

Garant
Machine tap for synchronised spindles HSS-E-PM Form E, TiAlN, M: M3

Order data

Order number	135415 M3
GTIN	4045197507884
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%).

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

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: 0.5 mm

Overall length L: 70 mm

Shank \varnothing D_s: 6 mm

Shank square □: 4.9 mm

Tapping hole \varnothing : 2.5 mm

Technical description

Thread pitch	0.5 mm
Tapping hole \varnothing	2.5 mm
Thread \varnothing	3 mm

Number of clamping slots	3
Number of cutting edges Z	3
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	7.5 mm
Thread type	M
Thread size	M3
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 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