

# Machine tap HSS-E-PM, TiAIN, NPT: 3/8-18



# **Order data**

Order number	138100 3/8-18
GTIN	4045197080431
Item class	11H

# Description

#### Version:

For the highest performance demands. 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:**

For **TOOLOX** and **HARDOX** materials we recommend deviating from the DIN data (see table) by drilling the tapping hole Ø **0.05** to **0.3** mm larger.

#### 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  $\varnothing$  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 D₃: 12 mm Shank square □: 9 mm Tapping hole Ø A: 9/16 inch Tapping hole Ø B: 14.1 mm

# **Technical description**

Thread Ø	17.055 mm
Tapping hole ∅ B	14.1 mm

Number of clamping slots	4
Threads per inch	18
Thread gauge Ø D <sub>max</sub> + 0.05	14.8 mm
Number of cutting edges Z	4
Tapping hole minimum depth	17.6 mm
Thread pitch	1.411 mm
Shank Ø D <sub>s</sub>	12 mm
Overall length L	100 mm
Shank square □	9 mm
Thread depth	32.7 mm
Tapping hole Ø A	9/16 inch
Thread size	3/8-18 NPT
Coating	TiAIN
Thread type	NPT
Flank angle	60 degrees
Tool material	HSS E PM
Standard	Manufacturer's standard
Thread standard	ANSI B 1.20.1
Taper lead form	С
Taper ratio	1:16
Helix angle	15 degrees
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	red
Type of product	Тар

