

# GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TiAIN, Ø DC h7: 16mm



### **Order data**

Order number	122416 16		
GTIN	4045197791078		
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**

Number of cutting edges Z	2		
Overall length L	115 mm		
Nominal Ø D <sub>c</sub>	16 mm		
Flute length L <sub>c</sub>	65 mm		
Shank Ø D₅	16 mm		
Feed f in steel < 1100 N/mm <sup>2</sup>	0.34 mm/rev.		
Tolerance nominal Ø	h7		
Shank tolerance	h6		



Standard	DIN 6537 K	
recommended maximum drilling depth $L_2$	41 mm	
Series	Master Steel	
Coating	TiAIN	
Tool material	solid carbide	
Version	4×D	
Point angle	135 degrees	
Shank	DIN 6535 HB to h6	
Through-coolant	no	
Machining strategy	HPC	
Semi-Standard	yes	
Colour ring	green	
Type of product	Jobber drill	

# **User data**

	Suitability	$\mathbf{V}_{c}$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	170 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	150 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	120 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	110 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	60 m/min	Р
GG	suitable	110 m/min	K
GGG	suitable	100 m/min	K
Uni	suitable		
wet maximum	suitable		