

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

**Order data**

|              |               |
|--------------|---------------|
| Order number | 114450 3,3    |
| GTIN         | 4045197018526 |
| 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:**

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

Through-coolant: no

Standard: DIN 338

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 31.1 mm

Flute length  $L_c$ : 36 mm

Overall length L: 65 mm

Shank Ø  $D_s$ : 3.3 mm

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

**Technical description**

|   |              |
|---|--------------|
| Nominal Ø $D_c$                         | 3.3 mm       |
| Flute length $L_c$                      | 36 mm        |
| Feed f in steel < 750 N/mm <sup>2</sup> | 0.03 mm/rev. |

|  |              |
|--|--------------|
| Number of cutting edges Z                | 2            |
| Tolerance nominal $\varnothing$          | h8           |
| Shank $\varnothing D_s$                  | 3.3 mm       |
| Overall length L                         | 65 mm        |
| Standard                                 | DIN 338      |
| recommended maximum drilling depth $L_2$ | 31.1 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 |