

Garant

Synchronised fluteless machine tap with oil grooves HSS-E-PM Form E, TiN, M: M4



Order data

Order number	139215 M4
GTIN	4045197509406
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: 0.7 mm

Overall length L: 70 mm

Shank Ø D_s: 6 mm

Shank square □: 4.9 mm

Tapping hole Ø guide value: 3.7 mm

Technical description

Thread pitch	0.7 mm
Number of clamping slots	4
Thread Ø	4 mm
Number of cutting edges Z	4
Shank Ø D _s	6 mm

Shank square <input type="checkbox"/>	4.9 mm
Overall length L	70 mm
Tapping hole Ø guide value	3.7 mm
Tolerance class	ISO 2X 6HX
Thread depth	10 mm
Thread size	M4
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	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		