

GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM, TiAIN, UNF: 12-28



Order data

Order number	139495 12-28
GTIN	4062406707170
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 3/8; \approx **DIN 376** \geq 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: 0.907 mm Threads per inch: 28 Thread Ø: 5.49 mm Overall length L: 80 mm Shank Ø D_s: 6 mm

Shank square □: 4.9 mm

Technical description

Thread pitch	0.907 mm
Overall length L	80 mm
Thread depth	16.47 mm
Number of cutting edges Z	5

Shank square □	4.9 mm		
Shank Ø D _s	6 mm		
Thread Ø	5.49 mm		
Number of clamping slots	5		
Tapping hole Ø guide value	5.1 mm		
Threads per inch	28		
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	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		