

# GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 3mm



### **Order data**

Order number	123225 3
GTIN	4045197838827
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**.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7 Number of cutting edges Z: 2 Tolerance nominal Ø: h7

recommended maximum drilling depth L<sub>2</sub>: 49.5 mm

Overall length L: 92 mm Shank Ø D<sub>s</sub>: 6 mm

Feed f in steel < 1100 N/mm<sup>2</sup>: 0.09 mm/rev.

## **Technical description**

Shank Ø D₅	6 mm		
Overall length L	92 mm		
Standard	Manufacturer's standard		
Tolerance nominal Ø	h7		
Nominal Ø D <sub>c</sub>	3 mm		
recommended maximum drilling depth L <sub>2</sub>	49.5 mm		
Flute length L <sub>c</sub>	54 mm		
Number of cutting edges Z	2		
Feed f in steel < 1100 N/mm <sup>2</sup>	0.09 mm/rev.		
Series	Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
Version	12×D		
Point angle	135°		
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	M
GG	suitable	100 m/min	K
GGG	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum Services	<del>suitable</del>		

Shank grinding Type HE	129100 HE
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