

**Garant**
**Jobber drill extra long HSS FS, uncoated, Ø DC h8: 19R1 mm**

**Order data**

Order number	116720 19R1
GTIN	4045197034953
Item class	11C

**Description**
**Version:**

High concentricity.

**Large section parabolic flutes;** strong due to strengthened core thickness (without core taper).

≤ 16 mm Ø: Bright finish flutes, nitrided lands; > 16 mm Ø: Specially treated surface.

Special sturdy drills **for extremely deep holes.** Up to approx. 15×Ø without drill withdrawal.

With point geometry shape A.

**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 1870 R1

Tolerance nominal Ø: h8

Point angle: 130 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth  $L_2$ : 216.5 mm

Flute length  $L_c$ : 245 mm

Overall length L: 370 mm

Morse taper MT size: 2

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

**Technical description**

Flute length $L_c$	245 mm
Number of cutting edges Z	2
Nominal Ø $D_c$	19 mm

Feed f in steel < 750 N/mm <sup>2</sup>	0.2 mm/rev.
Tolerance nominal Ø	h8
Overall length L	370 mm
Morse taper MT size	2
Standard	DIN 1870 R1
recommended maximum drilling depth L <sub>2</sub>	216.5 mm
Point angle	130 degrees
Coating	uncoated
Tool material	HSS
Type	FS
Shank	Morse taper
Through-coolant	no
Colour ring	without
Type of product	Jobber drill