

**Garant**
**GARANT Master Tap machine tap HSS-E-PM, ALTiX, UNF: 1/2-20**

**Order data**

Order number	133410 1/2-20
GTIN	4045197901866
Item class	111

**Description**
**Version:**

**GARANT Master Tap general-purpose tap**, designed for use on a wide spectrum of materials with high process reliability.

- **HSS-E-PM tool material for maximum wear resistance.**
- **Reduced coefficient of friction due to the new high-performance coating.**
- **Special geometry for optimum swarf evacuation.**

**Application:**

**For UNF unified fine threads** ASME – B1.1.

Thread type: UNF

Tool material: HSS E PM

Standard: DIN 374

Threads per inch: 20

Thread Ø: 12.7 mm

Overall length L: 100 mm

Shank Ø D<sub>s</sub>: 9 mm

Shank square □: 7 mm

Tapping hole Ø: 11.5 mm

**Technical description**

Standard	DIN 374
Thread pitch	1.95 mm
Tool material	HSS E PM
Tapping hole Ø	11.5 mm

Number of cutting edges Z	3
Overall length L	100 mm
Thread depth	38.1 mm
Shank $\varnothing D_s$	9 mm
Number of clamping slots	3
Shank square $\square$	7 mm
Threads per inch	20
Thread size	1/2-20 UNF
Thread type	UNF
Thread $\varnothing$	12.7 mm
Series	GARANT Master Tap
Coating	AlTiX
Flank angle	60 degrees
Tolerance class	2BX
Taper lead form	B
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3xD for through holes
Cutting direction	right-hand
Type of threading tool	Machine tap for dynamic machining
Type of product	Tap