

## Garant

### Deep hole drill HSS-E, TiAlN, Ø DC h8: 4,5 mm



#### Order data

Order number	116063 4,5
GTIN	4045197871244
Item class	11B

#### Description

##### Version:

Significantly **strengthened core** without taper.

Precision ground point.

With **specially shaped slots**. Designed for deep holes up to 10×D and materials with critical chip formation characteristics.

With **TiAlN coating** for long tool lives.

##### Recommendation:

##### Maximum drilling depth:

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

##### Note:

Suitable NC spotting drills No. 112120, 112140 and 112170 with **142° tip angle** for enhanced process reliability

Through-coolant: no

Standard: DIN 340

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 75.3 mm

Flute length  $L_c$ : 82 mm

Overall length L: 126 mm

Shank Ø  $D_s$ : 4.5 mm

Feed  $f$  in steel < 750 N/mm<sup>2</sup>: 0.05 mm/rev.

#### Technical description

Number of cutting edges Z	2
Overall length L	126 mm

recommended maximum drilling depth $L_2$	75.3 mm
Nominal $\varnothing D_c$	4.5 mm
Feed $f$ in steel $< 750 \text{ N/mm}^2$	0.05 mm/rev.
Standard	DIN 340
Shank $\varnothing D_s$	4.5 mm
Tolerance nominal $\varnothing$	h8
Flute length $L_c$	82 mm
Point angle	130 degrees
Coating	TiAlN
Tool material	HSS E
Type	FS
Helix angle	38 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill