

# GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TiAIN, Ø DC h7: 13mm



### **Order data**

Order number	123026 13		
GTIN	4045197846952		
Item class	11E		

## **Description**

#### **Version:**

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low installed power** and high speeds.

- · Clear reduction in cutting forces due to special cutter geometry.
- · Coating for best wear resistance even at high process temperatures.
- · Polished flutes for good chip clearance.

A slim chisel point and the special arrangement of the 4 guide chamfers ensure high positioning and alignment accuracy. Optimised micro-geometry for increased working life and performance capability.

#### Note:

Flute length  $L_c = L_2 + 1.5 \times D_c$ .

## **Technical description**

Overall length L	178 mm		
Feed f in steel < 1100 N/mm <sup>2</sup>	0.23 mm/rev.		
recommended maximum drilling depth $L_2$	113.5 mm		
Tolerance nominal Ø	h7		
Shank Ø D <sub>s</sub>	14 mm		
Nominal Ø D <sub>c</sub>	13 mm		
Number of cutting edges Z	2		
Standard	Manufacturer's standard		

Flute length L <sub>c</sub>	133 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
Version	8×D		
Point angle	135 degrees		
Shank	DIN 6535 HB to h6		
Through-coolant	yes, to 25 bar		
Machining strategy	HPC		
Semi-Standard	yes		
Colour ring	green		
Type of product	Jobber drill		

# **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	195 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	150 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	135 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	125 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	80 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	65 m/min	М
GG	suitable	120 m/min	K
GGG	suitable	115 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		