

**Garant**
**Jobber drill, extra long HSS-E FS, TiAlN, Ø DC h8 × overall length L: 5X195 mm**

**Order data**

Order number	116280 5X195
GTIN	4045197029065
Item class	11B

**Description**
**Version:**

With point geometry shape C.

**Advantage:**

**Particularly suitable for drilling under difficult conditions**, e.g. insufficient cooling of the cutting edges due to poor chip evacuation.

**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: 135 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 127.5 mm

Flute length  $L_c$ : 135 mm

Overall length L: 195 mm

Shank Ø  $D_s$ : 5 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.07 mm/rev.

**Technical description**

Flute length $L_c$	135 mm
Number of cutting edges Z	2
Feed f in steel < 750 N/mm <sup>2</sup>	0.07 mm/rev.

Nominal $\varnothing D_c$	5 mm
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	5 mm
Overall length L	195 mm
Standard	DIN 1869
recommended maximum drilling depth $L_2$	127.5 mm
Point angle	135 degrees
Coating	TiAlN
Tool material	HSS E
Type	FS
Helix angle	38 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill