

GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 4,6 mm



Order data

Order number	122415 4,6
GTIN	4045197783974
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.

Recommendation:

Maximum drilling depth:

flute length (see table) less $1.5 \times \text{nominal } \emptyset$.

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**.

Standard: DIN 6537 K
Tolerance nominal Ø: h7
Number of cutting edges Z: 2
Tolerance nominal Ø: h7

recommended maximum drilling depth L₂: 17.1 mm

Overall length L: 66 mm Shank Ø D_s: 6 mm

Feed f in steel < 1100 N/mm²: 0.16 mm/rev.

Technical description

Number of cutting edges Z	2		
Overall length L	66 mm		
Nominal Ø D _c	4.6 mm		
Shank Ø D _s	6 mm		
Standard	DIN 6537 K		
Shank tolerance	h6		
Tolerance nominal Ø	h7		
Feed f in steel < 1100 N/mm ²	0.16 mm/rev.		
Flute length L _c	24 mm		
recommended maximum drilling depth L ₂	17.1 mm		
Series	GARANT Master Steel		
Coating	TiAlN		
Tool material	solid carbide		
	4×D		
Point angle	135°		
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 Services	suitable		

Shank grinding Type HE 129100 HE