

## Garant

### Jobber drill, long, HSS-E N, uncoated, Ø DC h8: 9 mm



#### Order data

Order number	116065 9
GTIN	4045197270764
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  $L_2$ : 101.5 mm

Flute length  $L_c$ : 115 mm

Overall length L: 175 mm

Shank Ø  $D_s$ : 9 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 $L_c$	115 mm

Feed f in steel < 1100 N/mm <sup>2</sup>	0.08 mm/rev.
Nominal Ø D <sub>c</sub>	9 mm
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	9 mm
Overall length L	175 mm
Standard	DIN 340
recommended maximum drilling depth L <sub>2</sub>	101.5 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