

Garant

GARANT Master Steel DEEP solid carbide deep hole drill, plain shank DIN 6535 HA 30×D, TiAlN, Ø DC j6: 4,5mm



Order data

Order number	123895 4,5
GTIN	4067263123194
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

Overall length L	189 mm
Feed f in steel < 900 N/mm ²	0.11 mm/rev.
Flute length L_c	147.05 mm
Standard	Works standard
recommended maximum drilling depth L_2	140.3 mm
Shank Ø D_s	6 mm
Number of cutting edges Z	2
Tolerance nominal Ø	j6

Nominal $\varnothing D_c$	4.5 mm
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Version	30xD
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	105 m/min	P
Steel < 750 N/mm ²	suitable	95 m/min	P
Steel < 900 N/mm ²	suitable	85 m/min	P
Steel < 1100 N/mm ²	suitable	85 m/min	P
Steel < 1400 N/mm ²	suitable	70 m/min	P
INOX < 900 N/mm ²	suitable	55 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	50 m/min	M
GG(G)	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		

