

## Garant

### Stub drill HSS-E N, uncoated, Ø DC h8: 3,1 mm



#### Order data

Order number	113150 3,1
GTIN	4045197004291
Item class	11B

#### Description

##### Version:

Particularly robust and strong due to strengthened core.

Ground flutes, with high concentricity.

Bright finish.

##### 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: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 13.4 mm

Flute length  $L_c$ : 18 mm

Overall length L: 49 mm

Shank Ø  $D_s$ : 3.1 mm

Feed f in steel < 900 N/mm<sup>2</sup>: 0.03 mm/rev.

#### Technical description

Nominal Ø $D_c$	3.1 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.03 mm/rev.
Number of cutting edges Z	2
Flute length $L_c$	18 mm

Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	3.1 mm
Overall length L	49 mm
Standard	DIN 1897
recommended maximum drilling depth $L_2$	13.4 mm
Point angle	130 degrees
Coating	uncoated
Tool material	HSS E
Type	N
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

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## Accessories

Stub drill set HSS-E No. 113150, type N as a refill set,  
without case Type 1-13

113730 1-13