Garant

GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM, TiAIN, UNF: 5/8-18



Order data

Order number	139495 5/8-18
GTIN	4062406707231
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 (≈ DIN 371 ≤ 3/8; **≈ DIN 376** ≥ 7/16).

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

Application:

For UNF unified fine threads ASME–B1.1.

Thread pitch: 1.411 mm Threads per inch: 18 Thread \emptyset : 15.88 mm Overall length L: 100 mm Shank \emptyset D_s: 12 mm Shank square \Box : 9 mm

Technical description

Thread pitch	1.411 mm
Tapping hole Ø guide value	15.2 mm
Thread depth	47.64 mm
Shank Ø D _s	12 mm

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Number of clamping slots	8		
Number of cutting edges Z	8		
Thread Ø	15.88 mm		
Overall length L	100 mm		
Shank square 🗆	9 mm		
Threads per inch	18		
Coating	TiAIN		
Thread type	UNF		
Flank angle	60 °		
Tool material	HSS E PM		
Standard	DIN 2174		
Tolerance class	2BX		
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		
Type of product	Fluteless tap		

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable	38 m/min	Ν
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

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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	Ν
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		