Garant

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TIAIN, Ø DC h7 (mm or inch): 11



Order data

Order number	122435 11
GTIN	4045197787156
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: 38.5 mm

Overall length L: 102 mm

Shank Ø D_s: 12 mm

Feed f in steel < 1100 N/mm²: 0.5 mm/rev.

Technical description

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Data sheet

Shank Ø D _s Nominal Ø D _c Feed f in steel < 1100 N/mm ²	12 mm 11 mm 0.5 mm/rev.	
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Each fin stark $(1100 \text{ N}/mm^2)$	0.5 mm/rev.	
reed f in steel < 1100 N/mm		
Number of cutting edges Z	3	
Overall length L	102 mm	
Tolerance nominal Ø	h7	
Standard	DIN 6537 K	
recommended maximum drilling depth L ₂	38.5 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