

**Garant****Jobber drill long HSS N, uncoated, Ø DC h8: 1,9 mm****Order data**

Order number	116000 1,9
GTIN	4045197025210
Item class	11B

**Description****Version:**

Vaporised from 2.4 mm. Particularly for deep hole drilling (for deep holes, repeated chip evacuation is necessary).

With point geometry shape A from size 4 mm.

**Advantage:**

Especially suitable for **long reach purposes**. (When used to drill deep holes, low feed rates and frequent drill pecks are necessary).

**Recommendation:**

Maximum drilling depth:

flute length (see table) less 1.5×nominal Ø.

**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  $L_2$ : 50.15 mm

Flute length  $L_c$ : 53 mm

Overall length L: 80 mm

Shank Ø  $D_s$ : 1.9 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.02 mm/rev.

**Technical description**

Number of cutting edges Z	2
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Feed f in steel < 750 N/mm <sup>2</sup>	0.02 mm/rev.
Nominal Ø D <sub>c</sub>	1.9 mm
Flute length L <sub>c</sub>	53 mm
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	1.9 mm
Overall length L	80 mm
Standard	DIN 340
recommended maximum drilling depth L <sub>2</sub>	50.15 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS
Type	N
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill