Garant

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 16,5mm

versi 2333300

Order data

Order number	123235 16,5
GTIN	4045197841193
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

Flute length L _c	234 mm
Number of cutting edges Z	3
Shank Ø D _s	18 mm
Nominal Ø D _c	16.5 mm
lerance nominal Ø h7	
Overall length L	285 mm

Standard	Manufacturer's standard	
recommended maximum drilling depth L_2	209.3 mm	
Feed f in steel < 1100 N/mm ²	0.66 mm/rev.	
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	Vc	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 N/mm ²	suitable	50 m/min	Μ
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	
wet minimum Services	suitable	

Shank grinding Type HE

129100 HE