

## Garant

### GARANT Master Form Steel fluteless machine tap with oil grooves HSS-E-PM, TiAlN, MF: 5X0,5



#### Order data

Order number	139280 5X0,5
GTIN	4062406383831
Item class	111

#### Description

##### Version:

##### GARANT Master Form Steel:

The latest generation of **high-performance fluteless taps** are specially developed for **use in steels**.

- **Optimised polygon geometry for a reduced torque.**
- **Multi-layer HIPIMS coating for high wear resistance.**
- **HSS-E-PM substrate for top process reliability.**

<strong>DIN 2174</strong> (≈ <strong>DIN 371</strong> ≤ M10; <strong>DIN 376</strong> ≥ M12).

Tolerance class: ISO 2X 6HX

Thread pitch: 0.5 mm

Overall length L: 70 mm

Shank Ø D<sub>s</sub>: 6 mm

Shank square □: 4.9 mm

Tapping hole Ø guide value: 4.8 mm

#### Technical description

Overall length L	70 mm
Tapping hole Ø guide value	4.8 mm
Number of clamping slots	5
Series	GARANT Master
Tolerance class	ISO 2X 6HX

Thread depth	15 mm
Shank $\varnothing D_s$	6 mm
Thread size	M5×0.5
Shank square $\square$	4.9 mm
Thread $\varnothing$	5 mm
Number of cutting edges Z	5
Thread pitch	0.5 mm
Coating	TiAlN
Thread type	MF
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 only under restricted conditions	38 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	37 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	35 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	27 m/min	P

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