Garant

GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TIAIN, Ø DC h7: 16,5 mm

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Order data

Order number	123226 16,5
GTIN	4045197848314
Item class	11E

Description

Version:

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low installed power** and high speeds.

- $\cdot\,$ Clear reduction in cutting forces due to special cutter geometry.
- · Coating for best wear resistance even at high process temperatures.
- · Polished flutes for good chip clearance.
- A slim chisel point and the special arrangement of the 4 guide chamfers ensure high positioning and alignment accuracy. Optimised micro-geometry for increased working life and performance capability.

Recommendation:

Maximum drilling depth:

Flute length (see table) less $1.5 \times nominal \emptyset$.

Note:

- Flute length $L_c = L_2 + 1.5 \times D_c$.
- For process reliability when using the 12×D deep-hole drill, an initial centre drilling with No.
- 121068 121130 or 3×D pilot drilling operation with No. 122736 is necessary.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth L₂: 209.3 mm

Overall length L: 285 mm

Shank Ø D_s: 18 mm

Feed f in steel $< 1100 \text{ N/mm}^2$: 0.29 mm/rev.

Technical description

Standard	Manufacturer's standard		
Feed f in steel < 1100 N/mm ²	0.29 mm/rev.		
Nominal Ø D _c	16.5 mm		
Shank Ø D _s	18 mm		
Overall length L	285 mm		
Flute length L _c	234 mm		
recommended maximum drilling depth L_2	209.3 mm		
Number of cutting edges Z	2		
Tolerance nominal Ø	h7		
Series	GARANT Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
	12×D		
Point angle	135 °		
Shank	DIN 6535 HB to h6		
Through-coolant	yes, to 25 bar		
Machining strategy	HPC		
Pilot drill required	yes, pilot drill		
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	125 m/min	Р
Steel < 900 N/mm ²	suitable	115 m/min	Р
Steel < 1100 N/mm ²	suitable	105 m/min	Р
Steel < 1400 N/mm ²	suitable	65 m/min	Р

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Data sheet

INOX < 900 N/mm ²	suitable only under restricted conditions	55 m/min	М
GG	suitable	100 m/min	К
GGG	suitable	95 m/min	К
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		