

**Garant****HiPer-Drill base body, 3×D, Ø DC: 28mm****Order data**

Order number	231605 28
GTIN	4045197602893
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. (For holes up to IT9 accuracy)**
- **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.

**Technical description**

Shank Ø D <sub>s</sub>	32 mm
Reach L <sub>1</sub>	87 mm
Dia. range D <sub>c</sub>	28 - 28.99 mm
Clamping screw	231999 15IP1 (5.7 Nm)
Shank length L <sub>s</sub>	60 mm
Series	HiPer-Drill

Number of cutting edges Z	2
Overall length L	188 mm
Version	3xD
Shank	ISO 9766
Use for drilling	limited drilling with oblique exit
Use for drilling	limited oblique spot drilling
Use for drilling	limited cross-drilling
Use for drilling	limited drilling through a stack
Through-coolant	yes
Type of product	Indexable drill

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## Accessories

PrecisionBit for Torx Plus®, 1/4 inch E 6.3 Torx Plus® profile 15IP	674252 15IP
Torque screwdriver, fixed setting set torque 5,7 N·m	211750 5,7
Torx Plus® screw Drive 15IP1	231999 15IP1