

GARANT Master Steel DEEP solid carbide deep hole drill, plain shank DIN 6535 HA 16×D, TiAlN, Ø DC: 4,3mm

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Order data	
Order number	123888 4,3
GTIN	4062406267674
Item class	10E

Description

Version:

Excellent chip evacuation due to the unequal helical pitch of the flutes, guide rings and additional guide chamfers for very high precision when drilling. **Maximum process reliability** due to exactly matching tools within the overall system. Drilling up to the maximum depth without a pilot drill. **Significantly increased tool stability** due to the substantially strengthened core. **Increased metal removal rates** and **outstanding tool lives** lead to an economical highend drilling process.

Note:

For process reliability when using the 16×D deep-hole drill, initial centre drilling with No. 121068 – 121121 or a pilot hole of at least 4×D with pilot drill No. 122736 is necessary. For deep holes greater than $20\times D$, a pilot hole to the maximum drilling depth with pilot drill No. 122736 is absolutely essential. The generation of a pilot hole improves process reliability. **The specified L/D ratio gives the minimum achievable depth of hole with the respective deep-hole drill.** Flute length $L_c = L_2 + 1.5 \times D_c$.

Technical description

Nominal Ø D _c	4.3 mm
Flute length L _c	84 mm
Feed f in steel < 900 N/mm ²	0.11 mm/rev.
Shank Ø D _s	6 mm
Overall length L	126 mm
recommended maximum drilling depth L ₂	77.6 mm



Number of cutting edges Z	edges Z 2	
Standard	Manufacturer's standard	
Tolerance nominal Ø	j6	
Series	Master Steel	
Coating	TiAlN	
Tool material	Solid carbide	
Version	16×D	
Point angle	138 degrees	
Shank	DIN 6535 HA to h6	
Through-coolant	yes, with 40 bar	
Machining strategy HPC		
lot drill required yes, pilot drill		
Colour ring	green	
Type of product Jobber drill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	suitable only under restricted conditions	125 m/min	Р
Steel < 750 N/mm ²	suitable	115 m/min	Р
Steel < 900 N/mm ²	suitable only under restricted conditions	110 m/min	Р
Steel < 1100 N/mm ²	suitable	110 m/min	Р
Steel < 1400 N/mm ²	suitable	90 m/min	Р
INOX < 900 N/mm ²	suitable	65 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	60 m/min	М
Ti > 850 N/mm ²	suitable only under restricted conditions	30 m/min	S

GG(G)	suitable only under restricted conditions	115 m/min	К
Uni	suitable		
wet maximum	suitable only under restricted conditions		
wet minimum	suitable only under restricted conditions		