

## Garant

**GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TiAlN, Ø DC h7: 3,76-Xmm**



### Order data

|              |               |
|--------------|---------------|
| Order number | 122416 3,76-X |
| GTIN         | 4062406077037 |
| Item class   | 11E           |

### Description

#### Version:

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low installed power** and high speeds.

- **Clear reduction in cutting forces due to special cutter geometry.**
- **Coating for best wear resistance even at high process temperatures.**
- **Polished flutes for good chip clearance.**

A **slim chisel point** and the **special arrangement of the 4 guide chamfers** ensure **high positioning and alignment accuracy**. Optimised micro-geometry for increased working life and performance capability.

#### Note:

Flute length  $L_c = L_2 + 1.5 \times D_c$ . Delivery time: 12 working weeks

Minimum order quantity: 3 pcs

Items made to order for a specific customer:

Cancellation only up to a maximum of 3 working days after receipt of order acknowledgement.

Items cannot be returned. We reserve the right to over-deliver or under-deliver by  $\pm 10\%$  (minimum 1 piece).

### Technical description

|   |              |
|---|--------------|
| Feed f in steel $< 1100 \text{ N/mm}^2$ | 0.12 mm/rev. |
| Overall length L                        | 66 mm        |
| Flute length $L_c$                      | 24 mm        |
| Standard                                | DIN 6537 K   |
| Number of cutting edges Z               | 2            |

|                                 |                   |
|---------------------------------|-------------------|
| Tolerance nominal $\varnothing$ | h7                |
| Shank $\varnothing D_s$         | 6 mm              |
| $\varnothing$ range             | 3.76 - 4.75 mm    |
| Series                          | Master Steel      |
| Coating                         | TiAlN             |
| Tool material                   | solid carbide     |
| Version                         | 4xD               |
| Point angle                     | 135 degrees       |
| Shank                           | DIN 6535 HB to h6 |
| Through-coolant                 | no                |
| 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                                  | 170 m/min | P        |
| Steel < 750 N/mm <sup>2</sup>  | suitable                                  | 150 m/min | P        |
| Steel < 900 N/mm <sup>2</sup>  | suitable                                  | 120 m/min | P        |
| Steel < 1100 N/mm <sup>2</sup> | suitable                                  | 110 m/min | P        |
| Steel < 1400 N/mm <sup>2</sup> | suitable only under restricted conditions | 60 m/min  | P        |
| GG                             | suitable                                  | 110 m/min | K        |
| GGG                            | suitable                                  | 100 m/min | K        |
| Uni                            | suitable                                  |           |          |
| wet maximum                    | suitable                                  |           |          |