

## Garant

### GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7: 16,5mm



## Order data

Order number	123025 16,5
GTIN	4045197844651
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  $L_c = L_2 + 1.5 \times D_c$ .

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

Form **HB**: order with **No. 123026**.

Form **HE**: order with **No. 123025 + 129100HE**.

## Technical description

Standard	Manufacturer's standard
Flute length $L_c$	171 mm
Overall length L	222 mm
Feed f in steel < 1100 N/mm <sup>2</sup>	0.29 mm/rev.
Number of cutting edges Z	2
Shank Ø $D_s$	18 mm

Tolerance nominal $\varnothing$	h7
recommended maximum drilling depth $L_2$	146.3 mm
Nominal $\varnothing D_c$	16.5 mm
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Version	8xD
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	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	195 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	150 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	135 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	125 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	80 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	65 m/min	M
GG	suitable	120 m/min	K
G GG	suitable	115 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		

## Services

Shank grinding Type HE

129100 HE