

Garant

GARANT Master Steel FEED solid carbide drill, Weldon shank DIN 6535 HB, TiAlN, Ø DC h7 (mm or inch): 9



Order data

| | |
|--------------|---------------|
| Order number | 122436 9 |
| GTIN | 4045197792952 |
| 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 : 33.5 mm

Overall length L: 89 mm

Shank Ø D_s : 10 mm

Feed f in steel < 1100 N/mm²: 0.44 mm/rev.

Technical description

| | |
|--------------------|-------|
| Flute length L_c | 47 mm |
|--------------------|-------|

| | |
|---|-------------------|
| Tolerance nominal \varnothing | h7 |
| Feed f in steel < 1100 N/mm ² | 0.44 mm/rev. |
| Number of cutting edges Z | 3 |
| Standard | DIN 6537 K |
| Shank $\varnothing D_s$ | 10 mm |
| Nominal $\varnothing D_c$ | 9 mm |
| Overall length L | 89 mm |
| recommended maximum drilling depth L ₂ | 33.5 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 ² | suitable | 160 m/min | P |
| Steel < 750 N/mm ² | suitable | 140 m/min | P |
| Steel < 900 N/mm ² | suitable | 130 m/min | P |
| Steel < 1100 N/mm ² | suitable | 110 m/min | P |
| Steel < 1400 N/mm ² | suitable | 90 m/min | P |
| Steel < 55 HRC | suitable | 60 m/min | H |
| INOX < 900 N/mm ² | suitable | 60 m/min | M |

| | | | |
|------------------------------|---|-----------|---|
| INOX > 900 N/mm ² | suitable | 50 m/min | M |
| Ti > 850 N/mm ² | 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 | | |