

Garant

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



Order data

Order number	123225 13,5
GTIN	4045197845757
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 $L_c = L_2 + 1.5 \times D_c$.

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_2 : 161.8 mm

Overall length L: 230 mm

Shank Ø D_s : 14 mm

Feed f in steel < 1100 N/mm²: 0.23 mm/rev.

Technical description

Overall length L	230 mm
Shank $\varnothing D_s$	14 mm
Feed f in steel < 1100 N/mm ²	0.23 mm/rev.
Flute length L _c	182 mm
Number of cutting edges Z	2
Nominal $\varnothing D_c$	13.5 mm
recommended maximum drilling depth L ₂	161.8 mm
Standard	Manufacturer's standard
Tolerance nominal \varnothing	h7
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Drill depth up to	12xD
Point angle	135 degrees
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

Services

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