

# GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7 (mm or inch): 10,5 mm or inch



#### **Order data**

Order number	123035 10,5
GTIN	4045197839749
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  $1.5 \times \text{nominal } \emptyset$ .

#### 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. 123036.

Form **HE**: order with **No. 123035 + 129100HE**.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7 Number of cutting edges Z: 3 Tolerance nominal Ø: h7

recommended maximum drilling depth L<sub>2</sub>: 98.3 mm

Overall length L: 162 mm Shank Ø D<sub>s</sub>: 12 mm

Feed f in steel < 1100 N/mm<sup>2</sup>: 0.5 mm/rev.

## **Technical description**

Flute length L <sub>c</sub> 114 mm  Nominal Ø D <sub>c</sub> 10.5 mm  Feed f in steel < 1100 N/mm² 0.5 mm/rev.  Overall length L 162 mm  Tolerance nominal Ø h7  Number of cutting edges Z 3  Standard Manufacturer's standard recommended maximum drilling depth L₂ 98.3 mm  Shank Ø D <sub>s</sub> 12 mm  Series GARANT Master Steel  Coating TiAIN  Tool material Solid carbide  Drill depth up to 8×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		
Feed f in steel < 1100 N/mm²  Overall length L  Tolerance nominal Ø  Number of cutting edges Z  Standard  Manufacturer's standard  recommended maximum drilling depth L₂  Shank Ø D₄  Series  GARANT Master Steel  Coating  TiAIN  Tool material  Drill depth up to  Point angle  Shank  DIN 6535 HA to h6  Through-coolant  Machining strategy  Colour ring  O.5 mm/rev.  162 mm  A7  A7  A8  B7  B7  B7  B7  B7  B7  B7  B7  B7  B	Flute length L <sub>c</sub>	114 mm
Overall length L  Tolerance nominal Ø  Number of cutting edges Z  Standard  Manufacturer's standard  recommended maximum drilling depth L <sub>2</sub> 98.3 mm  Shank Ø D <sub>s</sub> 12 mm  Series  GARANT Master Steel  Coating  TiAIN  Tool material  Solid carbide  Drill depth up to  8×D  Point angle  Shank  DIN 6535 HA to h6  Through-coolant  Machining strategy  HPC  Semi-Standard  yes  Colour ring  green	Nominal Ø D <sub>c</sub>	10.5 mm
Tolerance nominal Ø h7  Number of cutting edges Z 3  Standard Manufacturer's standard recommended maximum drilling depth L₂ 98.3 mm  Shank Ø D₃ 12 mm  Series GARANT Master Steel  Coating TiAlN  Tool material Solid carbide  Drill depth up to 8×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	Feed f in steel < 1100 N/mm <sup>2</sup>	0.5 mm/rev.
Number of cutting edges Z  Standard  Manufacturer's standard  recommended maximum drilling depth L₂  98.3 mm  Shank Ø D₃  12 mm  Series  GARANT Master Steel  Coating  TiAIN  Tool material  Solid carbide  Drill depth up to  8×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	Overall length L	162 mm
Standard       Manufacturer's standard         recommended maximum drilling depth L₂       98.3 mm         Shank Ø D₃       12 mm         Series       GARANT Master Steel         Coating       TiAIN         Tool material       Solid carbide         Drill depth up to       8×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	Tolerance nominal Ø	h7
recommended maximum drilling depth $L_2$ 98.3 mm  Shank $\oslash$ $D_s$ 12 mm  Series GARANT Master Steel  Coating TiAIN  Tool material Solid carbide  Drill depth up to 8×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	Number of cutting edges Z	3
Shank Ø D₅12 mmSeriesGARANT Master SteelCoatingTiAINTool materialSolid carbideDrill depth up to8×DPoint angle140 degreesShankDIN 6535 HA to h6Through-coolantyes, to 25 barMachining strategyHPCSemi-StandardyesColour ringgreen	Standard	Manufacturer's standard
Series GARANT Master Steel  Coating TiAIN  Tool material Solid carbide  Drill depth up to 8×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	recommended maximum drilling depth L <sub>2</sub>	98.3 mm
CoatingTiAINTool materialSolid carbideDrill depth up to8×DPoint angle140 degreesShankDIN 6535 HA to h6Through-coolantyes, to 25 barMachining strategyHPCSemi-StandardyesColour ringgreen	Shank Ø D <sub>s</sub>	12 mm
Tool material  Drill depth up to  8×D  Point angle  140 degrees  Shank  DIN 6535 HA to h6  Through-coolant  Machining strategy  HPC  Semi-Standard  Colour ring  Solid carbide  8×D  140 degrees  140 degrees  HPC  yes, to 25 bar  HPC  yes	Series	GARANT Master Steel
Drill depth up to 8×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	Coating	TiAIN
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	Tool material	Solid carbide
Shank  DIN 6535 HA to h6  Through-coolant  Machining strategy  HPC  Semi-Standard  yes  Colour ring  green	Drill depth up to	8×D
Through-coolant yes, to 25 bar  Machining strategy HPC  Semi-Standard yes  Colour ring green	Point angle	140 degrees
Machining strategy HPC Semi-Standard yes Colour ring green	Shank	DIN 6535 HA to h6
Semi-Standard yes Colour ring green	Through-coolant	yes, to 25 bar
Colour ring green	Machining strategy	HPC
-	Semi-Standard	yes
Type of product Jobber drill	Colour ring	green
	Type of product	Jobber drill

### **Services**

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