

Garant**GARANT Master Tap machine tap HSS-E-PM 6HX, AlTiX, MF: 20X2****Order data**

Order number	137160 20X2
GTIN	4067263108542
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.**

Technical description

Thread depth	50 mm
Shank square □	12 mm
Thread size	M20×2
Number of cutting edges Z	4
Overall length L	140 mm
Tolerance class	ISO 2X 6HX
Thread type	MF
Thread pitch	2 mm
Tapping hole Ø	18 mm
Standard	DIN 374
Thread Ø	20 mm
Tool material	HSS E PM

Data sheet

Shank $\varnothing D_s$	16 mm
Number of clamping slots	4
Coating	AlTiX
Flank angle	60 degrees
Thread standard	DIN 13
Taper lead form	C
Helix angle	40 degrees
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
Series	Master Tap
Type of product	Tap

User data

	Suitability	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	P
Steel < 750 N/mm ²	suitable	30 m/min	P
Steel < 900 N/mm ²	suitable	25 m/min	P
Steel < 1100 N/mm ²	suitable	12 m/min	P
Steel < 1400 N/mm ²	suitable	8 m/min	P
INOX < 900 N/mm ²	suitable	10 m/min	M
INOX > 900 N/mm ²	suitable	8 m/min	M

Data sheet

GG(G)	suitable	20 m/min	K
CuZn	suitable	20 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		