

**Garant****GARANT Master Tap machine tap HSS-E-PM, ALTiX, UNF: 9/16-18****Order data**

Order number	138010 9/16-18
GTIN	4045197901798
Item class	111

**Description****Version:**

**GARANT Master Tap Universal tap, designed for** use in a wide spectrum of materials with high process reliability.

- **HSS-E-PM tool material for maximum wear resistance.**
- **Reduced coefficient of friction due to the new high-performance coating.**
- **Special geometry for optimum swarf evacuation.**

**Application:**

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

Thread type: UNF

Tool material: HSS E PM

Standard: DIN 374

Threads per inch: 18

Thread Ø: 14.29 mm

Overall length L: 100 mm

Shank Ø D<sub>s</sub>: 11 mm

Shank square □: 9 mm

Tapping hole Ø: 12.9 mm

**Technical description**

Thread type	UNF
Standard	DIN 374
Thread size	9/16-18 UNF
Number of clamping slots	3

Shank $\varnothing D_s$	11 mm
Thread pitch	1.411 mm
Overall length L	100 mm
Threads per inch	18
Shank square $\square$	9 mm
Thread $\varnothing$	14.29 mm
Tool material	HSS E PM
Number of cutting edges Z	3
Thread depth	35.72 mm
Tapping hole $\varnothing$	12.9 mm
Series	Master Tap
Coating	AlTiX
Flank angle	60°
Tolerance class	2BX
Taper lead form	C
Helix angle	40°
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	green
Type of product	Tap

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable	30 m/min	N
Aluminium (short chipping)	suitable	35 m/min	N

Alu > 10% Si	suitable	20 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	30 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	12 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	8 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	10 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	8 m/min	M
GG(G)	suitable	20 m/min	K
CuZn	suitable	20 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		