Garant

GARANT Master Steel DEEP solid carbide deep hole drill, plain shank DIN 6535 HA 20×D, TiAIN, Ø DC: 13mm

Order data

Order number	123890 13	
GTIN	4062406268350	
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:

Flute length $L_c = L_2 + 1.5 \times D_c$.

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×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.**

Technical description

recommended maximum drilling depth L_2	272.5 mm		
Overall length L	343 mm		
Number of cutting edges Z	2		
Feed f in steel < 900 N/mm ²	0.24 mm/rev.		
Standard	Manufacturer's standard		
Shank Ø D _s	14 mm		

Flute length L _c	292 mm		
Nominal Ø D _c	13 mm		
Tolerance nominal Ø	јб		
Series	Master Steel		
Coating	TiAIN		
Tool material	Solid carbide		
Version	20×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	120 m/min	Р
Steel < 750 N/mm ²	suitable	110 m/min	Р
Steel < 900 N/mm ²	suitable	105 m/min	Р
Steel < 1100 N/mm²	suitable	105 m/min	Р
Steel < 1400 N/mm ²	suitable	85 m/min	Р
INOX < 900 N/mm ²	suitable	65 m/min	М
INOX > 900 N/mm ²	suitable only under restricted conditions	60 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	25 m/min	S
GG(G)	suitable	110 m/min	К
Uni	suitable		

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suitable

wet minimum

suitable only under restricted conditions