

**Garant**
**Machine tap, TiAlN, NPT: 1/16-27**

**Order data**

Order number	138110 1/16-27
GTIN	4045197585578
Item class	11H

**Description**
**Version:**

A **special TiAlN coating** for long tool life. Due to **interrupted** guide thread: **reduced tapping torque** and **improved distribution of lubricant**. For use with **emulsion** (fat content minimum 8%).

**Application:**

**Tapered** pipe threads (NPT) to **ANSI B1.20.1**, for threads with sealants. See the table for the specified minimum size of the tapping hole.

**Recommendation:**
**Tapping hole Ø A:**

Pre-drill a plain hole **without using a reamer**.

**Tapping hole Ø B:**

Pre-drill a plain hole and then **ream it using a 1:16 taper reamer (see No. 162650)**. The taper bore Ø can then be checked laterally by reference to the  $D_{max}$  check dimension (see table). **Variant B** for drilling the tapping hole offers the best process reliability for the tapping operation.

Threads per inch: 27

Overall length L: 90 mm

Shank Ø  $D_s$ : 6 mm

Shank square □: 4.9 mm

Tapping hole Ø A: 6.15 mm

Tapping hole Ø B: 5.95 mm

**Technical description**

Tapping hole minimum depth	12 mm
Thread gauge Ø $D_{max} + 0.05$	6.39 mm

Thread Ø	7.895 mm
Thread pitch	0.941 mm
Threads per inch	27
Tapping hole Ø A	6.15 mm
Number of clamping slots	3
Number of cutting edges Z	3
Tapping hole Ø B	5.95 mm
Shank Ø D <sub>s</sub>	6 mm
Overall length L	90 mm
Shank square □	4.9 mm
Thread depth	15.8 mm
Thread size	1/16-27 NPT
Coating	TiAlN
Thread type	NPT
Flank angle	60 degrees
Tool material	HSS E
Standard	DIN 374
Thread standard	ANSI B 1.20.1
Taper lead form	C
Taper ratio	1:16
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	for blind holes and through holes
Cutting direction	right-hand
Type of threading tool	Machine tap for dynamic machining
Colour ring	blue
Type of product	Tap

