

**Garant**
**Stub drill HSS-Co8 FS, TiAlN, Ø DC h8: 12 mm**

**Order data**

Order number	113140 12
GTIN	4045197004079
Item class	11B

**Description**
**Version:**

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

Ground flutes, with high concentricity.

With point geometry shape S (special)

**Advantage:**

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

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

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

Through-coolant: no

Standard: DIN 1897

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 33 mm

Flute length  $L_c$ : 51 mm

Overall length L: 102 mm

Shank Ø  $D_s$ : 12 mm

Feed f in steel < 750 N/mm<sup>2</sup>: 0.16 mm/rev.

**Technical description**

Number of cutting edges Z	2
Flute length $L_c$	51 mm
Feed f in steel < 750 N/mm <sup>2</sup>	0.16 mm/rev.
Nominal Ø $D_c$	12 mm

Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	12 mm
Overall length L	102 mm
Standard	DIN 1897
recommended maximum drilling depth $L_2$	33 mm
Point angle	130 degrees
Coating	TiAlN
Tool material	HSS Co 8
Type	FS
Helix angle	38 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill