

Garant
Stub drill HSS-E FS, uncoated, Ø DC h8: 3,3 mm

Order data

Order number	113020 3,3
GTIN	4045197002099
Item class	11B

Description
Version:

Particularly **robust and strong** due to **strengthened core**.

Ground flutes, with high concentricity.

Bright finish flutes, nitrided lands.

With point geometry shape C up to 3.9 mm; shape S (special) from 4 mm.

Advantage:

Ideal for drilling shallow holes (approx. 2 - 4×D) on NC machines and automatic machines.

Recommendation:
Maximum drilling depth:

flute length (see table) less 1.5×nominal Ø.

Through-coolant: no

Standard: DIN 1897

Tolerance nominal Ø: h8

Point angle: 135 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L₂: 13.1 mm

Flute length L_c: 18 mm

Overall length L: 49 mm

Shank Ø D_s: 3.3 mm

Feed f in steel < 750 N/mm²: 0.03 mm/rev.

Technical description

Nominal Ø D _c	3.3 mm
Number of cutting edges Z	2
Feed f in steel < 750 N/mm ²	0.03 mm/rev.

Flute length L_c	18 mm
Tolerance nominal \varnothing	h8
Shank $\varnothing D_s$	3.3 mm
Overall length L	49 mm
Standard	DIN 1897
recommended maximum drilling depth L_2	13.1 mm
Point angle	135 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