

# HELICOIL® machine taps

straight fluted | For through holes

Type 0141.1 HELICOIL® machine tap to create holding threads for HELICOIL® thread inserts with British Standard Pipe Threads (BSP/G) as per NASM33537. The tap is suited for through holes and blind holes with a deeper tap hole.



**Properties:**

- Straight-fluted
- With spiral point
- 2-pitch chamfer
- 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 (d)	Article number	Pitch (P)	Nominal length t <sub>2</sub>
G 1/8"-28	01410714102	0.91	4.8
G 1/4"-19	01410744102	1.34	9.5
G 3/8"-19	01410774102	1.34	14.3
G 1/2"-14	01410794102	1.81	19.1
G 5/8"-14	01410814102	1.81	23.8
G 3/4"-14	01410834102	1.81	28.6
G 7/8"-14	01410854102	1.81	33.3
G 1"-11	01410864102	2.31	38.1
G 1 1/4"-11	01410884102	2.31	47.6
G 1 1/2"-11	01410904102	2.31	57.2

All technical data refer to the measure mm



## HELICOIL® Plus thread inserts



W and  $d_1$  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.

### Holding thread



### Assembly



tang not broken off

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

- d = Nominal thread diameter
- P = Thread pitch
- $d_1$  = Outside diameter of thread insert prior to installation
- W = Number of threads prior to installation
- $D_{HC}$  = Outside diameter of the parent thread
- $D_{1HC}$  = Crest diameter
- B = Suitable twist drill diameter. Please note:  $D_{1HC}$  is critical for selecting the correct twist drill diameter.
- $t_1$  = Minimum depth of tapped hole according to DIN 76 – Part 1 (guide value)
- $t_2$  = The nominal length of the thread insert corresponds to the minimum length of the full parent thread for blind holes or the minimum plate thickness for a through hole.
- $t_3$  = Maximum screw-in depth when the tang is not removed
- $t_5$  = Distance of the thread insert from the joint face = 0.25 to 0.5 P, if  $t_2$  corresponds to the above-mentioned minimum value

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

All technical data refer to the measure mm

