

Garant
GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7: 12,5mm

Order data

| | |
|--------------|---------------|
| Order number | 122415 12,5 |
| GTIN | 4045197784735 |
| Item class | 11E |

Description
Version:

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low power output** 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 edge** 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 $L_c = L_2 + 1.5 \times D_c$.

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

Form **HB**: order with **No. 122416**.

Form **HE**: order with **No. 122415 + 129100HE**.

Technical description

| | |
|--|--------------|
| Overall length L | 107 mm |
| Tolerance nominal Ø | h7 |
| Standard | DIN 6537 K |
| Nominal Ø D _c | 12.5 mm |
| Feed f in steel < 1100 N/mm ² | 0.31 mm/rev. |
| Shank Ø D _s | 14 mm |

| | |
|--|-------------------|
| Flute length L_c | 60 mm |
| Number of cutting edges Z | 2 |
| Shank tolerance | h6 |
| recommended maximum drilling depth L_2 | 41.3 mm |
| Series | Master Steel |
| Coating | TiAlN |
| Tool material | solid carbide |
| Version | 4xD |
| Point angle | 135 degrees |
| Shank | DIN 6535 HA 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 ² | suitable | 170 m/min | P |
| Steel < 750 N/mm ² | suitable | 150 m/min | P |
| Steel < 900 N/mm ² | suitable | 120 m/min | P |
| Steel < 1100 N/mm ² | suitable | 110 m/min | P |
| Steel < 1400 N/mm ² | 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 | | |

Services

Shank grinding Type HE

129100 HE