

Garant
Jobber drill HSS-E FS, uncoated, Ø DC h8: 4,5 mm

Order data

Order number	114450 4,5
GTIN	4045197018649
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 : 40.3 mm

Flute length L_c : 47 mm

Overall length L: 80 mm

Shank Ø D_s : 4.5 mm

Feed f in steel < 750 N/mm²: 0.05 mm/rev.

Technical description

Flute length L_c	47 mm
Feed f in steel < 750 N/mm ²	0.05 mm/rev.
Nominal Ø D_c	4.5 mm

Number of cutting edges Z	2
Tolerance nominal \varnothing	h8
Shank $\varnothing D_s$	4.5 mm
Overall length L	80 mm
Standard	DIN 338
recommended maximum drilling depth L_2	40.3 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