

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

Order data

Order number	139210 M12
GTIN	4045197446954
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.

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 $\varnothing D_s$: 12 mm

Shank square \square : 9 mm

Tapping hole \varnothing guide value: 11.2 mm

Technical description

Thread pitch	1.75 mm
Number of clamping slots	5
Thread \varnothing	12 mm
Number of cutting edges Z	5
Shank $\varnothing D_s$	12 mm
Shank square \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	C
Shank	DIN 1835 B with h6
Through-coolant	no
Application for type of drilling	up to 2xD for blind holes
Application for type of drilling	up to 2.5xD for through holes
Cutting direction	right-hand
Shank tolerance	h6
Colour ring	green
Type of product	Fluteless tap

User data

	Suitability	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	P

Steel < 750 N/mm ²	suitable	37 m/min	P
Steel < 900 N/mm ²	suitable	35 m/min	P
Steel < 1100 N/mm ²	suitable	32 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	22 m/min	P
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		