

GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM, TiAIN, UNF: 5-44



Order data

Order number	139495 5-44
GTIN	4062406707149
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: 0.577 mm Threads per inch: 44 Thread \varnothing : 3.17 mm Overall length L: 56 mm Shank \varnothing D_s: 3.5 mm Shank square \square : 2.7 mm

Technical description

Shank Ø D _s	3.5 mm
Thread depth	9.51 mm
Number of clamping slots	4
Thread pitch	0.577 mm

Tapping hole ∅ guide value	2.9 mm		
Overall length L	56 mm		
Number of cutting edges Z	4		
Thread Ø	3.17 mm		
Shank square □	2.7 mm		
Threads per inch	44		
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	\mathbf{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		