Garant

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



Order data

Order number	139202 M5
GTIN	4062406373566
Item class	111

Description

Version:

DIN 2174 (\approx DIN 371 \leq M10; \approx DIN 376 \geq M12). With oil grooves; optimum lubrication effect even in deeper threads.

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.

With internal coolant feed laterally from the grooves. Permits the longest possible tool life when machining through holes and blind holes.

Technical description

Thread pitch	0.8 mm	
Tapping hole Ø guide value	4.65 mm	
Shank Ø D _s	6 mm	
Series	GARANT Master	
Thread Ø	5 mm	
Number of clamping slots	5	
Overall length L	70 mm	
Tolerance class	ISO 2X 6HX	

Data sheet

Thread depth	15 mm		
Number of cutting edges Z	5		
Shank square □	4.9 mm		
Thread size	M5		
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	yes		
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	42 m/min	N
Steel < 500 N/mm ²	suitable	40 m/min	Р
Steel < 750 N/mm ²	suitable	38 m/min	Р
Steel < 900 N/mm ²	suitable	29 m/min	Р
Steel < 1100 N/mm ²	suitable	20 m/min	Р
Steel < 1400 N/mm ²	suitable	15 m/min	Р
INOX < 900 N/mm ²	suitable	15 m/min	М

Data sheet

$INOX > 900 \text{ N/mm}^2$	suitable	8 m/min	М
CuZn	suitable	25 m/min	N
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		