

## **GARANT Master Tap INOX machine tap HSS-E-PM, TiAIN, MF: 12X1**



## **Order data**

Order number	137053 12X1
GTIN	4062406081744
Item class	111

## **Description**

#### **Version:**

### **GARANT Master Tap INOX:**

High-performance tap, specially developed for **good process reliability in stainless and acid-resistant steels** and **duplex materials.** 

**The 45° helix angle** of the flutes facilitates chip formation especially in ductile austenitic CrNi steels.

- · HSS-E-PM tool material for a high degree of wear resistance
- · The latest generation of TiALN multi-layer coating
- · Parameterised flute geometry for optimum chip formation and torsional rigidity

Thread type: MF

Tool material: HSS E PM Standard: DIN 374

Tolerance class: ISO 2X 6HX

Thread pitch: 1 mm Overall length L: 100 mm

Shank Ø D<sub>s</sub>: 9 mm Shank square □: 7 mm Tapping hole Ø: 11 mm

## **Technical description**

Number of clamping slots	4
Thread depth	30 mm
Thread pitch	1 mm
Overall length L	100 mm

Tolerance class	ISO 2X 6HX		
Tool material	HSS E PM		
Number of cutting edges Z	4		
Thread type	MF		
Thread Ø	12 mm		
Shank Ø D <sub>s</sub>	9 mm		
Standard	DIN 374		
Shank square □	7 mm		
Tapping hole Ø	11 mm		
Thread size	M12×1		
Coating	TiAlN		
Flank angle	60 °		
Thread standard	DIN 13		
Taper lead form	С		
Helix angle	45 °		
Shank	Plain shank with h9		
Through-coolant	no		
Application for type of drilling	up to 3×D for through holes		
Cutting direction	right-hand		
Type of threading tool	Machine tap for dynamic machining		
Colour ring	blue		
Series	Master Tap		
Type of product	Тар		

# **User data**

	Suitability	$\mathbf{V}_{c}$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	28 m/min	N

Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	23 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	23 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	12 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	11 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	9 m/min	М
Oil	suitable		
wet maximum	suitable		