

Garant

GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7: 4,4mm



Order data

| | |
|--------------|---------------|
| Order number | 123225 4,4 |
| GTIN | 4045197844934 |
| 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 $L_c = L_2 + 1.5 \times D_c$.

For process reliability when using the 12xD drill, an initial centre drilling with NC spotting drills No. 121068 – 121130 is necessary.

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

Order form **HB**: with **No. 123226**.

Order form **HE**: with **No. 123225 + 129100HE**.

Technical description

| Standard | Manufacturer's standard |
|--|-------------------------|
| Number of cutting edges Z | 2 |
| Overall length L | 102 mm |
| Flute length L_c | 64 mm |
| Feed f in steel < 1100 N/mm ² | 0.1 mm/rev. |

| | |
|--|-------------------|
| Shank $\varnothing D_s$ | 6 mm |
| Tolerance nominal \varnothing | h7 |
| recommended maximum drilling depth L_2 | 57.4 mm |
| Nominal $\varnothing D_c$ | 4.4 mm |
| Series | Master Steel |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Version | 12xD |
| Point angle | 135 degrees |
| 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 N/mm ² | suitable | 160 m/min | P |
| Steel < 750 N/mm ² | suitable | 125 m/min | P |
| Steel < 900 N/mm ² | suitable | 115 m/min | P |
| Steel < 1100 N/mm ² | suitable | 105 m/min | P |
| Steel < 1400 N/mm ² | suitable | 65 m/min | P |
| INOX < 900 N/mm ² | suitable only under restricted conditions | 55 m/min | M |
| GG | suitable | 100 m/min | K |
| GGG | suitable | 95 m/min | K |
| Uni | suitable | | |
| wet maximum | suitable | | |

wet minimum
Services

suitable

Shank grinding Type HE

129100 HE