

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



Order data	
Order number	123235 7,7
GTIN	4045197840585
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

Number of cutting edges Z	3	
Overall length L	146 mm	
Flute length L _c	108 mm	
recommended maximum drilling depth L_2	96.5 mm	
Standard	Manufacturer's standard	
Feed f in steel < 1100 N/mm ²	0.37 mm/rev.	

Nominal Ø D _c	7.7 mm		
Tolerance nominal Ø	h7		
Shank Ø D _s	8 mm		
Series	Master Steel		
Coating	TiAIN		
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