

**Garant**
**Stub drill with 3 clamping faces HSS-E, uncoated, Ø DC h8: 4,5mm**

**Order data**

Order number	113001 4,5
GTIN	4045197749703
Item class	11B

**Description**
**Version:**

Stable and sturdy stub drill with **strengthened core diameter**. Ground flutes, with high concentricity. Precision ground point.

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

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

**Note:**

Three **drive flats on the shank** for use in a 3-jaw chuck.

**Technical description**

Shank Ø D <sub>s</sub>	4.5 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.05 mm/rev.
Tolerance nominal Ø	h8
Overall length L	58 mm
Nominal Ø D <sub>c</sub>	4.5 mm
Number of cutting edges Z	2
Standard	DIN 1897
Flute length L <sub>c</sub>	24 mm
recommended maximum drilling depth L <sub>2</sub>	17.3 mm
Point angle	130 degrees
Shank	Three drive flats 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	70 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	45 m/min	N
Alu > 10% Si	suitable only under restricted conditions	40 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	10 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	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
GG(G)	suitable only under restricted conditions	25 m/min	K
CuZn	suitable only under restricted conditions	80 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		

