

**Garant**
**GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7: 13,5 mm**

**Order data**

Order number	122415 13,5
GTIN	4045197784773
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.

**Recommendation:**
**Maximum drilling depth:**

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

**Note:**

Flute length  $L_c = L_2 + 1.5 \times D_c$ .

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

Form **HB**: order with **No. 122416**.

Form **HE**: order with **No. 122415 + 129100HE**.

Standard: DIN 6537 K

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth  $L_2$ : 39.8 mm

Overall length L: 107 mm

Shank Ø  $D_s$ : 14 mm

Feed  $f$  in steel < 1100 N/mm<sup>2</sup>: 0.31 mm/rev.

## Technical description

Standard	DIN 6537 K
Nominal $\varnothing D_c$	13.5 mm
Shank tolerance	h6
Number of cutting edges Z	2
Feed f in steel < 1100 N/mm <sup>2</sup>	0.31 mm/rev.
Flute length L <sub>c</sub>	60 mm
Shank $\varnothing D_s$	14 mm
Tolerance nominal $\varnothing$	h7
Overall length L	107 mm
recommended maximum drilling depth L <sub>2</sub>	39.8 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	solid carbide
Drill depth up to	4xD
Point angle	135 degrees
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Semi-Standard	yes
Colour ring	green
Type of product	Jobber drill

## Services

Shank grinding Type HE	129100 HE
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