

**Garant**

**GARANT Master Steel solid carbide high-performance drill DIN 6535 HB, TiAlN, Ø DC h7: 10,5mm**



## Order data

|              |               |
|--------------|---------------|
| Order number | 123041 10,5   |
| GTIN         | 4069515031141 |
| Item class   | 11E           |

## Description

### Version:

**Robust drill design and optimised special point geometry** for the **best possible chip formation and reliable chip breakage** with **higher feed rates at the same time**. **Advanced micro-geometry, convex cutting edge and conical profile grinding** to provide additional stability for the main cutting edge. **Optimised flute geometry and patented face geometry** for **reliable chip evacuation** in steel materials and cast material. **High-performance coating** of the latest generation.

### Note:

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

## Technical description

|                                            |              |
|--------------------------------------------|--------------|
| Flute length $L_c$                         | 114 mm       |
| Standard                                   | DIN 6535     |
| Nominal Ø $D_c$                            | 10.5 mm      |
| Number of cutting edges $Z$                | 2            |
| Shank Ø $D_s$                              | 12 mm        |
| Tolerance nominal Ø                        | h7           |
| Feed $f$ in steel < 1100 N/mm <sup>2</sup> | 0.27 mm/rev. |
| Overall length $L$                         | 162 mm       |
| recommended maximum drilling depth $L_2$   | 98.3 mm      |

## Data sheet

|                    |                   |
|--------------------|-------------------|
| Series             | Master Steel      |
| Coating            | TiAlN             |
| Tool material      | Solid carbide     |
| Version            | 8×D               |
| Point angle        | 135 degrees       |
| Shank              | DIN 6535 HB to h6 |
| Through-coolant    | Yes, with 25 bar  |
| Machining strategy | HPC               |
| Semi-Standard      | yes               |
| Type of product    | Jobber drill      |

## User data

|                                | Suitability | V <sub>c</sub> | ISO code |
|--------------------------------|-------------|----------------|----------|
| Steel < 500 N/mm <sup>2</sup>  | suitable    | 130 m/min      | P        |
| Steel < 750 N/mm <sup>2</sup>  | suitable    | 120 m/min      | P        |
| Steel < 900 N/mm <sup>2</sup>  | suitable    | 110 m/min      | P        |
| Steel < 1100 N/mm <sup>2</sup> | suitable    | 100 m/min      | P        |
| Steel < 1400 N/mm <sup>2</sup> | suitable    | 80 m/min       | P        |
| GG(G)                          | suitable    | 95 m/min       | K        |
| Uni                            | suitable    |                |          |
| wet maximum                    | suitable    |                |          |
| wet minimum                    | suitable    |                |          |
| Air                            | suitable    |                |          |