

Garant
GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM Form C 6GX, TiAlN, M: M3

Order data

Order number	139205 M3
GTIN	4062406383534
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 ≤ M10; ≈ DIN 376 ≥ M12).

Tolerance class: ISO 3X/6GX.

Application:

For components which are **galvanised**, or shrink slightly when hardened.

Tolerance class: ISO 3X 6GX

Thread pitch: 0.5 mm

Overall length L: 56 mm

Shank Ø D_s: 3.5 mm

Shank square □: 2.7 mm

Tapping hole Ø guide value: 2.8 mm

Technical description

Shank square □	2.7 mm
Thread depth	9 mm
Number of cutting edges Z	4
Thread size	M3
Thread Ø	2.5 mm

Shank $\varnothing D_s$	3.5 mm
Tapping hole \varnothing guide value	2.8 mm
Tolerance class	ISO 3X 6GX
Overall length L	56 mm
Thread pitch	0.5 mm
Number of clamping slots	4
Series	GARANT Master
Coating	TiAlN
Thread type	M
Flank angle	60°
Tool material	HSS E PM
Standard	DIN 2174
Thread standard	DIN 13
Taper lead form	C
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
Colour ring	without
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	P
Steel < 750 N/mm ²	suitable	35 m/min	P
Steel < 900 N/mm ²	suitable	27 m/min	P

Steel < 1100 N/mm ²	suitable	18 m/min	P
Steel < 1400 N/mm ²	suitable	12 m/min	P
INOX < 900 N/mm ²	suitable	12 m/min	M
INOX > 900 N/mm ²	suitable	7 m/min	M
CuZn	suitable	22 m/min	N
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		