Garant

GARANT Master Tap INOX machine tap HSS-E-PM Form E 6HX, TiAlN, M: M16

Order data

Order number	135736 M16
GTIN	4062406081645
Item class	11I

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 376
Tolerance class: ISO 2X 6HX
Thread pitch: 2 mm
Overall length L: 110 mm
Shank ∅ D_s: 12 mm
Shank square ☐: 9 mm
Tapping hole ∅: 14 mm

Technical description

Thread type	M
Tool material	HSS E PM
Shank ∅ D_s	12 mm
Tolerance class	ISO 2X 6HX

Tapping hole ⌀	14 mm
Standard	DIN 376
Overall length L	110 mm
Shank square ☐	9 mm
Thread pitch	2 mm
Thread ⌀	16 mm
Number of clamping slots	4
Number of cutting edges Z	4
Thread depth	40 mm
Thread size	M16
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/mm²	suitable only under restricted conditions	23 m/min	P
Steel < 900 N/mm²	suitable only under restricted conditions	23 m/min	P
Steel < 1100 N/mm²	suitable	12 m/min	P
INOX < 900 N/mm²	suitable	11 m/min	M
INOX > 900 N/mm²	suitable	9 m/min	M
Oil	suitable		
wet maximum	suitable		