# Garant

## GARANT Master Steel solid carbide HPC drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 19,5mm



## Order data

Order number	122475 19,5
GTIN	4067263121176
Item class	11E

### Description

#### Version:

Robust drill design and optimised special point geometry for the best possible chip formation and reliable chip breakage with higher feed rates at the same time. Advanced micro-geometry, convex cutting edge and conical profile grinding to provide additional stability for the main cutting edge. Optimised flute geometry and patented face geometry for reliable chip evacuation in steel materials and cast material. High-performance coating of the latest generation.

Note:

Flute length  $L_c = L_2 + 1.5 \times D_c$ . HB and HE shanks are available at the same price as HA. **HB shank:** order with **No. 122471 / 122476**. **HE shank:** order with **No. 122470 / 122475** and **129100HE**.

### **Technical description**

Feed f in steel < 1100 N/mm <sup>2</sup>	0.43 mm/rev.	
Nominal Ø D <sub>c</sub>	19.5 mm	
Shank Ø D <sub>s</sub>	20 mm	
Flute length L <sub>c</sub>	79 mm	
Standard	DIN 6537 K	
Number of cutting edges Z	2	
recommended maximum drilling depth $L_2$	49.8 mm	

Tolerance nominal Ø	h7	
Overall length L	131 mm	
Series	Master Steel	
Coating	TiAIN	
Tool material	Solid carbide	
Version	4×D	
Point angle	140 degrees	
Shank	DIN 6535 HA with h6	
Through-coolant	yes, with 25 bar	
Machining strategy	HPC	
Semi-Standard	yes	
Colour ring	green	
Type of product	Mono jobber drills	

## User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	170 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	155 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	145 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	130 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	110 m/min	Р
Steel < 55 HRC	suitable	60 m/min	Н
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	55 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	45 m/min	М
GG	suitable	130 m/min	К
GGG	suitable	90 m/min	К
Uni	suitable		

# Data sheet

wet maximum	suitable	
wet minimum	suitable	
Air	suitable	