

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

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Order number	123888 4
GTIN	4062406267650
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 mm	
recommended maximum drilling depth L ₂	70 mm	
Number of cutting edges Z	2	
Tolerance nominal Ø	j6	
Overall length L	118 mm	
Shank Ø D₅	6 mm	



Standard	Manufacturer's standard	
Flute length L _c	76 mm	
Feed f in steel < 900 N/mm ²	0.09 mm/rev.	
Series	Master Steel	
Coating	TiAIN	
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	
Pilot drill required	yes, pilot drill	
Colour ring	green	
Type of product	Jobber drill	

User data

	Suitability	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		