Garant

GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM, TiAIN, UNC: 1/2-13



Order data

Order number	139485 1/2-13
GTIN	4062406707101
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 UNC unified coarse threads ASME–B1.1.

Thread pitch: 1.954 mm Threads per inch: 13 Thread \emptyset : 12.7 mm Overall length L: 110 mm Shank \emptyset D_s: 9 mm Shank square \Box : 7 mm

Technical description

Number of cutting edges Z	8
Shank square 🗆	7 mm
Thread pitch	1.954 mm
Overall length L	110 mm

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Data sheet

Thread Ø	12.7 mm	
Tapping hole Ø guide value	11.8 mm	
Shank Ø D _s	9 mm	
Number of clamping slots	8	
Thread depth	36.21 mm	
Threads per inch	13	
Coating	TiAIN	
Thread type	UNC	
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		