standard		
NF		
0.07×D		
no		
TPC		
blue		
End / face mill		

# User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	140 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	130 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	110 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable only under restricted conditions	100 m/min	Р

# Data sheet

Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	90 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	75 m/min	М
Uni	suitable only under restricted conditions		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
Air	suitable only under restricted conditions		