

# GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 13,8mm



#### **Order data**

Order number	122415 13,8		
GTIN	4045197784780		
Item class	11E		

### **Description**

#### **Version:**

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low power output** 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 edge 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  $L_c = L_2 + 1.5 \times D_c$ .

Form HB and HE supplied at the same price as HA.

Form **HB:** order with **No. 122416**.

Form **HE**: order with **No. 122415** + **129100HE**.

### **Technical description**

Tolerance nominal Ø	h7		
Nominal Ø D <sub>c</sub>	13.8 mm		
Number of cutting edges Z	2		
Feed f in steel < 1100 N/mm <sup>2</sup>	0.31 mm/rev.		
Standard	DIN 6537 K		
Flute length L <sub>c</sub>	60 mm		

Shank Ø D <sub>s</sub>	14 mm		
Shank tolerance	h6		
Overall length L	107 mm		
recommended maximum drilling depth L <sub>2</sub>	39.3 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	solid carbide		
Version	4×D		
Point angle	135 degrees		
Shank	DIN 6535 HA 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		

# Services

## Data sheet

# **⚠** Hoffmann Group

Shank grinding Type HE

129100 HE