

GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 19,5 mm



Order data

Order number	123225 19,5	
GTIN	4045197845993	
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.

Recommendation:

Maximum drilling depth:

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

Note:

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**.

Flute length $L_C = L_2 + 1.5 \times D_C$.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7 Number of cutting edges Z: 2 Tolerance nominal Ø: h7

recommended maximum drilling depth L₂: 228.8 mm

Overall length L: 310 mm Shank Ø D_s: 20 mm

Feed f in steel $< 1100 \text{ N/mm}^2$: 0.325 mm/rev.

Technical description

recommended maximum drilling depth L_2	228.8 mm		
Flute length L _c	258 mm		
Shank Ø D _s	20 mm		
Feed f in steel < 1100 N/mm ²	0.325 mm/rev.		
Overall length L	310 mm		
Number of cutting edges Z	2		
Tolerance nominal Ø	h7		
Standard	Manufacturer's standard		
Nominal Ø D _c	19.5 mm		
Series	GARANT Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
	12×D		
Point angle	135°		
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	K
GGG	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum Services	suitable		

Shank grinding Type HE

129100 HE