

Garant

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



Order data

Order number	123235 13,5
GTIN	4045197841070
Item class	11E

Description

Version:

3-flute drill, specially developed for **use at very high feed rates**. Outstandingly suitable for **machines with high installed power** and stable operating conditions.

- **Special cutter geometry with stable cutting edges and large clearance at the centre enables very high feed rates.**
- **The patented tip is optimised for chip flow and generates low cutting pressure with good chip breakage.**

The **sector-leading technology of the drill point** guarantees **optimum self-centring behaviour**. 3 guide chamfers guarantee a stable exit from the hole and an exact roundness of the hole.

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 an NC spotting drill No. 121130 with **155° point angle** is necessary.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 3

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: 0.56 mm/rev.

Technical description

Nominal $\varnothing D_c$	13.5 mm
recommended maximum drilling depth L_2	161.8 mm
Shank $\varnothing D_s$	14 mm
Flute length L_c	182 mm
Feed f in steel < 1100 N/mm ²	0.56 mm/rev.
Tolerance nominal \varnothing	h7
Number of cutting edges Z	3
Standard	Manufacturer's standard
Overall length L	230 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Drill depth up to	12×D
Point angle	140 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
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