

## Garant

**Jobber drill, extra long HSS-E FS, uncoated, Ø DC h8 × overall length L:  
4,5X185 mm**



### Order data

Order number	116250 4,5X185
GTIN	4062406265830
Item class	11B

### Description

#### Version:

With precision ground point.

Special 4-chamfer relief ground for very good guidance within the bore. Bright finish flutes, nitrided chamfers.

With point geometry shape C.

#### Advantage:

**Special deep hole drills. For particularly deep or recessed holes.** Good chip evacuation due to parabolic flutes, resulting in fewer chip evacuations even in particularly deep holes.

#### 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 1869

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 118.3 mm

Flute length  $L_C$ : 125 mm

Overall length L: 185 mm

Shank Ø  $D_s$ : 4.5 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.05 mm/rev.

### Technical description

Flute length $L_c$	125 mm
recommended maximum drilling depth $L_2$	118.3 mm
Point angle	130 degrees
Feed $f$ in steel $< 750 \text{ N/mm}^2$	0.05 mm/rev.
Standard	DIN 1869
Shank $\varnothing D_s$	4.5 mm
Nominal $\varnothing D_c$	4.5 mm
Overall length $L$	185 mm
Tolerance nominal $\varnothing$	h8
Number of cutting edges $Z$	2
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