

Machine tap for synchronised spindles HSS-E-PM Form E, TiAlN, M: M12



Order data

Order number	135415 M12
GTIN	4045197507945
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 **TiAIN-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: 1.75 mm Overall length L: 110 mm Shank Ø D₅: 12 mm Shank square □: 9 mm Tapping hole Ø: 10.2 mm

Technical description

Number of cutting edges Z	4
Thread pitch	1.75 mm
Thread Ø	12 mm

Tapping hole Ø	10.2 mm
Number of clamping slots	4
Standard	Manufacturer's standard
Shank Ø D _s	12 mm
Overall length L	110 mm
Shank square □	9 mm
Tolerance class	ISO 2X 6HX
Tool material	HSS E PM
Thread depth	30 mm
Thread type	M
Thread size	M12
Coating	TiAIN
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	Тар