Garant

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TIAIN, Ø DC h7 (mm or inch): 19



Order data

Order number	122435 19
GTIN	4045197787538
Item class	11E

Description

Version:

3-flute drill, specially developed for **use at very high feed rates**. Extremely suitable for **machines with high power** output and stable machining conditions.

- Special point geometry with stable cutting edges and large clearance at the centre permits very high feed rates.
- The patented point geometry is optimised for chip flow and generates low cutting forces with good chip breakage.
- With 145° point angle for low burr formation when drilling through holes.

The **sector-leading technology of the chisel point** guarantees **optimum self-centring behaviour** and permits spot drilling on irregular surfaces. 3 guide chamfers guarantee a stable exit from the hole and an exact roundness of the hole.

Note:

Flute length $L_c = L_2 + 1.5 \times D_c$.

HB and HE shanks are available at the same price as HA.
For **HB shanks:** use order **No. 122436**.
For **HE shanks:** use order **No. 122435** + **129100HE**.

Standard: DIN 6537 K

Tolerance nominal Ø: h7

Number of cutting edges Z: 3

Tolerance nominal Ø: h7

recommended maximum drilling depth L2: 50.5 mm

Overall length L: 131 mm

Shank Ø D_s: 20 mm

Feed f in steel < 1100 N/mm²: 0.69 mm/rev.

Technical description

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Data sheet

Flute length L_c	79 mm		
Overall length L	131 mm		
Nominal Ø D_c	19 mm		
Tolerance nominal Ø	h7		
Shank Ø D _s	20 mm		
Standard	DIN 6537 K		
Feed f in steel < 1100 N/mm ²	0.69 mm/rev.		
Number of cutting edges Z	3		
recommended maximum drilling depth L_2	50.5 mm		
Series	Master Steel		
Coating	TiAIN		
Tool material	solid carbide		
Version	4×D		
Point angle	145 °		
Shank	DIN 6535 HA to h6		
Through-coolant	yes, with 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	160 m/min	Р
Steel < 750 N/mm ²	suitable	140 m/min	Р
Steel < 900 N/mm ²	suitable	130 m/min	Р
Steel < 1100 N/mm ²	suitable	110 m/min	Р
Steel < 1400 N/mm ²	suitable	90 m/min	Р
Steel < 55 HRC	suitable	60 m/min	Н

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INOX < 900 N/mm ²	suitable	60 m/min	М
INOX > 900 N/mm ²	suitable	50 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	40 m/min	S
GG	suitable	130 m/min	К
GGG	suitable	80 m/min	К
Uni	suitable		
wet maximum	suitable		
wet minimum Services	suitable		

Shank grinding Type HE

129100 HE