

**Garant**
**Stub drill HSS-E FS, uncoated, Ø DC h8: 3,9 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 113020 3,9    |
| GTIN         | 4045197002150 |
| Item class   | 11B           |

**Description**
**Version:**

Particularly **robust and strong** due to **strengthened core**.

Ground flutes, with high concentricity.

Bright finish flutes, nitrided lands.

With point geometry shape C up to 3.9 mm; shape S (special) from 4 mm.

**Advantage:**

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

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

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

Through-coolant: no

Standard: DIN 1897

Tolerance nominal Ø: h8

Point angle: 135 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L<sub>2</sub>: 16.2 mm

Flute length L<sub>c</sub>: 22 mm

Overall length L: 55 mm

Shank Ø D<sub>s</sub>: 3.9 mm

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

**Technical description**

|                             |        |
|-----------------------------|--------|
| Nominal Ø D <sub>c</sub>    | 3.9 mm |
| Flute length L <sub>c</sub> | 22 mm  |
| Number of cutting edges Z   | 2      |

|   |              |
|---|--------------|
| Feed f in steel < 750 N/mm <sup>2</sup>           | 0.03 mm/rev. |
| Tolerance nominal Ø                               | h8           |
| Shank Ø D <sub>s</sub>                            | 3.9 mm       |
| Overall length L                                  | 55 mm        |
| Standard  | DIN 1897     |
| recommended maximum drilling depth L <sub>2</sub> | 16.2 mm      |
| Point angle                                       | 135 degrees  |
| Coating   | uncoated     |
| Tool material                                     | HSS E        |
| Type  | FS           |
| Helix angle                                       | 38 degrees   |
| Shank   | Plain shank  |
| Through-coolant                                   | no           |
| Colour ring                                       | without      |
| Type of product                                   | Jobber drill |