

# GARANT Master Steel solid carbide HPC drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 16,5mm



#### Order data

Order number	122475 16,5
GTIN	4067263121114
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**

Overall length L	123 mm
Number of cutting edges Z	2
Shank Ø D <sub>s</sub>	18 mm
Tolerance nominal Ø	h7
recommended maximum drilling depth $L_2$	48.3 mm
Standard	DIN 6537 K
Nominal Ø D <sub>c</sub>	16.5 mm

Flute length L <sub>c</sub>	73 mm	
Feed f in steel < 1100 N/mm <sup>2</sup>	0.41 mm/rev.	
Series	Master Steel	
Coating	TiAlN	
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	<b>V</b> <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	130 m/min P	
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	K	
GGG	suitable	90 m/min	K	
Uni	suitable			

wet maximum	suitable	
wet minimum	suitable	
Air	suitable	