

Garant
GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNF: 7/16-20

Order data

Order number	138007 7/16-20
GTIN	4062406210243
Item class	11I

Description
Version:
GARANT Master Tap INOX:

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

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

- **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**

Application:

For UNF uniform fine threads ASME – B1.1.

Thread type: UNF

Tool material: HSS E PM

Standard: DIN 374

Threads per inch: 20

Thread Ø: 11.11 mm

Overall length L: 100 mm

Shank Ø D_s: 8 mm

Shank square □: 6.2 mm

Tapping hole Ø: 9.9 mm

Technical description

Tool material	HSS E PM
Threads per inch	20

Tapping hole \varnothing	9.9 mm
Shank square \square	6.2 mm
Thread depth	27.78 mm
Number of cutting edges Z	3
Thread \varnothing	11.11 mm
Standard	DIN 374
Number of clamping slots	3
Thread type	UNF
Overall length L	100 mm
Thread size	7/16-20 UNF
Thread pitch	1.27 mm
Shank $\varnothing D_s$	8 mm
Series	Master Tap
Coating	TiAlN
Flank angle	60°
Tolerance class	2BX
Taper lead form	C
Helix angle	45°
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	blue
Type of product	Tap

User data

	Suitability	V_c	ISO code
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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		