

**Garant**
**GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNF: 7/16-20**

**Order data**

Order number	133406 7/16-20
GTIN	4062406209735
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 UNF uniform fine threads ASME – B1.1.**

Thread type: UNF

Tool material: HSS E PM

Standard: DIN 374

Threads per inch: 20

Thread Ø: 11.11 mm

Overall length L: 100 mm

Shank Ø D<sub>s</sub>: 8 mm

Shank square □: 6.2 mm

Tapping hole Ø: 9.9 mm

**Technical description**

Thread size	7/16-20 UNF
Thread type	UNF
Number of clamping slots	3
Threads per inch	20

Tool material	HSS E PM
Number of cutting edges Z	3
Thread depth	33.33 mm
Shank square □	6.2 mm
Shank Ø D <sub>s</sub>	8 mm
Tapping hole Ø	9.9 mm
Overall length L	100 mm
Thread Ø	11.11 mm
Standard	DIN 374
Thread pitch	1.59 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		