

## Garant

### Jobber drill with 3 clamping faces HSS-E, uncoated, Ø DC h8: 13,5mm



#### Order data

Order number	114001 13,5
GTIN	4045197750129
Item class	11B

#### Description

##### Version:

Particularly sturdy and robust due to the **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:

Shank Ø 9.5 mm.

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

#### Technical description

Number of cutting edges Z	2
Shank Ø D <sub>s</sub>	9.5 mm
Nominal Ø D <sub>c</sub>	13.5 mm
Overall length L	160 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.16 mm/rev.
Standard	DIN 338
Flute length L <sub>c</sub>	108 mm
Tolerance nominal Ø	h8
recommended maximum drilling depth L <sub>2</sub>	87.8 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		

