

# GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7 (mm or inch): 18,5



#### **Order data**

Order number	122435 18,5
GTIN	4045197787514
Item class	11E

### **Description**

#### **Version:**

**3-flute drill**, specially developed for **use at very high feed rates**. Extremely suitable for **machines with high power** output and stable machining conditions.

- Special point geometry with stable cutting edges and large clearance at the centre permits very high feed rates.
- The patented point geometry is optimised for chip flow and generates low cutting forces with good chip breakage.
- $\cdot\,$  With 145° point angle for low burr formation when drilling through holes.

The sector-leading technology of the chisel point guarantees optimum self-centring behaviour and permits spot drilling on irregular surfaces. 3 guide chamfers guarantee a stable exit from the hole and an exact roundness of the hole.

#### Note:

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

HB and HE shanks are available at the same price as HA.<br/>
Strain HB shanks: use order No.

**122436**.<br/>br>For **HE shanks:** use order **No. 122435 + 129100HE**.

Standard: DIN 6537 K Tolerance nominal Ø: h7 Number of cutting edges Z: 3 Tolerance nominal Ø: h7

recommended maximum drilling depth L<sub>2</sub>: 51.3 mm

Overall length L: 131 mm Shank Ø D<sub>s</sub>: 20 mm

Feed f in steel < 1100 N/mm<sup>2</sup>: 0.69 mm/rev.

## **Technical description**



Number of cutting edges Z	3		
Feed f in steel < 1100 N/mm <sup>2</sup>	0.69 mm/rev.		
Shank Ø D <sub>s</sub>	20 mm		
Overall length L	131 mm		
Standard	DIN 6537 K		
Nominal Ø D <sub>c</sub>	18.5 mm		
Flute length L <sub>c</sub>	79 mm		
Tolerance nominal Ø	h7		
recommended maximum drilling depth L <sub>2</sub>	51.3 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	solid carbide		
Version	4×D		
Point angle	145°		
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		

## **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	160 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	140 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	130 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	110 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 55 HRC	suitable	60 m/min	Н



INOX < 900 N/mm <sup>2</sup>	suitable	60 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	50 m/min	М
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	40 m/min	S
GG	suitable	130 m/min	K
GGG	suitable	80 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum Services	<del>suitable</del>		

Shank grinding Type HE 129100 HE