

Garant
HiPer-Drill base body, 5×D, Ø DC: 21 mm

Order data

| | |
|--------------|---------------|
| Order number | 231610 21 |
| GTIN | 4045197603043 |
| Item class | 21S |

Description
Version:

- **Very high feed rates and maximum performance due to optimally matched geometries and materials.**
- **Precise positioning of the cutter insert due to Vee insert seating and secure clamping by the centre bore.**
- **High concentricity when assembled.**
- **Shank support for optimum stability in operation.**

Application:

For stationary and rotating use. For holes up to IT9 accuracy.

Note:

The insert screw must be replaced after every fifth change of cutter insert.

Further sizes up to Ø 50.99 mm available on request.

Clamp in a hydraulic chuck (such as No. 302026 size 20) for optimum radial run-out.

For optimum stability, clamp the drill so the overhang is as short as possible.

Number of cutting edges Z: 2

Dia. range D_c : 21 - 21.99 mm

Reach L_1 : 110 mm

Shank Ø D_s : 25 mm

Shank length L_s : 56 mm

Clamping screw: 231999_9IP (2.2 Nm)

Technical description

| | |
|------------------|---------------|
| Dia. range D_c | 21 - 21.99 mm |
| Shank Ø D_s | 25 mm |
| Reach L_1 | 110 mm |

| | |
|-----------------------------|------------------------------------|
| Clamping screw | 231999_9IP (2.2 Nm) |
| Shank length L _s | 56 mm |
| Number of cutting edges Z | 2 |
| Drill depth up to | 5×D |
| Shank | ISO 9766 |
| Use for drilling | limited drilling through a stack |
| Use for drilling | limited oblique spot drilling |
| Use for drilling | limited drilling with oblique exit |
| Use for drilling | limited cross-drilling |
| Through-coolant | yes |
| Type of product | Indexable drill |

Accessories

| | |
|---|------------|
| Torx Plus® screw Drive 9IP | 231999 9IP |
| PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 9IP | 674252 9IP |
| Torque screwdriver, fixed setting set torque 2,2 Nm | 211750 2,2 |