

GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM Form C 6HX, TiAIN, M: M5



Order data

Order number	139194 M5
GTIN	4062406381172
Item class	111

Description

Version:

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

Tolerance class: ISO 2X/6HX.

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.

Technical description

Shank square □	4.9 mm		
Thread depth	15 mm		
Overall length L	70 mm		
Tolerance class	ISO 2X 6HX		
Shank Ø D _s	6 mm		
Number of cutting edges Z	5		
Thread size	M5		
Series	GARANT Master		
Tapping hole ∅ guide value	4.65 mm		
Thread Ø	5 mm		

Thread pitch	0.8 mm	
Number of clamping slots	5	
Coating	TiAIN	
Thread type	M	
Flank angle	60 degrees	
Tool material	HSS E PM	
Standard	DIN 2174	
Thread standard	DIN 13	
Taper lead form	С	
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	