

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

**Order data**

Order number	136173 M4
GTIN	4045197508379
Item class	11H

**Description**
**Version:**
**Sturdy design with right-hand chip flutes and shank to DIN 1835-B.**

Special geometry for **universal applications** on machines with **synchronised spindle drive**. 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%).

**Form E** (lead chamfer: 1.5 - 2 turns) for the deepest possible thread depths.

**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  $\varnothing D_s$ : 6 mm

Shank square  $\square$ : 4.9 mm

Tapping hole  $\varnothing$ : 3.3 mm

**Technical description**

Number of clamping slots	3
Number of cutting edges Z	3
Tapping hole $\varnothing$	3.3 mm
Thread $\varnothing$	4 mm

Thread pitch	0.7 mm
Standard	Manufacturer's standard
Shank $\varnothing D_s$	6 mm
Overall length L	70 mm
Shank square $\square$	4.9 mm
Tolerance class	ISO 2X 6HX
Tool material	HSS E PM
Thread depth	12 mm
Thread type	M
Thread size	M4
Coating	TiAlN
Flank angle	60 degrees
Thread standard	DIN 13
Taper lead form	E
Helix angle	40 degrees
Shank	DIN 1835 B to h6
Through-coolant	no
Application for type of drilling	up to 3xD for blind holes
Cutting direction	right-hand
Shank tolerance	h6
Type of threading tool	Machine tap for synchronous machining
Colour ring	green
Type of product	Tap