

# GARANT Master Form Steel fluteless machine tap with oil grooves Left-hand thread HSS-E-PM Form C 6HX, TiAIN, M-LH: M4



### **Order data**

Order number	139255 M4		
GTIN	4062406383763		
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**  $\leq$  M10;  $\approx$  **DIN 376**  $\geq$  M12).

Tolerance class: ISO 2X 6HX Thread pitch: 0.7 mm Overall length L: 63 mm

Shank Ø D₅: 4.5 mm Shank square □: 3.4 mm

Tapping hole Ø guide value: 3.7 mm

# **Technical description**

Tapping hole Ø guide value	3.7 mm		
Overall length L	63 mm		
Thread Ø	4 mm		
Tolerance class	ISO 2X 6HX		
Number of cutting edges Z	5		
Series	GARANT Master		
Shank Ø D <sub>s</sub>	4.5 mm		

12 mm		
M4 LH		
0.7 mm		
5		
3.4 mm		
TiAIN		
M-LH		
60 °		
HSS E PM		
DIN 2174		
DIN 13		
С		
Plain shank with h9		
no		
up to 3×D for blind holes		
up to 3×D for through holes		
right-hand		
without		
Fluteless tap		

# **User data**

	Suitability	$\mathbf{V}_{c}$	ISO code
Aluminium (short chipping)	suitable	38 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	37 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	35 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	27 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	18 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	12 m/min	Р

INOX < 900 N/mm <sup>2</sup>	suitable	12 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	7 m/min	М
CuZn	suitable only under restricted conditions	22 m/min	N
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		