

## Garant

### GARANT Master Tap machine tap for wire thread inserts HSS-E-PM, AlTiX, EG-M: EG-M12



#### Order data

Order number	138210 EG-M12
GTIN	4062406208936
Item class	111

#### Description

##### Version:

**Tap to DIN 40435 (similar to DIN 371 / DIN 376).**

**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.**

##### Application:

For production of AC mounting thread to metric ISO threads **DIN 8140** for **STI** (Screw Thread Insert) wire thread inserts.

##### Note:

Please ensure without fail the correct **tapping drill Ø (see table)**!

Tool material: HSS E PM

Standard: DIN 40435

Tolerance class: 6HX mod.

Thread pitch: 1.75 mm

Overall length L: 110 mm

Shank Ø D<sub>s</sub>: 11 mm

Shank square □: 9 mm

Tapping hole Ø: 12.5 mm

#### Technical description

Standard	DIN 40435
Tapping hole Ø	12.5 mm

Tolerance class	6HX mod.
Thread size	M12
Thread pitch	1.75 mm
Thread Ø	12 mm
Number of clamping slots	4
Overall length L	110 mm
Shank square □	9 mm
Number of cutting edges Z	4
Tool material	HSS E PM
Thread depth	30 mm
Shank Ø D <sub>s</sub>	11 mm
Coating	AlTiX
Thread type	EG-M
Flank angle	60°
Taper lead form	E
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		