

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 18,8mm



Order data Order number 123235 18,8 GTIN 4045197841285 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

Nominal Ø D _C	18.8 mm	
Standard	Manufacturer's standard	
Tolerance nominal Ø	h7	
Feed f in steel < 1100 N/mm ²	0.69 mm/rev.	
recommended maximum drilling depth L ₂	229.8 mm	
Number of cutting edges Z	3	

Overall length L	310 mm	
Flute length L _c	258 mm	
Shank Ø D _s	20 mm	
Series	Master Steel	
Coating	TiAlN	
Tool material	Solid carbide	
Version	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	

User data

Suitability	V _c	ISO code
suitable	120 m/min	Р
suitable	110 m/min	Р
suitable	100 m/min	Р
suitable	90 m/min	Р
suitable	70 m/min	Р
suitable	60 m/min	Н
suitable	55 m/min	M
suitable	50 m/min	M
suitable only under restricted conditions	40 m/min	S
suitable	120 m/min	K
suitable	80 m/min	K
	suitable	suitable 120 m/min suitable 110 m/min suitable 100 m/min suitable 90 m/min suitable 70 m/min suitable 60 m/min suitable 55 m/min suitable 50 m/min suitable 120 m/min

Uni	suitable	
wet maximum	suitable	
wet minimum Services	suitable	

Shank grinding Type HE 129100 HE