# Garant

### HiPer-Drill base body, 12×D, Ø DC: 23 mm

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## Order data

Order number	231620 23
GTIN	4045197688750
Item class	215

## 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.
- Polished flutes.

#### Application:

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

#### Note:

Further sizes up to Ø 50.99 mm available on request.

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

Reduce feed rates f by 10 % and  $v_c$  values by 40 %.

For process reliability when using the drill, initial pilot drilling to 1.5×D with the drill No. 231600 with the same cutter insert size and type is necessary. **The generation of a pilot hole improves** 

## process reliability.

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.

For process reliability when using the drill, initial pilot drilling to 1.5×D with the drill No. 231600 with the same cutter insert size and type is necessary. **The generation of a pilot hole improves** 

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#### process reliability.

Number of cutting edges Z: 2 Dia. range  $D_c$ : 23 - 23.99 mm Reach  $L_1$ : 288 mm Shank Ø  $D_s$ : 25 mm Shank length  $L_s$ : 56 mm Clamping screw: 231999\_10IP (3.3 Nm)

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# **Technical description**

Clamping screw	231999_10IP (3.3 Nm)
Shank Ø D <sub>s</sub>	25 mm
Reach L <sub>1</sub>	288 mm
Dia. range D <sub>c</sub>	23 - 23.99 mm
Shank length L <sub>s</sub>	56 mm
Number of cutting edges Z	2
Drill depth up to	12×D
Shank	ISO 9766
Use for drilling	limited cross-drilling
Use for drilling	limited drilling through a stack
Use for drilling	limited oblique spot drilling
Use for drilling	limited drilling with oblique exit
Through-coolant	yes
Type of product	Indexable drill

## Accessories

Torx Plus <sup>®</sup> screw Drive 10IP	231999 10IP
Torque screwdriver with scale, to take interchangeable blades maximum torque 1600 cNm	659906 1600
PrecisionBit for Torx Plus <sup>®</sup> , shank E 6.3 Torx Plus <sup>®</sup> profile 10IP	674252 10IP