

**Garant****Machine tap for synchronised spindles HSS-E-PM, TiAlN, M: M5****Order data**

Order number	132280 M5
GTIN	4045197446114
Item class	11H

**Description****Version:**

**Sturdy design with spiral point and shank to DIN 1835-B.** Special geometry for use on machines with **synchronised spindle drives**. The tap is controlled by the synchronising spindle of the machine. Special **TiAlN-S coating** for optimum tool life. For use with **emulsion** (fat content minimum 8%).

**Note:**

**For use on synchronised spindles**, the **GARANT** quick-change tapping chuck **No. 338100 – 338121 with minimum length adjustment (MLA)** ensures maximum process reliability.

Thread type: M

Tool material: HSS E PM

Standard: Manufacturer's standard

Tolerance class: ISO 2X 6HX

Thread pitch: 0.8 mm

Overall length L: 70 mm

Shank Ø D<sub>s</sub>: 6 mm

Shank square □: 4.9 mm

Tapping hole Ø: 4.2 mm

**Technical description**

Number of clamping slots	3
Thread Ø	5 mm
Tapping hole Ø	4.2 mm
Number of cutting edges Z	3
Thread pitch	0.8 mm

Standard	Manufacturer's standard
Shank Ø D <sub>s</sub>	6 mm
Overall length L	70 mm
Shank square □	4.9 mm
Tolerance class	ISO 2X 6HX
Tool material	HSS E PM
Thread depth	12.5 mm
Thread type	M
Thread size	M5
Coating	TiAlN
Flank angle	60 °
Thread standard	DIN 13
Taper lead form	B
Shank	DIN 1835 B with h6
Through-coolant	no
Application for type of drilling	up to 2.5×D for through holes
Cutting direction	right-hand
Shank tolerance	h6
Type of threading tool	Machine tap for synchronous machining
Colour ring	blue
Type of product	Tap

## User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	40 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	37 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	35 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	22 m/min	P

INOX < 900 N/mm <sup>2</sup>	suitable	12 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	10 m/min	M
CuZn	suitable only under restricted conditions	35 m/min	N
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		