

**Garant**
**Jobber drill HSS-E FS, uncoated, Ø DC h8: 9,9 mm**

**Order data**

Order number	114450 9,9
GTIN	4045197019189
Item class	11B

**Description**
**Version:**

**Profile ground:** this ensures high concentricity and pitch accuracy. Precision ground point. Drill for production use.

**Strengthened core.**

Bright finish **parabolic flutes**, from 3 mm nitrided lands.

With point geometry shape C up to size 3.9 mm

With point geometry shape S from size 4 mm

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

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

Through-coolant: no

Standard: DIN 338

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 72.2 mm

Flute length  $L_c$ : 87 mm

Overall length L: 133 mm

Shank Ø  $D_s$ : 9.9 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.1 mm/rev.

**Technical description**

Nominal Ø $D_c$	9.9 mm
Flute length $L_c$	87 mm
Number of cutting edges Z	2

Feed f in steel < 750 N/mm <sup>2</sup>	0.1 mm/rev.
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	9.9 mm
Overall length L	133 mm
Standard	DIN 338
recommended maximum drilling depth L <sub>2</sub>	72.2 mm
Point angle	130 degrees
Coating	uncoated
Tool material	HSS E
Type	FS
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill