

## Garant

### Jobber drill, long, HSS-E N, uncoated, Ø DC h8: 12 mm



#### Order data

Order number	116065 12
GTIN	4045197270849
Item class	11B

#### Description

##### Version:

Profile ground. Standard core thickness and core taper. Bright finish.  
With point geometry shape AC from 2 mm.

##### Advantage:

For drilling with drill bushes or long reach applications.  
For high-tensile tempered steels, **including TOOLOX**.

##### Recommendation:

##### Maximum drilling depth:

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

##### Note:

Suitable NC spotting drills No. 112103, 112110 and 112160 with **120° tip angle** for enhanced process reliability

Through-coolant: no

Standard: DIN 340

Tolerance nominal Ø: h8

Point angle: 118 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 116 mm

Flute length  $L_c$ : 134 mm

Overall length L: 205 mm

Shank Ø  $D_s$ : 12 mm

Feed f in steel < 1100 N/mm<sup>2</sup>: 0.12 mm/rev.

#### Technical description

Feed f in steel < 1100 N/mm <sup>2</sup>	0.12 mm/rev.
Flute length $L_c$	134 mm

Number of cutting edges Z	2
Nominal $\varnothing D_c$	12 mm
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	12 mm
Overall length L	205 mm
Standard	DIN 340
recommended maximum drilling depth $L_2$	116 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS E
Type	N
Helix angle	35-40 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	red
Type of product	Jobber drill