

Garant

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7 (mm or inch): 15



Order data

| | |
|--------------|---------------|
| Order number | 123035 15 |
| GTIN | 4045197840011 |
| 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 operating 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.**

The **sector-leading technology of the drill point** guarantees **optimum self-centring behaviour**. 3 guide chamfers guarantee a stable exit from the hole and an exact roundness of the hole.

Note:

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

Form HB and HE supplied at the same price as HA.

Form **HB**: order with **No. 123036**.

Form **HE**: order with **No. 123035 + 129100HE**.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 3

Tolerance nominal Ø: h7

recommended maximum drilling depth L_2 : 129.5 mm

Overall length L: 203 mm

Shank Ø D_s : 16 mm

Feed f in steel < 1100 N/mm²: 0.61 mm/rev.

Technical description

| | |
|---|-------------------------|
| Standard | Manufacturer's standard |
| Shank $\varnothing D_s$ | 16 mm |
| recommended maximum drilling depth L_2 | 129.5 mm |
| Overall length L | 203 mm |
| Nominal $\varnothing D_c$ | 15 mm |
| Feed f in steel $< 1100 \text{ N/mm}^2$ | 0.61 mm/rev. |
| Number of cutting edges Z | 3 |
| Flute length L_c | 152 mm |
| Tolerance nominal \varnothing | h7 |
| Series | Master Steel |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Version | 8xD |
| Point angle | 140° |
| Shank | DIN 6535 HA to h6 |
| Through-coolant | yes, to 25 bar |
| Machining strategy | HPC |
| Semi-Standard | yes |
| Colour ring | green |
| Type of product | Jobber drill |

User data

| | Suitability | V_c | ISO code |
|-------------------------------|-------------|-----------|----------|
| Steel $< 500 \text{ N/mm}^2$ | suitable | 120 m/min | P |
| Steel $< 750 \text{ N/mm}^2$ | suitable | 110 m/min | P |
| Steel $< 900 \text{ N/mm}^2$ | suitable | 100 m/min | P |
| Steel $< 1100 \text{ N/mm}^2$ | suitable | 90 m/min | P |
| Steel $< 1400 \text{ N/mm}^2$ | suitable | 70 m/min | P |
| Steel $< 55 \text{ HRC}$ | suitable | 60 m/min | H |

| | | | |
|------------------------------|---|-----------|---|
| INOX < 900 N/mm ² | suitable | 55 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 | 120 m/min | K |
| GGG | suitable | 80 m/min | K |
| Uni | suitable | | |
| wet maximum | suitable | | |
| wet minimum | suitable | | |

Services

Shank grinding Type HE

129100 HE