

Garant**Stub drill HSS-Co8 FS, TiAlN, Ø DC h8: 3,3mm****Order data**

Order number	113140 3,3
GTIN	4045197003393
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:**

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

Technical description

Flute length L_c	18 mm
Nominal $\varnothing D_c$	3.3 mm
Number of cutting edges Z	2
Feed f in steel < 750 N/mm ²	0.03 mm/rev.
Tolerance nominal $\varnothing$	h8
Shank $\varnothing D_s$	3.3 mm
Overall length L	49 mm
Standard	DIN 1897
recommended maximum drilling depth L_2	13.1 mm
Point angle	130 degrees

Shank	Plain shank
Coating	TiAlN
Tool material	HSS Co 8
Type	FS
Helix angle	38 degrees
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

User data

	Suitability	V _c	ISO code
Alu plastics	suitable only under restricted conditions	87 m/min	N
Aluminium (short chipping)	suitable	56 m/min	N
Alu > 10% Si	suitable only under restricted conditions	50 m/min	N
Steel < 500 N/mm ²	suitable	50 m/min	P
Steel < 750 N/mm ²	suitable	35 m/min	P
Steel < 900 N/mm ²	suitable	30 m/min	P
Steel < 1100 N/mm ²	suitable	12 m/min	P
INOX < 900 N/mm ²	suitable only under restricted conditions	15 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	10 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	6 m/min	S
Oil	suitable		
wet maximum	suitable		

