

GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TiAIN, Ø DC h7: 20mm



Order data

Order number	123226 20		
GTIN	4045197848451		
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 $L_c = L_2 + 1.5 \times D_c$.

For process reliability when using the 12×D deep-hole drill, an initial centre drilling with No. 121068 – 121130 or 3×D pilot drilling operation with No. 122736 is necessary.

Technical description

Tolerance nominal Ø	h7		
Standard	Manufacturer's standard		
Nominal Ø D _c	20 mm		
Overall length L	310 mm		
recommended maximum drilling depth L ₂	228 mm		
Feed f in steel < 1100 N/mm ²	0.325 mm/rev.		
Number of cutting edges Z	2		

Shank Ø D _s	20 mm		
Flute length L _c	258 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
Version	12×D		
Point angle	135 degrees		
Shank	DIN 6535 HB to h6		
Through-coolant	yes, to 25 bar		
Machining strategy	HPC		
Pilot drill required	yes, pilot drill		
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	suitable		

