

**Garant**
**HSS jobber drill N, uncoated, Ø DC h8: 31 mm**

**Order data**

Order number	116340 31
GTIN	4045197030818
Item class	11C

**Description**
**Version:**

Special surface treatment, resulting in reduced tendency to edge build-up **and improved chip evacuation.**

**Top quality high performance twist drills.**

Cutting edge section  $\leq 26.5$  mm Ø ground from solid,  $> 26.5$  mm Ø milled. This ensures high concentricity and pitch accuracy, and precision ground point up to 40 mm Ø.

With shape A point.

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

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

**Note:**

For suitable reducing adapters for tools with MT shanks see **No. 343000-343530.**

Through-coolant: no

Standard: DIN 345

Tolerance nominal Ø: h8

Point angle: 118 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 133.5 mm

Flute length  $L_c$ : 180 mm

Overall length L: 301 mm

Morse taper MT size: 3

Feed f in steel  $< 750$  N/mm<sup>2</sup>: 0.25 mm/rev.

**Technical description**

Feed f in steel $< 750$ N/mm <sup>2</sup>	0.25 mm/rev.
Flute length $L_c$	180 mm

Number of cutting edges Z	2
Nominal $\varnothing D_c$	31 mm
Tolerance nominal $\varnothing$	h8
Overall length L	301 mm
Morse taper MT size	3
Standard	DIN 345
recommended maximum drilling depth $L_2$	133.5 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS
Type	N
Helix angle	20-30 degrees
Shank	Morse taper
Through-coolant	no
Colour ring	without
Type of product	Jobber drill