## All technical data refer to the measure mm

## HELICOIL® machine taps spiral fluted 45° | For blind holes

Type 0141.4 HELICOIL® machine tap to create holding threads for HELICOIL® thread inserts with UNF threads as per NASM33527. The tap is suited for blind holes.

#### **Properties:**

- Spiral flute 45° right-hand spiral
- 2-pitch chamfer
- 15 % cutting angle
- For wrought aluminium alloys with 500 N/mm² strength max.
- Also for cast aluminium alloys with very low Si content (≤ 2 %)
- Tolerance class 2B

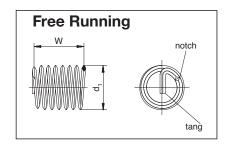
Technical information can be found on the last page.

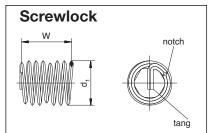


Diameter	Article number	Pitch	Nominal length
(d)		(P)	t <sub>2</sub>
UNF 1/4"-28	01414747152	0.91	6.4
UNF 5/16"-24	01414767152	1.05	19.8
UNF 3/8"-24	01414777152	1.05	9.5
UNF 7/16"-20	01414787152	1.27	11.1
UNF 4-48	01414657152	0.53	7.1
UNF 8-36	01414687152	0.71	4.2
UNF 10-32	01414697152	0.79	4.8

# All technical data refer to the measure mm

#### **HELICOIL® Plus** thread inserts





W and d<sub>1</sub> are the control values for thread inserts (Free Running and Screwlock) before they have been installed. The length can only be measured for installed thread inserts.

**Assembly** 

tang not broken off

#### **Holding thread**

## ⊢ D<sub>HC</sub> -D1HC-

### DHC D HC D<sub>1HC</sub> 60

Prior to tapping, counter-bore 90° and deburr. Outside diameter of **countersink** =  $D_{HC}$  + 0.1 mm.

- d = Nominal thread diameter
- = Thread pitch
- = Outside diameter of thread insert prior to installa-
- = Number of threads prior to installation
- $D_{HC}$  = Outside diameter of the parent thread
- D<sub>1HC</sub>= Crest diameter
- = Suitable twist drill diameter. Please note: D<sub>1HC</sub> is critical for selecting the correct twist drill diameter.
- = Minimum depth of tapped hole according to DIN 76 - Part 1 (guide value)
- = The nominal length of the thread insert corre $t_2$ sponds to the minimum length of the full parent thread for blind holes or the minimum plate thickness for a through hole.
- = Maximum screw-in depth when the tang is not
- = Distance of the thread insert from the joint face =  $t_5$ 0.25 to 0.5 P, if t<sub>2</sub> corresponds to the abovementioned minimum value

When you use HELICOIL® Plus thread inserts for volume production, we recommend to add at least 1 x P to values  $t_1$  and  $t_2$ .

