

**Garant****GARANT Master Tap INOX machine tap HSS-E-PM Form B 6HX, TiAlN, M: M2,5****Order data**

Order number	132180 M2,5
GTIN	4062406080723
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**

Thread type: M

Tool material: HSS E PM

Standard: DIN 371

Tolerance class: ISO 2X 6HX

Thread pitch: 0.45 mm

Overall length L: 50 mm

Shank Ø D<sub>s</sub>: 2.8 mm

Shank square □: 2.1 mm

Tapping hole Ø: 2.05 mm

**Technical description**

Thread type	M
Overall length L	50 mm
Thread depth	7.5 mm
Thread pitch	0.45 mm
Number of cutting edges Z	3
Shank Ø D <sub>s</sub>	2.8 mm

Tool material	HSS E PM
Tapping hole Ø	2.05 mm
Thread Ø	2.5 mm
Number of clamping slots	3
Standard	DIN 371
Tolerance class	ISO 2X 6HX
Shank square □	2.1 mm
Thread size	M2.5
Coating	TiAlN
Flank angle	60 °
Thread standard	DIN 13
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
Series	Master Tap
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		