

Garant

GARANT Master Steel DEEP solid carbide deep hole drill, plain shank DIN 6535 HA 30×D, TiAlN, Ø DC j6: 12mm



Order data

| | |
|--------------|---------------|
| Order number | 123895 12 |
| GTIN | 4062406269128 |
| 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

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|--|--------------|
| recommended maximum drilling depth L_2 | 372 mm |
| Feed f in steel $< 900 \text{ N/mm}^2$ | 0.21 mm/rev. |
| Flute length L_c | 390 mm |
| Overall length L | 439 mm |
| Tolerance nominal \varnothing | j6 |
| Shank $\varnothing D_s$ | 12 mm |
| Number of cutting edges Z | 2 |
| Nominal $\varnothing D_c$ | 12 mm |

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|----------------------|-------------------------|
| Standard | Manufacturer's standard |
| 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 | | |

