## Garant

# GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 9,7mm

versi 2333300

### Order data

Order number	123235 9,7
GTIN	4045197840783
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.

#### 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.

#### **Technical description**

Overall length L	162 mm	
recommended maximum drilling depth $L_2$	105.5 mm	
Tolerance nominal Ø	h7	
Number of cutting edges Z	3	
Standard	Manufacturer's standard	
Feed f in steel < 1100 N/mm <sup>2</sup>	0.44 mm/rev.	

10 mm	
120 mm	
9.7 mm	
Master Steel	
TiAIN	
Solid carbide	
12×D	
140 degrees	
DIN 6535 HA to h6	
yes, to 25 bar	
HPC	
yes	
green	
Jobber drill	

# User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	120 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	110 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	100 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	70 m/min	Р
Steel < 55 HRC	suitable	60 m/min	н
INOX < 900 N/mm <sup>2</sup>	suitable	55 m/min	Μ
INOX > 900 N/mm <sup>2</sup>	suitable	50 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	40 m/min	S
GG	suitable	120 m/min	К
GGG	suitable	80 m/min	К

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Uni	suitable	
wet maximum	suitable	
<del>wet minimum</del> Services	suitable	

Shank grinding Type HE

129100 HE