

Garant

**Jobber drill, extra long HSS-E FS, uncoated, Ø DC h8 × overall length L:
4,5X235 mm**



Order data

Order number	116250 4,5X235
GTIN	4062406265847
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:

Flute length L_c (see table) less $1.5 \times \varnothing D_c$.

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 \varnothing : h8

Point angle: 130 degrees

Number of cutting edges Z: 2

Flute length L_c : 160 mm

Overall length L: 235 mm

Shank $\varnothing D_s$: 4.5 mm

Feed f in steel $< 750 \text{ N/mm}^2$: 0.05 mm/rev.

Technical description

Flute length L_c	160 mm
--------------------	--------

Shank $\varnothing D_s$	4.5 mm
Standard	DIN 1869
Nominal $\varnothing D_c$	4.5 mm
Tolerance nominal \varnothing	h8
Number of cutting edges Z	2
Feed f in steel < 750 N/mm ²	0.05 mm/rev.
Overall length L	235 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