

**Garant**
**HiPer-Drill base body, 3×D, Ø DC: 12,5mm**

**Order data**

Order number	231605 12,5
GTIN	4045197716156
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.**

Created by an additive procedure.

**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**

Clamping screw	231999 6IP (0.4 Nm)
Shank Ø D <sub>s</sub>	16 mm
Dia. range D <sub>c</sub>	12.5 - 12.99 mm
Reach L <sub>1</sub>	39 mm
Shank length L <sub>s</sub>	48 mm
Series	HiPer-Drill

Number of cutting edges Z	2
Overall length L	109 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

## Accessories

8 mm blade with magnetwith 1/4 inch bit holder overall length 50 mm	659874 50
Torx Plus® screw Drive 6IP	231999 6IP
PrecisionBit for Torx Plus®, 1/4 inch E 6.3 Torx Plus® profile 6IP	674252 6IP
Torque screwdriverwith scale, to take interchangeable blades maximum torque 200 cNm	659957 200