

**Garant**
**Jobber drill HSS-E FS, uncoated, Ø DC h8: 3,8mm**

**Order data**

Order number	114450 3,8
GTIN	4045197018571
Item class	11B

**Description**
**Version:**

**Profile ground:** this ensures high concentricity and pitch accuracy. Precision ground point. Drill for production use.

**Strengthened core.**

Bright finish **parabolic flutes**, from 3 mm nitrided chamfers.

With point geometry shape C up to size 3.9 mm

With point geometry shape S from size 4 mm

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

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

**Technical description**

Number of cutting edges Z	2
Nominal Ø D <sub>c</sub>	3.8 mm
Flute length L <sub>c</sub>	43 mm
Feed f in steel < 750 N/mm <sup>2</sup>	0.03 mm/rev.
Tolerance nominal Ø	h8
Shank Ø D <sub>s</sub>	3.8 mm
Overall length L	75 mm
Standard	DIN 338
recommended maximum drilling depth L <sub>2</sub>	37.3 mm
Point angle	130 degrees

Shank	Plain shank
Coating	uncoated
Tool material	HSS E
Type	FS
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

### User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	70 m/min	N
Aluminium (short chipping)	suitable	45 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 only under restricted conditions	25 m/min	P
GG(G)	suitable	25 m/min	K
Oil	suitable		
wet maximum	suitable		