

Fluteless machine tap with oil grooves HSS-E-PM Form E 6HX, TiAIN, M: M3,5



Order data

Order number	139198 M3,5
GTIN	4062406383381
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: 0.6 mm
Overall length L: 56 mm

Shank Ø D_s: 4 mm

Shank square □: 3 mm

Tapping hole Ø guide value: 3.25 mm

Technical description

Thread depth	10.5 mm	
Number of cutting edges Z	4	
Shank Ø D _s	4 mm	
Series	GARANT Master	
Overall length L	56 mm	

Number of clamping slots	4	
Thread size	M3.5	
Shank square □	3 mm	
Tolerance class	ISO 2X 6HX	
Thread Ø	2.9 mm	
Thread pitch	0.6 mm	
Tapping hole Ø guide value	3.25 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	
pe 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		