

Garant
GARANT Master Tap INOX machine tap HSS-E-PM Form E 6HX, TiAlN, M: M2

Order data

Order number	135736 M2
GTIN	4062406081201
Item class	111

Description
Version:

High-performance tap, specially developed for **good process reliability in stainless and acid-resistant steels** and **duplex materials**.

The 45° helix angle of the flutes facilitates chip formation especially in ductile austenitic CrNi steels.

- **HSS-E-PM tool material for a high degree of wear resistance**
- **The latest generation of TiAlN multi-layer coating**
- **Parameterised flute geometry for optimum chip formation and torsional rigidity**

Form E (lead chamfer: 1.5 - 2 turns).

Thread type: M

Tool material: HSS E PM

Standard: DIN 371

Tolerance class: ISO 2X 6HX

Thread pitch: 0.4 mm

Overall length L: 45 mm

Shank \varnothing D_s: 2.8 mm

Shank square \square : 2.1 mm

Tapping hole \varnothing : 1.6 mm

Technical description

Tapping hole \varnothing	1.6 mm
Thread depth	5 mm
Thread \varnothing	2 mm
Shank square \square	2.1 mm

Number of clamping slots	3
Tolerance class	ISO 2X 6HX
Shank $\varnothing D_s$	2.8 mm
Overall length L	45 mm
Number of cutting edges Z	3
Standard	DIN 371
Thread type	M
Thread pitch	0.4 mm
Tool material	HSS E PM
Thread size	M2
Coating	TiAlN
Flank angle	60°
Thread standard	DIN 13
Taper lead form	E
Helix angle	45°
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_c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	28 m/min	N

Steel < 750 N/mm ²	suitable only under restricted conditions	23 m/min	P
Steel < 900 N/mm ²	suitable only under restricted conditions	23 m/min	P
Steel < 1100 N/mm ²	suitable	12 m/min	P
INOX < 900 N/mm ²	suitable	11 m/min	M
INOX > 900 N/mm ²	suitable	9 m/min	M
Oil	suitable		
wet maximum	suitable		