

Machine tap HSS-E-PM, TiAIN, NPT: 1/4-18



Order data

Order number	138100 1/4-18		
GTIN	4045197080424		
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: 11 mm Shank square □: 9 mm Tapping hole Ø A: 11.1 mm Tapping hole Ø B: 10.75 mm

Technical description

Thread Ø	13.616 mm
Tapping hole ∅ B	10.75 mm

Threads per inch	18		
Tapping hole Ø A	11.1 mm		
Tapping hole minimum depth	17.5 mm		
Number of clamping slots	4		
Number of cutting edges Z	4		
Thread pitch	1.411 mm		
Thread gauge \varnothing D _{max} + 0.05	11.36 mm		
Shank Ø D _s	11 mm		
Overall length L	100 mm		
Shank square □	9 mm		
Thread depth	25.84 mm		
Thread size	1/4-18 NPT		
Coating	TiAlN		
Thread type	NPT		
Flank angle	60 °		
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°		
Shank	Plain shank with h9		
Through-coolant	no		
Application for type of drilling	Blind hole		
Application for type of drilling	Through hole		
Cutting direction	right-hand		
Type of threading tool	Machine tap for dynamic machining		
Colour ring	red		
Type of product	Тар		

User data

	Suitability	V _c	ISO code
Steel < 900 N/mm ²	suitable	23 m/min	Р
Steel < 1100 N/mm ²	suitable	13 m/min	Р
Steel < 1400 N/mm ²	suitable only under restricted conditions	7 m/min	Р
TOOLOX 33	suitable	4 m/min	Н
TOOLOX 44	suitable	3 m/min	Н
HARDOX 500 < 1600 N/ mm ²	suitable	2 m/min	Н
Oil	suitable		
wet maximum	suitable		