

**Garant**
**GARANT Master Tap INOX machine tap HSS-E-PM, TiAlN, UNF: 1/2-20**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 133406 1/2-20 |
| GTIN         | 4062406209742 |
| Item class   | 111           |

**Description**
**Version:**

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

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

**Application:**

**For UNF uniform fine threads ASME – B1.1.**

Thread type: UNF

Tool material: HSS E PM

Standard: DIN 374

Threads per inch: 20

Thread Ø: 12.7 mm

Overall length L: 100 mm

Shank Ø D<sub>s</sub>: 9 mm

Shank square □: 7 mm

Tapping hole Ø: 11.5 mm

**Technical description**

|                           |            |
|---------------------------|------------|
| Thread size               | 1/2-20 UNF |
| Overall length L          | 100 mm     |
| Number of cutting edges Z | 4          |
| Thread type               | UNF        |

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Tapping hole Ø                   | 11.5 mm                           |
| Standard                         | DIN 374                           |
| Thread depth                     | 38.1 mm                           |
| Tool material                    | HSS E PM                          |
| Thread Ø                         | 12.7 mm                           |
| Shank Ø D <sub>s</sub>           | 9 mm                              |
| Number of clamping slots         | 4                                 |
| Shank square □                   | 7 mm                              |
| Threads per inch                 | 20                                |
| Thread pitch                     | 1.95 mm                           |
| Series                           | GARANT Master Tap                 |
| Coating                          | TiAlN                             |
| Flank angle                      | 60 degrees                        |
| Tolerance class                  | 2BX                               |
| Taper lead form                  | B                                 |
| Shank                            | Plain shank with h9               |
| Through-coolant                  | no                                |
| Application for type of drilling | up to 3×D for through holes       |
| Cutting direction                | right-hand                        |
| Type of threading tool           | Machine tap for dynamic machining |
| Colour ring                      | blue                              |
| Type of product                  | Tap                               |