

Garant
GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNF: 12-28

Order data

Order number	133406 12-28
GTIN	4062406209698
Item class	11I

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 UNF uniform fine threads ASME – B1.1.

Thread type: UNF

Tool material: HSS E PM

Standard: DIN 371

Threads per inch: 28

Thread Ø: 5.49 mm

Overall length L: 80 mm

Shank Ø D_s: 6 mm

Shank square □: 4.9 mm

Tapping hole Ø: 4.7 mm

Technical description

Standard	DIN 371
Overall length L	80 mm
Thread pitch	0.907 mm
Tool material	HSS E PM
Number of cutting edges Z	3

Shank $\varnothing D_s$	6 mm
Thread type	UNF
Thread \varnothing	5.49 mm
Number of clamping slots	3
Threads per inch	28
Tapping hole \varnothing	4.7 mm
Thread depth	16.47 mm
Thread size	12-28 UNF
Shank square \square	4.9 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		