

**Garant**
**GARANT Master Tap Alu machine tap, DLC, M: M1,6**

**Order data**

Order number	134260 M1,6
GTIN	4067263830320
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.**

**Note:**

Suitable up to thread depth 2.5×D.

**Technical description**

Number of cutting edges Z	2
Number of clamping slots	2
Thread type	M
Tool material	HSS E PM
Overall length L	40 mm
Shank square □	2.1 mm
Thread pitch	0.35 mm
Thread depth	4.8 mm
Thread Ø	1.6 mm
Standard	Works standard

Tolerance class	ISO 2X 6HX
Tapping hole Ø	1.25 mm
Shank Ø D <sub>s</sub>	2.5 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 <sub>c</sub>	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