

Garant
GARANT Master Tap Alu machine tap, DLC, MF: 4X0,5

Order data

Order number	136230 4X0,5
GTIN	4067263829812
Item class	111

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

Shank square □	2.1 mm
Thread size	M4×0.5
Number of cutting edges Z	3
Thread depth	12 mm
Overall length L	63 mm
Shank Ø D _s	2.8 mm
Tolerance class	ISO 2X 6HX
Standard	Works standard
Tool material	HSS E PM
Tapping hole Ø	3.5 mm
Thread Ø	4 mm
Number of clamping slots	3

Thread pitch	0.5 mm
Thread type	M
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	Taps

User data

	Suitability	V _c	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