# HELICOIL® machine taps straight fluted | For through holes

Type 0141.1 HELICOIL® machine tap to create holding threads for HELICOIL® thread inserts with UNC threads as per NASM33537. The tap is suited for through holes and blind holes with a deeper tap hole.

# 

#### **Properties:**

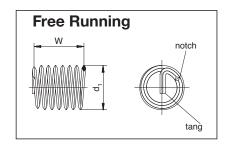
- Straight-fluted
- 4-pitch spiral point
- 10 % cutting angle
- For materials with 850 N/mm<sup>2</sup> strength max.
- Tolerance class 2B

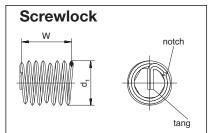
Technical information can be found on the last page.

Diameter	Article number	Pitch	Nominal length
(d)		(P)	t <sub>2</sub>
UNC 1/4"-20	01411746104	1.27	6.4
UNC 5/16"-18	01411766104	1.41	7.9
UNC 3/8"-16	01411776104	1.58	9.5
UNC 1/2"-13	01411796104	1.95	25.4
UNC 2-56	01411636104	0.43	2.2
UNC 4-40	01411656104	0.63	2.2
UNC 6-32	01411676104	0.79	8.8
UNC 8-32	01411686104	0.79	4.2
UNC 10-24	01411696104	1.05	5.5

# 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  $t_2$ .

