

Garant**GARANT Master Tap Alu machine tap, DLC, M: M20****Order data**

Order number	134260 M20
GTIN	4067263830443
Item class	11I

Description**Version:**

High-performance tap, specially developed for **aluminium and non-ferrous alloys**. **Dynamic helical pitch** of the clamping slots ensure **optimum chip evacuation** and **process reliability**.

- **HSS-E-PM tool material** – for **high cutting edge stability**.
- **Ultra-smooth DLC coating** for **wear resistance** and **avoidance of edge build-up**.
- **Dynamic helical pitch of the flutes**.
- **Short lead chamfer form E**.

Technical description

Standard	Works standard
Overall length L	155 mm
Number of clamping slots	4
Thread type	M
Number of cutting edges Z	4
Shank Ø D _s	16 mm
Thread pitch	2.5 mm
Shank square □	12 mm
Tapping hole Ø	17.5 mm
Tool material	HSS E PM
Thread depth	60 mm

Tolerance class	ISO 2X 6HX
Thread Ø	20 mm
Coating	DLC
Flank angle	60 degrees
Thread standard	DIN 13
Taper lead form	E
Helix angle	45 degrees
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3×D for blind holes
Cutting direction	right-hand
Type of threading tool	Machine tap for dynamic machining
Helix angle characteristic	unequal spacing
Colour ring	yellow
Series	Master Tap
Type of product	Tap

User data

	Suitability	V_c	ISO code
Aluminium	suitable	35 m/min	N
Aluminium (short chipping)	suitable		
Alu > 10% Si	suitable		
PMMA acrylic	suitable only under restricted conditions	20 m/min	N
PA 66	suitable only under restricted conditions	18 m/min	N
PEEK	suitable	18 m/min	N
Cu	suitable	18 m/min	N
CuZn	suitable		

Oil	suitable
wet maximum	suitable
wet minimum	suitable