

**Garant**
**GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNC: 5/16-18**

**Order data**

Order number	133356 5/16-18
GTIN	4062406209568
Item class	111

**Description**
**Version:**

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

- **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 UNC uniform coarse threads ASME – B1.1.**

Thread type: UNC

Tool material: HSS E PM

Standard: DIN 371

Threads per inch: 18

Thread Ø: 7.94 mm

Overall length L: 90 mm

Shank Ø D<sub>s</sub>: 8 mm

Shank square □: 6.2 mm

Tapping hole Ø: 6.6 mm

**Technical description**

Tool material	HSS E PM
Thread type	UNC
Shank square □	6.2 mm
Thread depth	23.82 mm

Tapping hole Ø	6.6 mm
Standard	DIN 371
Thread Ø	7.94 mm
Thread pitch	1.411 mm
Overall length L	90 mm
Thread size	5/16-18 UNC
Number of cutting edges Z	3
Number of clamping slots	3
Threads per inch	18
Shank Ø D <sub>s</sub>	8 mm
Series	Master Tap
Coating	TiAlN
Flank angle	60 °
Tolerance class	2BX
Taper lead form	B
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
Type of product	Tap

## User data

	Suitability	V <sub>c</sub>	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	P

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