

Garant
Jobber drill HSS-E FS, uncoated, Ø DC h8: 13mm

Order data

Order number	114450 13
GTIN	4045197019325
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

Feed f in steel < 750 N/mm ²	0.16 mm/rev.
Flute length L _c	101 mm
Nominal Ø D _c	13 mm
Number of cutting edges Z	2
Tolerance nominal Ø	h8
Shank Ø D _s	13 mm
Overall length L	151 mm
Standard	DIN 338
recommended maximum drilling depth L ₂	81.5 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 _c	ISO code
Alu plastics	suitable	70 m/min	N
Aluminium (short chipping)	suitable	45 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 only under restricted conditions	25 m/min	P
GG(G)	suitable	25 m/min	K
Oil	suitable		
wet maximum	suitable		