

**Garant**
**Jobber drill long HSS N, uncoated, Ø DC h8: 19 mm**

**Order data**

Order number	116700 19
GTIN	4045197034366
Item class	11C

**Description**
**Version:**

Compared to DIN 345 the flute length is longer by the drill bushing height. Thus the effective drilling depth is unaffected. Special surface treatment for improved chip evacuation.

With point geometry shape A.

**Advantage:**

**For drilling through drill bushings** in tool making, machine building and series production. Particularly important for drilling into uneven, inclined or arched surfaces.

**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 341

Tolerance nominal Ø: h8

Point angle: 118 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 142.5 mm

Flute length  $L_c$ : 171 mm

Overall length L: 269 mm

Morse taper MT size: 2

Feed f in steel < 750 N/mm<sup>2</sup>: 0.2 mm/rev.

**Technical description**

Flute length $L_c$	171 mm
Number of cutting edges Z	2

Nominal Ø D <sub>c</sub>	19 mm
Feed f in steel < 750 N/mm <sup>2</sup>	0.2 mm/rev.
Tolerance nominal Ø	h8
Overall length L	269 mm
Morse taper MT size	2
Standard	DIN 341
recommended maximum drilling depth L <sub>2</sub>	142.5 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS
Type	N
Helix angle	16-30 degrees
Shank	Morse taper
Through-coolant	no
Colour ring	without
Type of product	Jobber drill