

Garant
GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNF: 5/16-24

Order data

Order number	138007 5/16-24
GTIN	4062406210229
Item class	111

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 371

Threads per inch: 24

Thread Ø: 7.94 mm

Overall length L: 90 mm

Shank Ø D_s: 8 mm

Shank square □: 6.2 mm

Tapping hole Ø: 6.9 mm

Technical description

Thread pitch	1.058 mm
Thread Ø	7.94 mm
Thread type	UNF

Thread depth	19.85 mm
Number of clamping slots	3
Tapping hole Ø	6.9 mm
Standard	DIN 371
Shank square □	6.2 mm
Overall length L	90 mm
Number of cutting edges Z	3
Tool material	HSS E PM
Shank Ø D _s	8 mm
Threads per inch	24
Thread size	5/16-24 UNF
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
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		