

Fluteless machine tap with oil grooves HSS-E-PM Form E 6HX, TiAIN, M: M3



Order data

Order number	139198 M3
GTIN	4062406383374
Item class	111

Description

Version:

The latest generation of **high-performance fluteless taps**, specially developed for **use in steel materials**.

- · Optimised polygon geometry for a lower torque.
- · Multi-layer HIPIMS coating for high wear resistance.
- · HSS-E-PM substrate for exceptional process reliability.

DIN 2174 (\approx DIN 371 \leq M10; \approx **DIN 376** \geq M12).

Tolerance class: ISO 2X/6HX.

Form E (lead-in 1.5 - 2 turns) for deep threads with short run-out. The thread is tapped almost to the bottom of the hole.

Tolerance class: ISO 2X 6HX

Thread pitch: 0.5 mm Overall length L: 56 mm Shank Ø D_s: 3.5 mm Shank square □: 2.7 mm

Tapping hole Ø guide value: 2.8 mm

Technical description

Thread depth	9 mm	
Series	GARANT Master	
Tolerance class	ISO 2X 6HX	
Number of cutting edges Z	4	
Thread pitch	0.5 mm	

Number of clamping slots	4		
Thread size	M3		
Tapping hole Ø guide value	2.8 mm		
Thread Ø	2.5 mm		
Overall length L	56 mm		
Shank square □	2.7 mm		
Shank Ø D _s	3.5 mm		
Coating	TiAIN		
Thread type	M		
Flank angle	60 °		
Tool material	HSS E PM		
Standard	DIN 2174		
Thread standard	DIN 13		
Taper lead form	E		
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	without		
Type of product	Fluteless tap		

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable	38 m/min	N
Steel < 500 N/mm ²	suitable	37 m/min	Р
Steel < 750 N/mm ²	suitable	35 m/min	Р
Steel < 900 N/mm ²	suitable	27 m/min	Р

Steel < 1100 N/mm ²	suitable	18 m/min	Р
Steel < 1400 N/mm ²	suitable	12 m/min	Р
INOX < 900 N/mm ²	suitable	12 m/min	М
INOX > 900 N/mm ²	suitable	7 m/min	М
CuZn	suitable	22 m/min	N
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		