

**Garant****Stub drill HSS-E FS, uncoated, Ø DC h8: 10,5mm****Order data**

Order number	113020 10,5
GTIN	4045197002846
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**

Flute length $L_c$	43 mm
Feed $f$ in steel $< 750 \text{ N/mm}^2$	0.1 mm/rev.
Number of cutting edges $Z$	2
Nominal $\varnothing D_c$	10.5 mm
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	10.5 mm
Overall length $L$	89 mm
Standard	DIN 1897
recommended maximum drilling depth $L_2$	27.3 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**

	<b>Suitability</b>	<b>V<sub>c</sub></b>	<b>ISO code</b>
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		