

**Garant**
**Machine tap for synchronised spindles HSS-E-PM Form C, TiAlN, M: M4**

**Order data**

Order number	135410 M4
GTIN	4045197446299
Item class	11H

**Description**
**Version:**

**Sturdy version with right-hand helix and shank to DIN 1835-B.** Special geometry for use on machines with **synchronised spindle drives**. The tap is guided by the synchronised spindle on the machine. Special **TiAlN-S coating** for optimum tool life. For use with **emulsion** (fat content minimum 8%).

**Recommendation:**

For **TOOLOX materials** we recommend **deviating from the DIN** data (see table) by drilling the tapping hole  $\varnothing$  **0.05 to 0.3mm** larger.

**Note:**

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

Thread type: M

Tool material: HSS E PM

Standard: Manufacturer's standard

Tolerance class: ISO 2X 6HX

Thread pitch: 0.7 mm

Overall length L: 70 mm

Shank  $\varnothing$  D<sub>s</sub>: 6 mm

Shank square □: 4.9 mm

Tapping hole  $\varnothing$ : 3.3 mm

**Technical description**

Number of clamping slots	3
Number of cutting edges Z	3
Thread pitch	0.7 mm

Thread Ø	4 mm
Tapping hole Ø	3.3 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	10 mm
Thread type	M
Thread size	M4
Coating	TiAlN
Flank angle	60 degrees
Thread standard	DIN 13
Taper lead form	C
Helix angle	40 degrees
Shank	DIN 1835 B to h6
Through-coolant	no
Application for type of drilling	up to 2.5×D for blind holes
Cutting direction	right-hand
Shank tolerance	h6
Type of threading tool	Machine tap for synchronous machining
Colour ring	red
Type of product	Tap