

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



Order data

Order number	138010 1/2-20
GTIN	4045197901781
Item class	111

Description

Version:

GARANT Master Tap Universal tap, designed for use in 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 uniform 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 D₅: 9 mm Shank square □: 7 mm Tapping hole Ø: 11.5 mm

Technical description

Number of cutting edges Z	3
Thread depth	31.75 mm
Standard	DIN 374
Number of clamping slots	3

Thread Ø	12.7 mm		
Overall length L	100 mm		
Shank square □	7 mm		
Tapping hole Ø	11.5 mm		
Threads per inch	20		
Thread size	1/2-20 UNF		
Thread type	UNF		
Shank Ø D _s	9 mm		
Tool material	HSS E PM		
Thread pitch	1.27 mm		
Series	Master Tap		
Coating	AlTiX		
Flank angle	60 °		
Tolerance class	2BX		
Taper lead form	С		
Helix angle	40 °		
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	green		
Type of product	Тар		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Alu plastics	suitable	30 m/min	N
Aluminium (short chipping)	suitable	35 m/min	N

Alu > 10% Si	suitable	20 m/min	N
Steel < 500 N/mm ²	suitable	30 m/min	Р
Steel < 750 N/mm ²	suitable	30 m/min	Р
Steel < 900 N/mm ²	suitable	25 m/min	Р
Steel < 1100 N/mm ²	suitable	12 m/min	Р
Steel < 1400 N/mm ²	suitable	8 m/min	Р
INOX < 900 N/mm ²	suitable	10 m/min	M
INOX > 900 N/mm ²	suitable	8 m/min	M
GG(G)	suitable	20 m/min	K
CuZn	suitable	20 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		