

Garant
Machine tap, TiAlN, NPT: 1/4-18

Order data

Order number	138110 1/4-18
GTIN	4045197533661
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: 18

Overall length L: 100 mm

Shank Ø D_s : 11 mm

Shank square □: 9 mm

Tapping hole Ø A: 11.1 mm

Tapping hole Ø B: 10.75 mm

Technical description

Number of cutting edges Z	5
Threads per inch	18

Tapping hole \varnothing B	10.75 mm
Tapping hole minimum depth	17.5 mm
Thread gauge $\varnothing D_{\max} + 0.05$	11.36 mm
Tapping hole \varnothing A	11.1 mm
Thread pitch	1.411 mm
Number of clamping slots	5
Thread \varnothing	13.616 mm
Shank $\varnothing D_s$	11 mm
Overall length L	100 mm
Shank square \square	9 mm
Thread depth	22 mm
Thread size	1/4-18 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

