

Garant

GARANT Master Steel DEEP solid carbide deep hole drill, plain shank DIN 6535 HA 25×D, TiAlN, Ø DC j6: 4,2mm



Order data

Order number	123893 4,2
GTIN	4067263123026
Item class	10E

Description

Version:

Excellent chip evacuation due to the unequal helical pitch of the flutes, guide rings and additional flute lands 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:

Flute length $L_c = L_2 + 1.5 \times D_c$. For deep holes greater than $20 \times D$, a pilot hole to the maximum drilling depth with pilot drill No. 123885 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

Nominal $\varnothing D_c$	4.2 mm
Tolerance nominal \varnothing	j6
recommended maximum drilling depth L_2	117.7 mm
Flute length L_c	124 mm
Feed f in steel $< 900 \text{ N/mm}^2$	0.11 mm/rev.
Number of cutting edges Z	2
Overall length L	166 mm
Shank $\varnothing D_s$	6 mm

Standard	Works standard
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Version	25×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	110 m/min	P
Steel < 750 N/mm ²	suitable	100 m/min	P
Steel < 900 N/mm ²	suitable	95 m/min	P
Steel < 1100 N/mm ²	suitable only under restricted conditions	95 m/min	P
Steel < 1400 N/mm ²	suitable	75 m/min	P
INOX < 900 N/mm ²	suitable	60 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	55 m/min	M
GG(G)	suitable	100 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		

