# Garant

HiPer-Drill base body, 3×D, Ø DC: 28 mm



## Order data

Order number	231605 28
GTIN	4045197602893
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.

#### 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  $\emptyset$  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<sub>c</sub>: 28 - 28.99 mm Reach L<sub>i</sub>: 87 mm

Shank Ø D<sub>s</sub>: 32 mm

Shank length L.: 60 mm

Clamping screw: 231999\_15IP1 (5.7 Nm)

## **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
Number of cutting edges Z	2
Drill depth up to	3×D
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

Torx Plus <sup>®</sup> screw Drive 15IP1	231999 15IP1
PrecisionBit for Torx Plus <sup>®</sup> , shank E 6.3 Torx Plus <sup>®</sup> profile 15IP	674252 15IP
Torque screwdriver, fixed setting set torque 5,7 Nm	211750 5,7