

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 4mm



Order data

Order number	123235 4
GTIN	4045197838483
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.

Standard: Manufacturer's standard

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

recommended maximum drilling depth L₂: 58 mm

Overall length L: 102 mm

Shank Ø D_s: 6 mm

Feed f in steel < 1100 N/mm²: 0.28 mm/rev.

Technical description

recommended maximum drilling depth L ₂	58 mm
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Tolerance nominal Ø	h7		
Nominal Ø D _c	4 mm		
Standard	Manufacturer's standard		
Number of cutting edges Z	3		
Shank Ø D _s	6 mm		
Feed f in steel < 1100 N/mm ²	0.28 mm/rev.		
Overall length L	102 mm		
Flute length L _c	64 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
Version	12×D		
Point angle	140°		
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		

User data

	Suitability	V _c	ISO code
Steel < 500 N/mm ²	suitable	120 m/min	Р
Steel < 750 N/mm ²	suitable	110 m/min	Р
Steel < 900 N/mm ²	suitable	100 m/min	Р
Steel < 1100 N/mm ²	suitable	90 m/min	Р
Steel < 1400 N/mm ²	suitable	70 m/min	Р
Steel < 55 HRC	suitable	60 m/min	Н
INOX < 900 N/mm ²	suitable	55 m/min	М

$INOX > 900 \text{ N/mm}^2$	suitable	50 m/min	М
Ti > 850 N/mm ²	suitable only under restricted conditions	40 m/min	S
GG	suitable	120 m/min	K
GGG	suitable	80 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum Services	suitable		

Shank grinding Type HE

129100 HE