

**Garant**
**Deep hole drill HSS-E, uncoated, Ø DC h8: 1,9 mm**

**Order data**

Order number	116061 1,9
GTIN	4045197026576
Item class	11B

**Description**
**Version:**

Significantly **strengthened core** without taper.

Precision ground point.

With **specialty shaped slots**. Designed for deep holes up to 10×D and materials with critical chip formation characteristics.

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

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

**Note:**

Suitable NC spotting drills No. 112120, 112140 and 112170 with **142° tip angle** for enhanced process reliability.

Through-coolant: no

Standard: DIN 340

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L<sub>2</sub>: 50.2 mm

Flute length L<sub>c</sub>: 53 mm

Overall length L: 80 mm

Shank Ø D<sub>s</sub>: 1.9 mm

Feed f in steel < 500 N/mm<sup>2</sup>: 0.05 mm/rev.

**Technical description**

Feed f in steel < 500 N/mm <sup>2</sup>	0.05 mm/rev.
Flute length L <sub>c</sub>	53 mm
Number of cutting edges Z	2

Nominal $\varnothing D_c$	1.9 mm
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	1.9 mm
Overall length L	80 mm
Standard	DIN 340
recommended maximum drilling depth $L_2$	50.2 mm
Point angle	130 degrees
Coating	uncoated
Tool material	HSS E
Type	FS
Helix angle	38 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill