

## Garant

**GARANT Master Steel FEED solid carbide drill, Weldon shank DIN 6535 HB, TiAlN, Ø DC h7 (mm or inch): 7,5**



### Order data

|              |               |
|--------------|---------------|
| Order number | 122436 7,5    |
| GTIN         | 4045197792808 |
| Item class   | 11E           |

### Description

#### Version:

**3-flute drill**, specially developed for **use at very high feed rates**. Outstandingly suitable for machines with **high installed power** and stable machining conditions.

- **Special cutter geometry with stable cutting edges and large clearance at the centre enables very high feed rates.**
- **The patented tip is optimised for chip flow and generates low cutting pressure with good chip breakage.**
- **With a 145° point angle for low burrs on emerging from through holes.**

The **sector-leading technology of the chisel point** guarantees **optimum self-centring behaviour** and permits spot drilling on irregular surfaces. 3 guide chamfers guarantee a stable exit from the hole and an exact roundness of the hole.

#### Note:

Flute length  $L_C = L_2 + 1.5 \times D_C$

Standard: DIN 6537 K

Tolerance nominal Ø: h7

Number of cutting edges Z: 3

Tolerance nominal Ø: h7

recommended maximum drilling depth  $L_2$ : 29.8 mm

Overall length L: 79 mm

Shank Ø  $D_s$ : 8 mm

Feed f in steel < 1100 N/mm<sup>2</sup>: 0.37 mm/rev.

### Technical description

|                           |   |
|---------------------------|---|
| Number of cutting edges Z | 3 |
|---------------------------|---|

|  |                   |
|--|-------------------|
| Tolerance nominal $\varnothing$          | h7                |
| Standard                                 | DIN 6537 K        |
| Flute length $L_c$                       | 41 mm             |
| Shank $\varnothing D_s$                  | 8 mm              |
| Nominal $\varnothing D_c$                | 7.5 mm            |
| Overall length L                         | 79 mm             |
| Feed f in steel < 1100 N/mm <sup>2</sup> | 0.37 mm/rev.      |
| recommended maximum drilling depth $L_2$ | 29.8 mm           |
| Series                                   | Master Steel      |
| Coating                                  | TiAlN             |
| Tool material                            | solid carbide     |
| Version                                  | 4xD               |
| Point angle                              | 145 °             |
| Shank                                    | DIN 6535 HB to h6 |
| Through-coolant                          | Yes, with 25 bar  |
| Machining strategy                       | HPC               |
| Semi-Standard                            | yes               |
| Colour ring                              | green             |
| Type of product                          | Jobber drill      |

## User data

|                                | Suitability | $V_c$     | ISO code |
|--------------------------------|-------------|-----------|----------|
| Steel < 500 N/mm <sup>2</sup>  | suitable    | 160 m/min | P        |
| Steel < 750 N/mm <sup>2</sup>  | suitable    | 140 m/min | P        |
| Steel < 900 N/mm <sup>2</sup>  | suitable    | 130 m/min | P        |
| Steel < 1100 N/mm <sup>2</sup> | suitable    | 110 m/min | P        |
| Steel < 1400 N/mm <sup>2</sup> | suitable    | 90 m/min  | P        |
| Steel < 55 HRC                 | suitable    | 60 m/min  | H        |
| INOX < 900 N/mm <sup>2</sup>   | suitable    | 60 m/min  | M        |

|                              |   |           |   |
|------------------------------|---|-----------|---|
| INOX > 900 N/mm <sup>2</sup> | suitable                                  | 50 m/min  | M |
| Ti > 850 N/mm <sup>2</sup>   | suitable only under restricted conditions | 40 m/min  | S |
| GG                           | suitable                                  | 130 m/min | K |
| GGG                          | suitable                                  | 80 m/min  | K |
| Uni                          | suitable                                  |           |   |
| wet maximum                  | suitable                                  |           |   |
| wet minimum                  | suitable                                  |           |   |