

Synchronised fluteless machine tap with oil grooves HSS-E-PM Form E, TiN, M: M12



Order data

Order number	139215 M12		
GTIN	4045197509451		
Item class	11H		

Description

Version:

Special polygon geometry and shank to DIN 1835-B for machines with synchronised spindle drive. With oil grooves; optimal lubrication effect even in deeper threads.

The **innovative polygon form** permits a wide application spectrum. The **multi-function layered coating** achieves **maximum service life** even in **high-tensile materials** in **fixed** applications.

Form E (lead-in: 1.5 - 2 turns) for deep threads with short run-out.

Note:

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

Tolerance class: ISO 2X 6HX Thread pitch: 1.75 mm Overall length L: 110 mm Shank Ø D_s: 12 mm

Shank square □: 9 mm

Tapping hole Ø guide value: 11.2 mm

Technical description

Thread Ø	12 mm
Number of clamping slots	5
Number of cutting edges Z	5
Thread pitch	1.75 mm
Shank Ø D _s	12 mm

Shank square □	9 mm		
Overall length L	110 mm		
Tapping hole Ø guide value	11.2 mm		
Tolerance class	ISO 2X 6HX		
Thread depth	30 mm		
Thread size	M12		
Coating	TiN		
Thread type	M		
Flank angle	60 °		
Tool material	HSS E PM		
Standard	Manufacturer's standard		
Thread standard	DIN 13		
Taper lead form	E		
Shank	DIN 1835 B with h6		
Through-coolant	no		
Application for type of drilling	up to 2×D for blind holes		
Application for type of drilling	up to 2.5×D for through holes		
Cutting direction	right-hand		
Shank tolerance	h6		
Colour ring	green		
Type of product	Fluteless tap		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Alu plastics	suitable	45 m/min	N
Aluminium (short chipping)	suitable	45 m/min	N
Alu > 10% Si	suitable only under restricted conditions	40 m/min	N

Steel < 500 N/mm ²	suitable	45 m/min	Р
Steel < 750 N/mm ²	suitable	37 m/min	Р
Steel < 900 N/mm ²	suitable	35 m/min	Р
Steel < 1100 N/mm ²	suitable	32 m/min	Р
Steel < 1400 N/mm ²	suitable only under restricted conditions	22 m/min	Р
INOX < 900 N/mm ²	suitable	10 m/min	M
CuZn	suitable only under restricted conditions	35 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		