

Garant**Fluteless machine tap with oil grooves HSS-E-PM Form C 6HX, TiAlN, M: M12****Order data**

Order number	139171 M12
GTIN	4045197541864
Item class	11H

Description**Version:**

DIN 2174 (\approx DIN 371 \leq M10; \approx DIN 376 \geq M12). With oil grooves; optimum lubrication effect even in deeper threads.

Tolerance class: ISO 2X/6HX.

The **innovative polygon form** permits a wide application spectrum. The **multi-function layer structure** achieves **maximum service life** even in **high-tensile materials**.

Special **TiAlN coating**, highly suitable for **aluminium alloys**.

Tolerance class: ISO 2X 6HX

Thread pitch: 1.75 mm

Overall length L: 110 mm

Shank $\varnothing D_s$: 9 mm

Shank square \square : 7 mm

Tapping hole \varnothing guide value: 11.2 mm

Technical description

Thread \varnothing	12 mm
Number of clamping slots	5
Thread pitch	1.75 mm
Number of cutting edges Z	5
Shank $\varnothing D_s$	9 mm
Shank square \square	7 mm
Overall length L	110 mm

Tapping hole Ø guide value	11.2 mm
Tolerance class	ISO 2X 6HX
Thread depth	36 mm
Thread size	M12
Coating	TiAlN
Thread type	M
Flank angle	60 °
Tool material	HSS E PM
Standard	DIN 2174
Thread standard	DIN 13
Taper lead form	C
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3×D for blind holes
Application for type of drilling	up to 3×D for through holes
Cutting direction	right-hand
Colour ring	yellow
Type of product	Fluteless tap

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	42 m/min	N
Aluminium (short chipping)	suitable	42 m/min	N
Alu > 10% Si	suitable	28 m/min	N
Steel < 500 N/mm ²	suitable	32 m/min	P
Oil	suitable		
wet maximum	suitable		

