

## Garant

### Stub drill HSS-E N, TiN, Ø DC h8: 4,5 mm



#### Order data

Order number	113230 4,5
GTIN	4045197005465
Item class	11B

#### Description

##### Version:

Particularly robust and strong due to strengthened core.  
Ground flutes, with high concentricity.

##### Advantage:

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

##### Recommendation:

##### Maximum drilling depth:

$$L_2 = L_c - 1.5 \times D_c$$

Through-coolant: no

Standard: DIN 1897

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 17.3 mm

Flute length  $L_c$ : 24 mm

Overall length L: 58 mm

Shank Ø  $D_s$ : 4.5 mm

Feed f in steel < 900 N/mm<sup>2</sup>: 0.05 mm/rev.

#### Technical description

Number of cutting edges Z	2
Flute length $L_c$	24 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.05 mm/rev.
Nominal Ø $D_c$	4.5 mm

Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	4.5 mm
Overall length L	58 mm
Standard	DIN 1897
recommended maximum drilling depth $L_2$	17.3 mm
Point angle	130 degrees
Coating	TiN
Tool material	HSS E
Type	N
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill