# Garant

# GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 20mm



## Order data

Order number	122425 20
GTIN	4045197786456
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  $L_c = L_2 + 1.5 \times D_c$ . Versions HB and HE supplied at the same price as HA. Form **HB:** state **No.122426** on the order. Form **HE:** order with **No.122425 + 129100HE**.

## **Technical description**

Feed f in steel < 1100 N/mm <sup>2</sup>	0.38 mm/rev.	
Flute length L <sub>c</sub>	79 mm	
Overall length L	131 mm	
Tolerance nominal Ø	h7	
Nominal Ø D <sub>c</sub>	20 mm	
Shank Ø D <sub>s</sub>	20 mm	

# Data sheet

Shank tolerance	h6	
Number of cutting edges Z	2	
Standard	DIN 6537 K	
recommended maximum drilling depth $L_2$	49 mm	
Series	Master Steel	
Coating	TiAIN	
Tool material	solid carbide	
Version	4×D	
Point angle	135 degrees	
Shank	DIN 6535 HA to h6	
Through-coolant	yes, with 25 bar	
Machining strategy	HPC	
Semi-Standard	yes	
Colour ring	green	
Type of product	Jobber drill	

## User data

	Suitability	Vc	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	220 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	200 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	180 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	170 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	90 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	75 m/min	М
GG	suitable	160 m/min	К
GGG	suitable	130 m/min	К
Uni	suitable		
wet maximum	suitable		

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wet minimum Services	suitable	
Shank grinding Type HE		129100 HE