

## Garant

**Jobber drill, extra long HSS-E FS, TiAlN, Ø DC h8×overall length: 4X220 mm**



### Order data

Order number	116280 4X220
GTIN	4045197029027
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:**

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 1869

Tolerance nominal Ø: h8

Point angle: 135 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L<sub>2</sub>: 144 mm

Flute length L<sub>c</sub>: 150 mm

Overall length L: 220 mm

Shank Ø D<sub>s</sub>: 4 mm

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

### Technical description

Nominal Ø D <sub>c</sub>	4 mm
Feed f in steel < 750 N/mm <sup>2</sup>	0.05 mm/rev.
Number of cutting edges Z	2

Flute length $L_c$	150 mm
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	4 mm
Overall length L	220 mm
Standard	DIN 1869
recommended maximum drilling depth $L_2$	144 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