

**Garant**
**HiPer-Drill base body, 3×D, Ø DC: 10,5 mm**

**Order data**

Order number	231605 10,5
GTIN	4045197716118
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.**
- **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.

Number of cutting edges Z: 2

Dia. range  $D_c$ : 10.5 - 10.99 mm

Reach  $L_1$ : 33 mm

Shank Ø  $D_s$ : 16 mm

Shank length  $L_s$ : 48 mm

Clamping screw: 231999\_5IP1 (0.2 Nm)

**Technical description**

Shank Ø $D_s$	16 mm
Reach $L_1$	33 mm

Clamping screw	231999_5IP1 (0.2 Nm)
Dia. range $D_c$	10.5 - 10.99 mm
Shank length $L_s$	48 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® screw Drive 5IP1	231999 5IP1
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 5IP	674252 5IP
Torque screwdriver, fixed setting set torque 0,2 Nm	211750 0,2