

## Garant

### GARANT Master Tap INOX machine tap extra long HSS-E-PM Form C 6HX, TiAlN, M: M20



#### Order data

Order number	135739 M20
GTIN	4062406209988
Item class	11I

#### Description

##### Version:

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**

**With extra long shank.** Shank to DIN 376.

##### Advantage:

Designed for tapping threads where access is difficult.

#### Technical description

Number of cutting edges Z	4
Shank square □	12 mm
Shank Ø D <sub>s</sub>	16 mm
Tapping hole Ø	17.5 mm
Overall length L	280 mm
Thread size	M20
Tool material	HSS E PM
Thread Ø	20 mm

Thread pitch	2.5 mm
Standard	Manufacturer's standard
Tolerance class	ISO 2X 6HX
Thread depth	50 mm
Thread type	M
Number of clamping slots	4
Coating	TiAlN
Flank angle	60 degrees
Thread standard	DIN 13
Taper lead form	C
Helix angle	45 degrees
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 2.5×D for blind 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 <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	20 m/min	N
Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	16 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	16 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	8 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	7 m/min	M

INOX > 900 N/mm <sup>2</sup>	suitable	6 m/min	M
Oil	suitable		
wet maximum	suitable		