

**Garant**
**Stub drill HSS-E N, TiN, Ø DC h8: 13 mm**

**Order data**

Order number	113230 13
GTIN	4045197006134
Item class	11B

**Description**
**Version:**

Particularly robust and strong due to strengthened core.  
Ground flutes, with high concentricity.

**Advantage:**

**Ideal for drilling shallow holes (approx. 2 - 4×D)** on NC machines and automatic machines.

**Recommendation:**
**Maximum drilling depth:**

$$L_2 = L_c - 1.5 \times D_c$$

Through-coolant: no

Standard: DIN 1897

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 31.5 mm

Flute length  $L_c$ : 51 mm

Overall length L: 102 mm

Shank Ø  $D_s$ : 13 mm

Feed f in steel < 900 N/mm<sup>2</sup>: 0.16 mm/rev.

**Technical description**

Number of cutting edges Z	2
Flute length $L_c$	51 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.16 mm/rev.
Nominal Ø $D_c$	13 mm

Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	13 mm
Overall length L	102 mm
Standard	DIN 1897
recommended maximum drilling depth $L_2$	31.5 mm
Point angle	130 degrees
Coating	TiN
Tool material	HSS E
Type	N
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill