

GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 4,5mm



Order data

Order number	122415 4,5		
GTIN	4045197783967		
Item class	11E		

Description

Version:

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

- · 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 edge 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 $L_c = L_2 + 1.5 \times D_c$.

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

Form **HB:** order with **No. 122416**.

Form **HE**: order with **No. 122415** + **129100HE**.

Technical description

Feed f in steel < 1100 N/mm ²	0.16 mm/rev.		
Overall length L	66 mm		
Tolerance nominal Ø	h7		
Flute length L _c	24 mm		
Number of cutting edges Z	2		
Standard	DIN 6537 K		

Nominal Ø D _c	4.5 mm		
Shank Ø D _s	6 mm		
Shank tolerance	h6		
recommended maximum drilling depth L_2	17.3 mm		
Series	Master Steel		
Coating	TiAIN		
Tool material	solid carbide		
Version	4×D		
Point angle	135 degrees		
Shank	DIN 6535 HA to h6		
Through-coolant	no		
Machining strategy	HPC		
Semi-Standard	yes		
Colour ring	green		
Type of product	Jobber drill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	suitable	170 m/min	Р
Steel < 750 N/mm ²	suitable	150 m/min	Р
Steel < 900 N/mm ²	suitable	120 m/min	Р
Steel < 1100 N/mm ²	suitable	110 m/min	Р
Steel < 1400 N/mm ²	suitable only under restricted conditions	60 m/min	Р
GG	suitable	110 m/min	K
GGG	suitable	100 m/min	K
Uni	suitable		
wet maximum	suitable		

Services

Data sheet

⚠ Hoffmann Group

Shank grinding Type HE

129100 HE