

**Garant**
**GARANT Master Tap Alu machine tap extra long, DLC, M: M4**

**Order data**

Order number	131115 M4
GTIN	4067263830009
Item class	11I

**Description**
**Version:**

**High-performance tap**, specially developed for **aluminium and non-ferrous alloys**. **Extra-long clamping slots** and neck length for usable **thread depth up to 4xD**.

- **HSS-E-PM tool material for high cutting edge stability.**
- **Ultra-smooth DLC coating for wear resistance and avoidance of edge build-up.**
- **Extra-long flute geometry.**

With extra long shank.

**Technical description**

Thread depth	16 mm
Number of clamping slots	3
Overall length L	125 mm
Thread type	M
Standard	Works standard
Shank square □	3.4 mm
Number of cutting edges Z	3
Thread size	M4
Tapping hole Ø	3.3 mm
Thread Ø	4 mm
Tolerance class	ISO 2X 6HX
Shank Ø D <sub>s</sub>	4.5 mm

Tool material	HSS E PM
Thread pitch	0.7 mm
Coating	DLC
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 4×D for through holes
Cutting direction	right-hand
Type of threading tool	Machine tap for dynamic machining
Colour ring	yellow
Series	Master Tap
Type of product	Taps

## User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium	suitable	35 m/min	N
Aluminium (short chipping)	suitable	32 m/min	N
Alu > 10% Si	suitable	20 m/min	N
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	25 m/min	N
Oil	suitable		
wet maximum	suitable		

wet minimum

suitable