

**Garant**
**Deep hole drill HSS-E, uncoated, Ø DC h8: 3,1 mm**

**Order data**

Order number	116061 3,1
GTIN	4045197026699
Item class	11B

**Description**
**Version:**

Significantly **strengthened core** without taper.

Precision ground point.

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

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

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

**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  $L_2$ : 64.4 mm

Flute length  $L_c$ : 69 mm

Overall length L: 106 mm

Shank Ø  $D_s$ : 3.1 mm

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

**Technical description**

Number of cutting edges Z	2
Nominal Ø $D_c$	3.1 mm
Flute length $L_c$	69 mm

Feed f in steel < 500 N/mm <sup>2</sup>	0.05 mm/rev.
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	3.1 mm
Overall length L	106 mm
Standard	DIN 340
recommended maximum drilling depth L <sub>2</sub>	64.4 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