

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

**Order data**

Order number	132810 4X0,5
GTIN	4067263829768
Item class	111

**Description**
**Version:**

**High-performance tap**, specially developed for **aluminium and non-ferrous alloys**. **Extra long flutes** and neck length for usable **thread depths 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.**

**Technical description**

Standard	Works standard
Number of clamping slots	3
Thread depth	16 mm
Thread type	MF
Tolerance class	ISO 2X 6HX
Shank $\varnothing D_s$	2.8 mm
Tool material	HSS E PM
Number of cutting edges Z	3
Thread size	M4x0.5
Overall length L	63 mm
Tapping hole $\varnothing$	3.5 mm
Shank square $\square$	2.1 mm

Thread pitch	0.5 mm
Thread Ø	4 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	Tap

## 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