# Garant

HSS jobber drill N, uncoated, Ø DC h8: 19,5mm



## Order data

Order number	116340 19,5		
GTIN	4045197030443		
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.

## **Technical description**

Number of cutting edges Z	2		
Nominal Ø D <sub>c</sub>	19.5 mm		
Flute length L <sub>c</sub>	140 mm		
Feed f in steel < 750 N/mm <sup>2</sup>	0.2 mm/rev.		
Tolerance nominal Ø	h8		
Overall length L	238 mm		
Morse taper MT size	2		
Standard	DIN 345		

recommended maximum drilling depth $L_2$	110.8 mm		
Point angle	118 degrees		
Shank	Morse taper		
Coating	uncoated		
Tool material	HSS		
Туре	Ν		
Helix angle	20-30 degrees		
Through-coolant	no		
Colour ring	without		
Type of product	Jobber drill		

# User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	45 m/min	Ν
Steel < 500 N/mm <sup>2</sup>	suitable	40 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	Р
GG(G)	suitable	25 m/min	К
Oil	suitable		
wet maximum	suitable		