

Garant
Machine tap, TiAlN, NPT: 1/2-14

Order data

Order number	138110 1/2-14
GTIN	4045197533685
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: 140 mm

Shank Ø D_s : 16 mm

Shank square □: 12 mm

Tapping hole Ø A: 17.85 mm

Tapping hole Ø B: 17.5 mm

Technical description

Tapping hole Ø A	17.85 mm
Thread pitch	1.814 mm

Tapping hole \varnothing B	17.5 mm
Thread gauge \varnothing D _{max} + 0.05	18.32 mm
Number of clamping slots	5
Tapping hole minimum depth	22.9 mm
Number of cutting edges Z	5
Thread \varnothing	21.223 mm
Threads per inch	14
Shank \varnothing D _s	16 mm
Overall length L	140 mm
Shank square \square	12 mm
Thread depth	35.06 mm
Thread size	1/2-14 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

