Garant

Solid carbide drill plain shank DIN 6535 HA 180°, TiAIN, Ø DC m7: 13,8mm



Order data

| Order number | 122793 13,8 |
|--------------|---------------|
| GTIN | 4062406092351 |
| Item class | 11E |

Description

Version:

Special point geometry for generating **180° flat-bottomed holes.** Low radial forces even when spot drilling on faces with up to 15° slope. Flute geometry for optimum chip evacuation. With 4 guide chamfers to stabilise the drill in the hole.

Advantage:

The 180° point angle permits drilling and counterboring in a single operation. **Recommendation:**

When using the solid carbide 180° drill it is absolutely essential for process reliability:

- When spot drilling on flat surfaces to drill a pilot hole 1×D using pilot drill No. 122736.
- When spot drilling on sloping surfaces up to max. 15°: reduce the feed rate f to 25% of
- the stated value. After spot drilling, the normal feed rate value can be used.

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. 122793 + 129100HB**.

Form **HE:** order with **No. 122793 + 129100HE**.

180° solid carbide drills for machining aluminium available on request.

Not suitable for generating counterbores for socket-head screws to DIN974-1.

Technical description

| Standard | Manufacturer's standard |
|---------------------------|-------------------------|
| Overall length L | 122 mm |
| Number of cutting edges Z | 2 |
| Tolerance nominal Ø | m7 |

| Shank tolerance | h6 | |
|--|-------------------------------|--|
| Nominal Ø D _c | 13.8 mm | |
| Shank Ø D _s | 14 mm | |
| recommended maximum drilling depth L_2 | 54.3 mm | |
| Feed f in steel < 900 N/mm ² | 0.16 mm/rev. | |
| Flute length L _c | 75 mm | |
| Coating | TiAIN | |
| Tool material | Solid carbide | |
| Version | 5×D | |
| Point angle | 180 degrees | |
| Shank | DIN 6535 HA to h6 | |
| Use for drilling | limited convexity | |
| Use for drilling | limited cross-drilling | |
| Use for drilling | limited oblique spot drilling | |
| Through-coolant | yes, with 25 bar | |
| Pilot drill required | yes, pilot drill | |
| Semi-Standard | yes | |
| Colour ring | green | |
| Type of product | Jobber drill | |

User data

| | Suitability | V _c | ISO code |
|--------------------------------|---|----------------|----------|
| Steel < 500 N/mm ² | suitable | 85 m/min | Р |
| Steel < 750 N/mm ² | suitable | 75 m/min | Р |
| Steel < 900 N/mm ² | suitable | 60 m/min | Р |
| Steel < 1100 N/mm ² | suitable | 50 m/min | Р |
| INOX < 900 N/mm ² | suitable only under restricted conditions | 45 m/min | М |
| GG(G) | suitable | 90 m/min | К |

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| Uni | suitable | |
|----------------------------|----------|--|
| wet maximum | suitable | |
| wet minimum | suitable | |
| Air Services | suitable | |
| JEIVICES | | |
| | | |

| Shank grinding Type HB | 129100 HB |
|------------------------|-----------|
| Shank grinding Type HE | 129100 HE |