# Garant

# GARANT Master Tap INOX machine tap HSS-E-PM, TiAIN, UNF: 4-48

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## Order data

Order number	138007 4-48
GTIN	4062406210151
Item class	111

### Description

#### Version:

#### GARANT Master Tap INOX:

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

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

· HSS-E-PM tool material for maximum wear resistance

· The latest generation of TiALN multi-layer coating

# · Parameterised flute geometry for optimum chip formation and torsional rigidity

# Application:

**For UNF uniform fine threads** ASME – B1.1.

Thread type: UNF Tool material: HSS E PM Standard: DIN 371 Threads per inch: 48 Thread  $\emptyset$ : 2.84 mm Overall length L: 56 mm Shank  $\emptyset$  D<sub>s</sub>: 3.5 mm Shank square  $\Box$ : 2.7 mm Tapping hole  $\emptyset$ : 2.4 mm

# **Technical description**

Thread depth	7.1 mm	
Number of clamping slots	3	
Thread Ø	2.84 mm	

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Threads per inch	48		
Thread pitch	0.529 mm		
Thread type	UNF		
Number of cutting edges Z	3		
Shank Ø D <sub>s</sub>	3.5 mm		
Tool material	HSS E PM		
Standard	DIN 371		
Tapping hole Ø	2.4 mm		
Overall length L	56 mm		
Thread size	4-48 UNF		
Shank square 🗆	2.7 mm		
Series	Master Tap		
Coating	TiAIN		
Flank angle	60 °		
Tolerance class	2BX		
Taper lead form	С		
Helix angle	45 °		
Shank	Plain shank with h9		
Through-coolant	no		
Application for type of drilling	up to 2.5×D for blind holes		
Cutting direction	right-hand		
Type of threading tool	Machine tap for dynamic machining		
Colour ring	blue		
Type of product	Тар		

# User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	28 m/min	Ν

Data sheet

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/mm²	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		