

**Garant**
**Jobber drill, long, HSS-E N, uncoated, Ø DC h8: 9,8 mm**

**Order data**

Order number	116065 9,8
GTIN	4045197270788
Item class	11B

**Description**
**Version:**

Profile ground. Standard core thickness and core taper. Bright finish.  
With point geometry shape AC from 2 mm.

**Advantage:**

For drilling with drill bushes or long reach applications.  
For high-tensile tempered steels, **including TOOLOX**.

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

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

**Note:**

Suitable NC spotting drills No. 112103, 112110 and 112160 with **120° tip angle** for enhanced process reliability

Through-coolant: no

Standard: DIN 340

Tolerance nominal Ø: h8

Point angle: 118 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 106.3 mm

Flute length  $L_c$ : 121 mm

Overall length L: 184 mm

Shank Ø  $D_s$ : 9.8 mm

Feed  $f$  in steel < 1100 N/mm<sup>2</sup>: 0.08 mm/rev.

**Technical description**

Number of cutting edges Z	2
Flute length $L_c$	121 mm

Feed f in steel < 1100 N/mm <sup>2</sup>	0.08 mm/rev.
Nominal Ø D <sub>c</sub>	9.8 mm
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	9.8 mm
Overall length L	184 mm
Standard	DIN 340
recommended maximum drilling depth L <sub>2</sub>	106.3 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS E
Type	N
Helix angle	35-40 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	red
Type of product	Jobber drill