

Garant
Machine tap, TiAlN, NPT: 1/8-27

Order data

Order number	138110 1/8-27
GTIN	4045197533647
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). **Variante B** for drilling the tapping hole offers the best process reliability for the tapping operation.

Threads per inch: 27

Overall length L: 100 mm

Shank Ø D_s : 7 mm

Shank square □: 5.5 mm

Tapping hole Ø A: 8.5 mm

Tapping hole Ø B: 8.25 mm

Technical description

Tapping hole minimum depth	12 mm
Threads per inch	27

Number of cutting edges Z	5
Number of clamping slots	5
Tapping hole $\varnothing B$	8.25 mm
Thread pitch	0.941 mm
Tapping hole $\varnothing A$	8.5 mm
Thread \varnothing	10.242 mm
Thread gauge $\varnothing D_{\max} + 0.05$	8.74 mm
Shank $\varnothing D_s$	7 mm
Overall length L	100 mm
Shank square \square	5.5 mm
Thread depth	17 mm
Thread size	1/8-27 NPT
Coating	TiAlN
Thread type	NPT
Flank angle	60°
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

