

# HiPer-Drill base body, 12×D, Ø DC: 28mm



### **Order data**

Order number	231620 28
GTIN	4045197688804
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  $\emptyset$  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 process reliability.** 

## **Technical description**

Reach L₁	348 mm
Clamping screw	231999 15IP1 (5.7 Nm)

Shank Ø D <sub>s</sub>	32 mm
Dia. range D <sub>c</sub>	28 - 28.99 mm
Shank length L <sub>s</sub>	60 mm
Series	HiPer-Drill
Number of cutting edges Z	2
Overall length L	449 mm
Version	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® screw Drive 15IP	231999 15IP
PrecisionBit for Torx Plus®, 1/4 inch E 6.3 Torx Plus® profile 15IP	674252 15IP
Torx Plus® screw Drive 15IP1	231999 15IP1
Torque screwdriver, fixed setting set torque 5,0 N·m	211750 5,0