Garant

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



Order data

Order number	122470 19,5		
GTIN	4067263120452		
Item class	11E		

Description

Version:

Robust drill design and optimised special point geometry for the best possible chip formation and reliable chip breakage with higher feed rates at the same time. Advanced micro-geometry, convex cutting edge and conical profile grinding to provide additional stability for the main cutting edge. Optimised flute geometry and patented face geometry for reliable chip evacuation in steel materials and cast material. High-performance coating of the latest generation.

Note:

Flute length $L_c = L_2 + 1.5 \times D_c$. HB and HE shanks are available at the same price as HA. **HB shank:** order with **No. 122471 / 122476**. **HE shank:** order with **No. 122470 / 122475** and **129100HE**.

Technical description

Feed f in steel < 1100 N/mm ²	0.43 mm/rev.	
Shank Ø D _s	20 mm	
Tolerance nominal Ø	h7	
Flute length L _c	79 mm	
Standard	DIN 6537 K	
Overall length L	131 mm	
Nominal Ø D _c	19.5 mm	

Number of cutting edges Z	2		
recommended maximum drilling depth L_2	49.8 mm		
Series	Master Steel		
Coating	TiAIN		
Tool material	Solid carbide		
Version	4×D		
Point angle	140 degrees		
Shank	DIN 6535 HA to h6		
Through-coolant	no		
Machining strategy	HPC		
Semi-Standard	yes		
Colour ring	green		
Type of product	Mono jobber drills		

User data

	Suitability	V _c	ISO code
Steel < 500 N/mm ²	suitable	115 m/min	Р
Steel < 750 N/mm ²	suitable	105 m/min	Р
Steel < 900 N/mm ²	suitable	100 m/min	Р
Steel < 1100 N/mm²	suitable	70 m/min	Р
Steel < 1400 N/mm ²	suitable	60 m/min	Р
GG	suitable	110 m/min	К
GGG	suitable	75 m/min	К
Uni	suitable		
wet maximum	suitable		
dry	suitable		