

**Garant****GARANT Master Tap machine tap extra long HSS-E-PM 6HX, AlTiX, MF: 20X1,5****Order data**

Order number	132907 20X1,5
GTIN	4062406208585
Item class	111

**Description****Version:**

**GARANT Master Tap Universal taps**, 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.**

With extra-long shank

**Advantage:**

Designed for tapping threads where access is difficult.

**Technical description**

Shank square <input type="checkbox"/>	12 mm
Number of clamping slots	4
Thread size	M20×1.5
Thread pitch	1.5 mm
Thread type	MF
Standard	Manufacturer's standard
Tolerance class	ISO 2X 6HX
Thread depth	60 mm
Tapping hole $\varnothing$	18.5 mm
Tool material	HSS E PM

Shank $\varnothing D_s$	16 mm
Overall length L	250 mm
Number of cutting edges Z	4
Thread $\varnothing$	20 mm
Coating	AlTiX
Flank angle	60 degrees
Thread standard	DIN 13
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	green
Series	Master Tap
Type of product	Tap

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable	24 m/min	N
Aluminium (short chipping)	suitable	28 m/min	N
Alu > 10% Si	suitable	16 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	24 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	24 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	20 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	10 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	6 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	8 m/min	M

INOX > 900 N/mm <sup>2</sup>	suitable	6 m/min	M
GG(G)	suitable	16 m/min	K
CuZn	suitable	16 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		