

**Garant**
**GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, MF: 5X0,5**

**Order data**

Order number	137053 5X0,5
GTIN	4062406081676
Item class	111

**Description**
**Version:**
**GARANT Master Tap INOX:**

High-performance tap, specially developed for **good process reliability in stainless and acid-resistant steels** and **duplex materials**.

**The 45° helix angle** of the flutes facilitates chip formation especially in ductile austenitic CrNi steels.

- **HSS-E-PM tool material for a high degree of wear resistance**
- **The latest generation of TiAlN multi-layer coating**
- **Parameterised flute geometry for optimum chip formation and torsional rigidity**

Thread type: MF

Tool material: HSS E PM

Standard: DIN 374

Tolerance class: ISO 2X 6HX

Thread pitch: 0.5 mm

Overall length L: 70 mm

Shank  $\varnothing D_s$ : 3.5 mm

Shank square  $\square$ : 2.7 mm

Tapping hole  $\varnothing$ : 4.5 mm

**Technical description**

Thread $\varnothing$	5 mm
Overall length L	70 mm
Number of clamping slots	3
Tapping hole $\varnothing$	4.5 mm

Thread pitch	0.5 mm
Thread type	MF
Tolerance class	ISO 2X 6HX
Standard	DIN 374
Thread depth	12.5 mm
Number of cutting edges Z	3
Tool material	HSS E PM
Shank $\varnothing D_s$	3.5 mm
Shank square $\square$	2.7 mm
Thread size	M5x0.5
Coating	TiAlN
Flank angle	60°
Thread standard	DIN 13
Taper lead form	C
Helix angle	45°
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3xD for through holes
Cutting direction	right-hand
Type of threading tool	Machine tap for dynamic machining
Colour ring	blue
Series	Master Tap
Type of product	Tap

## User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	28 m/min	N

Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	23 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	23 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	12 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	11 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	9 m/min	M
Oil	suitable		
wet maximum	suitable		