

Garant**GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNC: 1/2-13****Order data**

Order number	133356 1/2-13
GTIN	4062406209599
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**

Application:

For UNC uniform coarse threads ASME – B1.1.

Thread type: UNC

Tool material: HSS E PM

Standard: DIN 376

Threads per inch: 13

Thread Ø: 12.7 mm

Overall length L: 110 mm

Shank Ø D_s: 9 mm

Shank square □: 7 mm

Tapping hole Ø: 10.8 mm

Technical description

Thread Ø	12.7 mm
Thread pitch	1.95 mm
Tool material	HSS E PM
Number of clamping slots	3

Thread depth	38.1 mm
Thread type	UNC
Number of cutting edges Z	3
Shank $\varnothing D_s$	9 mm
Standard	DIN 376
Overall length L	110 mm
Thread size	1/2-13 UNC
Shank square \square	7 mm
Threads per inch	13
Tapping hole \varnothing	10.8 mm
Series	Master Tap
Coating	TiAlN
Flank angle	60°
Tolerance class	2BX
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
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		