

Garant

GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TiAlN, Ø DC h7: 4,5mm



Order data

Order number	122416 4,5
GTIN	4045197790163
Item class	11E

Description

Version:

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low installed power** 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 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 $L_c = L_2 + 1.5 \times D_c$.

Technical description

Number of cutting edges Z	2
Standard	DIN 6537 K
Nominal Ø D _c	4.5 mm
Tolerance nominal Ø	h7
Feed f in steel < 1100 N/mm ²	0.16 mm/rev.
Overall length L	66 mm
Shank Ø D _s	6 mm
Shank tolerance	h6

Flute length L_c	24 mm
recommended maximum drilling depth L_2	17.3 mm
Series	Master Steel
Coating	TiAlN
Tool material	solid carbide
Version	4xD
Point angle	135 degrees
Shank	DIN 6535 HB to h6
Through-coolant	no
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	170 m/min	P
Steel < 750 N/mm ²	suitable	150 m/min	P
Steel < 900 N/mm ²	suitable	120 m/min	P
Steel < 1100 N/mm ²	suitable	110 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	60 m/min	P
GG	suitable	110 m/min	K
GGG	suitable	100 m/min	K
Uni	suitable		
wet maximum	suitable		