

## Machine tap HSS-E-PM, TiAIN, NPT: 3/4-14



### **Order data**

Order number	138100 3/4-14		
GTIN	4045197080455		
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: 14 Overall length L: 140 mm Shank Ø D₅: 20 mm Shank square □: 16 mm Tapping hole Ø A: 23.3 mm Tapping hole Ø B: 22.7 mm

## **Technical description**

Thread Ø	26.568 mm	
Tapping hole ∅ B	22.7 mm	

Threads per inch	14		
Number of clamping slots	5		
Number of cutting edges Z	5		
Thread pitch	1.814 mm		
Thread gauge $\varnothing$ D <sub>max</sub> + 0.05	23.67 mm		
Tapping hole minimum depth	23 mm		
Tapping hole ∅ A	23.3 mm		
Shank Ø D <sub>s</sub>	20 mm		
Overall length L	140 mm		
Shank square □	16 mm		
Thread depth	51.286 mm		
Thread size	3/4-14 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	<b>V</b> <sub>c</sub>	ISO code
Steel < 900 N/mm <sup>2</sup>	suitable	23 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	13 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	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 <sup>2</sup>	suitable	2 m/min	Н
Oil	suitable		
wet maximum	suitable		