

**Garant**
**HiPer-Drill base body, 5×D, Ø DC: 13mm**

**Order data**

Order number	231610 13
GTIN	4045197602947
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**

Reach $L_1$	68 mm
Shank Ø $D_s$	16 mm
Dia. range $D_c$	13 - 13.49 mm
Clamping screw	231999 7IP (0.6 Nm)
Shank length $L_s$	48 mm
Series	HiPer-Drill
Number of cutting edges $Z$	2

Overall length L	138 mm
Version	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

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## Accessories

Torx Plus® screw Drive 7IP	231999 7IP
Torque screwdriver, fixed setting set torque 0,6 N·m	211750 0,6
PrecisionBit for Torx Plus®, 1/4 inch E 6.3 Torx Plus® profile 7IP	674252 7IP