

GARANT Master Steel SPEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7: 13,8mm



Order data

| Order number | 123225 13,8 |
|--------------|---------------|
| GTIN | 4045197845764 |
| 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 12×D 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

| Shank Ø D₅ | 14 mm | |
|-----------------------------|-------------------------|--|
| Standard | Manufacturer's standard | |
| Flute length L _c | 182 mm | |
| Tolerance nominal Ø | h7 | |
| Number of cutting edges Z | 2 | |

| Overall length L | 230 mm | |
|---|-------------------|--|
| recommended maximum drilling depth L ₂ | 161.3 mm | |
| Nominal Ø D _c | 13.8 mm | |
| Feed f in steel < 1100 N/mm ² | 0.23 mm/rev. | |
| Series | Master Steel | |
| Coating | TiAIN | |
| Tool material | Solid carbide | |
| Version | 12×D | |
| 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 | \mathbf{V}_{c} | ISO code |
|--------------------------------|---|------------------|----------|
| Steel < 500 N/mm ² | suitable | 160 m/min | Р |
| Steel < 750 N/mm ² | suitable | 125 m/min | Р |
| Steel < 900 N/mm ² | suitable | 115 m/min | Р |
| Steel < 1100 N/mm ² | suitable | 105 m/min | Р |
| Steel < 1400 N/mm ² | suitable | 65 m/min | Р |
| INOX < 900 N/mm ² | suitable only under restricted conditions | 55 m/min | М |
| GG | suitable | 100 m/min | K |
| GGG | suitable | 95 m/min | K |
| Uni | suitable | | |
| wet maximum | suitable | | |

| wet minimum Services | suitable | |
|-------------------------|----------|-----------|
| Services | | |
| Shank grinding Type HE | | 129100 HE |