

**Garant****GARANT Master Tap machine tap HSS-E-PM, ALTiX, UNF: 5/8-18****Order data**

Order number	138010 5/8-18
GTIN	4045197901804
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: 15.88 mm

Overall length L: 100 mm

Shank Ø D<sub>s</sub>: 12 mm

Shank square □: 9 mm

Tapping hole Ø: 14.5 mm

**Technical description**

Overall length L	100 mm
Tool material	HSS E PM
Thread depth	39.7 mm
Thread size	5/8-18 UNF

Thread type	UNF
Threads per inch	18
Thread Ø	15.88 mm
Standard	DIN 374
Tapping hole Ø	14.5 mm
Number of clamping slots	3
Thread pitch	1.411 mm
Shank Ø D <sub>s</sub>	12 mm
Shank square □	9 mm
Number of cutting edges Z	3
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 <sub>c</sub>	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		