

**Garant**
**Stub drill HSS-E FS, uncoated, Ø DC h8: 9,2mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 113020 9,2    |
| GTIN         | 4045197002716 |
| 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 - 4xD)** on NC machines and automatic machines.

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

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

**Technical description**

|                                                   |             |
|---------------------------------------------------|-------------|
| Feed f in steel < 750 N/mm <sup>2</sup>           | 0.1 mm/rev. |
| Number of cutting edges Z                         | 2           |
| Flute length L <sub>c</sub>                       | 40 mm       |
| Nominal Ø D <sub>c</sub>                          | 9.2 mm      |
| Tolerance nominal Ø                               | h8          |
| Shank Ø D <sub>s</sub>                            | 9.2 mm      |
| Overall length L                                  | 84 mm       |
| Standard                                          | DIN 1897    |
| recommended maximum drilling depth L <sub>2</sub> | 26.2 mm     |
| Point angle                                       | 135 degrees |

|                 |              |
|-----------------|--------------|
| Shank           | Plain shank  |
| Coating         | uncoated     |
| Tool material   | HSS E        |
| Type            | FS           |
| Helix angle     | 38 degrees   |
| Through-coolant | no           |
| Colour ring     | without      |
| Type of product | Jobber drill |

### User data

|                               | Suitability | V <sub>c</sub> | ISO code |
|-------------------------------|-------------|----------------|----------|
| Alu plastics                  | suitable    | 70 m/min       | N        |
| Aluminium (short chipping)    | suitable    | 45 m/min       | N        |
| Steel < 500 N/mm <sup>2</sup> | suitable    | 40 m/min       | P        |
| Steel < 750 N/mm <sup>2</sup> | suitable    | 30 m/min       | P        |
| GG(G)                         | suitable    | 25 m/min       | K        |
| Oil                           | suitable    |                |          |
| wet maximum                   | suitable    |                |          |