

Garant
Stub drill HSS-E N, uncoated, Ø DC h8: 13,5mm

Order data

Order number	113150 13,5
GTIN	4045197586322
Item class	11B

Description
Version:

Particularly robust and strong due to strengthened core.

Ground flutes, with high concentricity.

Bright finish.

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

Nominal Ø D _c	13.5 mm
Number of cutting edges Z	2
Flute length L _c	54 mm
Feed f in steel < 900 N/mm ²	0.16 mm/rev.
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	uncoated
Tool material	HSS E
Type	N
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	80 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	45 m/min	N
Alu > 10% Si	suitable only under restricted conditions	50 m/min	N
Steel < 500 N/mm ²	suitable	40 m/min	P
Steel < 750 N/mm ²	suitable	30 m/min	P
Steel < 900 N/mm ²	suitable	25 m/min	P
Steel < 1100 N/mm ²	suitable only under restricted conditions	10 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	8 m/min	P
INOX < 900 N/mm ²	suitable	12 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	8 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	5 m/min	S
GG(G)	suitable	25 m/min	K
CuZn	suitable only under restricted conditions	80 m/min	N

Uni	suitable
Oil	suitable
wet maximum	suitable