Garant

GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TIAIN, Ø DC h7: 13,5mm

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Order data

Order number	123225 13,5
GTIN	4045197845757
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.

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 NC spotting drills No. 121068 – 121130 is necessary.

Form HB and HE are supplied at the same price as HA.

Order form HB: with No. 123226.

Order form **HE:** with **No. 123225 + 129100HE**.

Technical description

Overall length L	230 mm	
Shank Ø D _s	14 mm	
Feed f in steel < 1100 N/mm ²	0.23 mm/rev.	
Flute length L_c	182 mm	
Number of cutting edges Z	2	

Nominal $Ø D_c$	13.5 mm	
recommended maximum drilling depth L_2	161.8 mm	
Standard	Manufacturer's standard	
Tolerance nominal Ø	h7	
eries Master Steel		
Coating	TiAIN	
Tool material	Solid carbide	
Version	12×D	
Point angle	135 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
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
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		

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wet minimum Services	suitable	
Services		
Shank grinding Type HE		129100 HE