Garant

Solid carbide drill plain shank DIN 6535 HA 180°, TiAIN, Ø DC m7: 9mm



Order data

| Order number | 122506 9 |
|--------------|---------------|
| GTIN | 4045197744326 |
| 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 45° 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:

- \cdot 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 15°: reduce the feed rate f to 50%, up to 30°: reduce the feed rate f to 40% and up to 45°: 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. 122506 + 129100HB**.

Form **HE:** order with **No. 122506 + 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

| Number of cutting edges Z | 2 | |
|---------------------------|-------------------------|--|
| Standard | Manufacturer's standard | |
| Overall length L | 89 mm | |
| Shank tolerance h6 | | |

| Flute length L_c | 47 mm | |
|--|-------------------------------|--|
| Nominal Ø D _c | 9 mm | |
| Shank Ø Ds | 10 mm | |
| Tolerance nominal Ø | m7 | |
| Feed f in steel < 900 N/mm ² | 0.15 mm/rev. | |
| recommended maximum drilling depth L_2 | 33.5 mm | |
| Coating | TiAIN | |
| Tool material | Solid carbide | |
| Version | 3×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 | |

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