

# GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 4,5mm



### **Order data**

Order number	123225 4,5
GTIN	4045197844941
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  $L_c = L_2 + 1.5 \times D_c$ .

For process reliability when using the 12×D drill, an initial centre drilling with NC spotting drills No. 121068 – 121130 is necessary.

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

Order form HB: with No. 123226.

Order form **HE:** with **No. 123225 + 129100HE**.

## **Technical description**

Standard	Manufacturer's standard
recommended maximum drilling depth L <sub>2</sub>	57.3 mm
Tolerance nominal Ø	h7
Shank Ø D <sub>s</sub>	6 mm
Flute length L <sub>c</sub>	64 mm

Number of cutting edges Z	2	
Overall length L	102 mm	
Nominal Ø D <sub>c</sub>	4.5 mm	
Feed f in steel < 1100 N/mm <sup>2</sup>	0.1 mm/rev.	
Series	Master Steel	
Coating	TiAIN	
Tool material	Solid carbide	
Version	12×D	
Point angle	135 degrees	
Shank	DIN 6535 HA 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	160 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	125 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	115 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	105 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	65 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	55 m/min	М
GG	suitable	100 m/min	K
GGG	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		

wet minimum Services	suitable	
Services		
Shank grinding Type HE		129100 HE