

## Garant

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



## Order data

Order number	123025 13
GTIN	4045197844514
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.

### Recommendation:

#### Maximum drilling depth:

flute length (see table) less 1.5×nominal Ø.

#### 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**.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth  $L_2$ : 113.5 mm

Overall length L: 178 mm

Shank Ø  $D_s$ : 14 mm

Feed  $f$  in steel < 1100 N/mm<sup>2</sup>: 0.23 mm/rev.

## Technical description

Overall length L	178 mm
recommended maximum drilling depth L <sub>2</sub>	113.5 mm
Shank Ø D <sub>s</sub>	14 mm
Number of cutting edges Z	2
Feed f in steel < 1100 N/mm <sup>2</sup>	0.23 mm/rev.
Tolerance nominal Ø	h7
Standard	Manufacturer's standard
Nominal Ø D <sub>c</sub>	13 mm
Flute length L <sub>c</sub>	133 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Drill depth up to	8×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

## Services

Shank grinding Type HE	129100 HE
------------------------	-----------