

**Garant**
**GARANT Master Tap machine tap HSS-E-PM, ALTiX, MF: 13X1**

**Order data**

Order number	137160 13X1
GTIN	4062406265687
Item class	111

**Description**
**Version:**

**GARANT Master Tap Universal taps**, 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.**

Thread type: MF

Tool material: HSS E PM

Standard: DIN 374

Tolerance class: ISO 2X 6HX

Thread pitch: 1 mm

Overall length L: 100 mm

Shank  $\varnothing D_s$ : 11 mm

Shank square  $\square$ : 9 mm

Tapping hole  $\varnothing$ : 12 mm

**Technical description**

Shank square $\square$	9 mm
Tapping hole $\varnothing$	12 mm
Number of clamping slots	3
Tool material	HSS E PM
Thread size	M13x1
Standard	DIN 374

Number of cutting edges Z	3
Thread Ø	13 mm
Overall length L	100 mm
Thread depth	32.5 mm
Shank Ø D <sub>s</sub>	11 mm
Thread pitch	1 mm
Tolerance class	ISO 2X 6HX
Thread type	MF
Coating	AlTiX
Flank angle	60°
Thread standard	DIN 13
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
Series	Master Tap
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		