

Garant

GARANT Master Steel DEEP solid carbide deep hole drill, plain shank DIN 6535 HA 16×D, TiAlN, Ø DC: 8,5mm



Order data

Order number	123888 8,5
GTIN	4062406267834
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 high-end 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×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

Shank Ø D _s	10 mm
Standard	Manufacturer's standard
Nominal Ø D _c	8.5 mm
Overall length L	203 mm
Number of cutting edges Z	2
Feed f in steel < 900 N/mm ²	0.19 mm/rev.

recommended maximum drilling depth L_2	144.3 mm
Tolerance nominal \varnothing	j6
Flute length L_c	157 mm
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Version	16xD
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	P
Steel < 750 N/mm ²	suitable	115 m/min	P
Steel < 900 N/mm ²	suitable only under restricted conditions	110 m/min	P
Steel < 1100 N/mm ²	suitable	110 m/min	P
Steel < 1400 N/mm ²	suitable	90 m/min	P
INOX < 900 N/mm ²	suitable	65 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	60 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	30 m/min	S

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