

Garant**Jobber drill HSS-E N, uncoated, Ø DC h8: 3,1mm****Order data**

Order number	114400 3,1
GTIN	4045197017468
Item class	11B

Description**Version:**

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

Reinforced core, bright finish.

With point geometry shape C from size 2 mm

Recommendation:**Maximum drilling depth:**

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

Technical description

Nominal Ø D _c	3.1 mm
Feed f in steel < 750 N/mm ²	0.03 mm/rev.
Flute length L _c	36 mm
Number of cutting edges Z	2
Tolerance nominal Ø	h8
Shank Ø D _s	3.1 mm
Overall length L	65 mm
Standard	DIN 338
recommended maximum drilling depth L ₂	31.4 mm
Point angle	130 degrees
Shank	Plain shank

Coating	uncoated
Tool material	HSS E
Type	N
Through-coolant	no
Colour ring	red
Type of product	Jobber drill

User data

	Suitability	V _c	ISO code
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	25 m/min	P
Steel < 1100 N/mm ²	suitable	10 m/min	P
Steel < 1400 N/mm ²	suitable	8 m/min	P
TOOLOX 33	suitable	8 m/min	H
INOX < 900 N/mm ²	suitable	12 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	8 m/min	M
Ti > 850 N/mm ²	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		