

**Garant**
**Machine tap, TiAlN, NPT: 3/4-14**

**Order data**

Order number	138110 3/4-14
GTIN	4045197533708
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: 14

Overall length L: 150 mm

Shank Ø  $D_s$ : 20 mm

Shank square □: 16 mm

Tapping hole Ø A: 23.3 mm

Tapping hole Ø B: 22.7 mm

**Technical description**

Threads per inch	14
Thread gauge Ø $D_{max} + 0.05$	23.67 mm

Tapping hole Ø A	23.3 mm
Tapping hole Ø B	22.7 mm
Number of clamping slots	5
Thread pitch	1.814 mm
Number of cutting edges Z	5
Thread Ø	26.568 mm
Tapping hole minimum depth	23 mm
Shank Ø D <sub>s</sub>	20 mm
Overall length L	150 mm
Shank square □	16 mm
Thread depth	46.4 mm
Thread size	3/4-14 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

