

## GARANT Master Steel solid carbide high-performance drill, Weldon shank DIN 6535 HB, TiAlN, Ø DC h7: 5,1 mm



### Order data

|              |               |
|--------------|---------------|
| Order number | 122762 5,1    |
| GTIN         | 4067263123859 |
| 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

|                                          |              |
|------------------------------------------|--------------|
| Standard                                 | DIN 6537     |
| Number of cutting edges Z                | 2            |
| recommended maximum drilling depth $L_2$ | 36.4 mm      |
| Tolerance nominal Ø                      | h7           |
| Flute length $L_c$                       | 44 mm        |
| Overall length L                         | 82 mm        |
| Feed f in steel < 1100 N/mm <sup>2</sup> | 0.18 mm/rev. |
| Shank Ø $D_s$                            | 6 mm         |
| Nominal Ø $D_c$                          | 5.1 mm       |
| Series                                   | Master Steel |

|                    |                   |
|--------------------|-------------------|
| Coating            | TiAlN             |
| Tool material      | Solid carbide     |
| Version            | 6xD               |
| Point angle        | 140 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                                  | 170 m/min      | P        |
| Steel < 750 N/mm <sup>2</sup>  | suitable                                  | 155 m/min      | P        |
| Steel < 900 N/mm <sup>2</sup>  | suitable                                  | 145 m/min      | P        |
| Steel < 1100 N/mm <sup>2</sup> | suitable                                  | 130 m/min      | P        |
| Steel < 1400 N/mm <sup>2</sup> | suitable                                  | 110 m/min      | P        |
| Steel < 55 HRC                 | suitable                                  | 60 m/min       | H        |
| INOX < 900 N/mm <sup>2</sup>   | suitable only under restricted conditions | 55 m/min       | M        |
| INOX > 900 N/mm <sup>2</sup>   | suitable only under restricted conditions | 45 m/min       | M        |
| GG                             | suitable                                  | 130 m/min      | K        |
| GGG                            | suitable                                  | 90 m/min       | K        |
| Uni                            | suitable                                  |                |          |
| wet maximum                    | suitable                                  |                |          |
| wet minimum                    | suitable                                  |                |          |
| Air                            | suitable                                  |                |          |

