

**Garant****HSS jobber drill N, uncoated, Ø DC h8 (mm or inch): 0,45****Order data**

Order number	114150 0,45
GTIN	4045197012319
Item class	11B

**Description****Version:**

Profile ground: Jobber drill with high pitch accuracy and concentricity as well as precision ground point.

Steam tempered from Ø 2.4 mm.

With point geometry shape C from size 4 mm

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

$L_2 = L_c - 1.5 \times D_c$ .

**Note:**

Size 16 - 20: Drills with shank Ø 16 mm.

**Technical description**

Flute length $L_c$	5 mm
Feed $f$ in steel $< 750 \text{ N/mm}^2$	0.03 mm/rev.
Nominal Ø $D_c$	0.45 mm
Number of cutting edges $Z$	2
Tolerance nominal Ø	h8
Shank Ø $D_s$	0.45 mm
Overall length $L$	20 mm
Standard	DIN 338
recommended maximum drilling depth $L_2$	4 mm
Point angle	118 degrees

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

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable only under restricted conditions	80 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	45 m/min	N
Alu > 10% Si	suitable only under restricted conditions	50 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 only under restricted conditions	10 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	8 m/min	P
GG(G)	suitable	25 m/min	K
CuZn	suitable	80 m/min	N
Oil	suitable		
wet maximum	suitable		