

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

**Order data**

Order number	114450 3
GTIN	4045197018496
Item class	11B

**Description**
**Version:**

**Profile ground:** this ensures high concentricity and pitch accuracy. Precision ground point. Drill for production use.

**Strengthened core.**

Bright finish **parabolic flutes**, from 3 mm nitrided lands.

With point geometry shape C up to size 3.9 mm

With point geometry shape S from size 4 mm

**Recommendation:**
**Maximum drilling depth:**

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

Through-coolant: no

Standard: DIN 338

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 28.5 mm

Flute length  $L_c$ : 33 mm

Overall length L: 61 mm

Shank Ø  $D_s$ : 3 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.03 mm/rev.

**Technical description**

Flute length $L_c$	33 mm
Number of cutting edges Z	2
Feed f in steel < 750 N/mm <sup>2</sup>	0.03 mm/rev.

Nominal $\varnothing D_c$	3 mm
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	3 mm
Overall length L	61 mm
Standard	DIN 338
recommended maximum drilling depth $L_2$	28.5 mm
Point angle	130 degrees
Coating	uncoated
Tool material	HSS E
Type	FS
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

## Accessories

Jobber drill set HSS-E No. 114500 as refill set Type 1-10	115355 1-10
Jobber drill set HSS-E No. 114450 in a case Type 1-10	115320 1-10
Jobber drill set HSS-E No. 114450 in a case Type 1-13	115320 1-13