

Garant**Stub drill HSS-E N, TiN, Ø DC h8: 13,5mm****Order data**

Order number	113230 13,5
GTIN	4045197006141
Item class	11B

Description**Version:**

Particularly robust and strong due to strengthened core.
Ground flutes, with high concentricity.

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

Number of cutting edges Z	2
Flute length L_c	54 mm
Feed f in steel < 900 N/mm ²	0.16 mm/rev.
Nominal Ø D_c	13.5 mm
Tolerance nominal Ø	h8
Shank Ø D_s	13.5 mm
Overall length L	107 mm
Standard	DIN 1897
recommended maximum drilling depth L_2	33.8 mm
Point angle	130 degrees
Shank	Plain shank

Coating	TiN
Tool material	HSS E
Type	N
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

User data

	Suitability	V _c	ISO code
Steel < 500 N/mm ²	suitable	50 m/min	P
Steel < 750 N/mm ²	suitable	37 m/min	P
Steel < 900 N/mm ²	suitable	31 m/min	P
Steel < 1100 N/mm ²	suitable	12 m/min	P
Steel < 1400 N/mm ²	suitable	10 m/min	P
INOX < 900 N/mm ²	suitable	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
GG(G)	suitable	31 m/min	K
CuZn	suitable only under restricted conditions	100 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		