

**Garant**
**Stub drill HSS-E N, uncoated, Ø DC h8: 4,65mm**

**Order data**

Order number	113150 4,65
GTIN	4045197004451
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 - 4×D)** on NC machines and automatic machines.

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

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

**Technical description**

Nominal Ø D <sub>c</sub>	4.65 mm
Number of cutting edges Z	2
Feed f in steel < 900 N/mm <sup>2</sup>	0.05 mm/rev.
Flute length L <sub>c</sub>	24 mm
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	4.65 mm
Overall length L	58 mm
Standard	DIN 1897
recommended maximum drilling depth L <sub>2</sub>	17 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 <sub>c</sub>	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 <sup>2</sup>	suitable	40 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable only under restricted conditions	10 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	8 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	12 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	8 m/min	M
Ti > 850 N/mm <sup>2</sup>	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