

HiPer-Drill base body, 10×D, Ø DC: 13,5 mm



Order data

Order number	231617 13,5
GTIN	4045197868138
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.

Recommendation:

Drill the pilot hole.

Note:

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.

Further sizes up to \varnothing 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 30 %.

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.**

Number of cutting edges Z: 2 Dia. range D_c: 13.5 - 13.99 mm

Reach L₁: 140 mm Shank Ø D₅: 16 mm Shank length L₅: 48 mm

Clamping screw: 231999_7IP (0.6 Nm)

Technical description

Shank length L₅	48 mm
Dia. range D _c	13.5 - 13.99 mm
Clamping screw	231999_7IP (0.6 Nm)
Shank Ø D _s	16 mm
Reach L ₁	140 mm
Number of cutting edges Z	2
Drill depth up to	10×D
Shank	ISO 9766
Use for drilling	limited drilling through a stack
Use for drilling	limited drilling with oblique exit
Use for drilling	limited cross-drilling
Use for drilling	limited oblique spot drilling
Through-coolant	yes
Type of product	Indexable drill

Accessories

Torx Plus® screw Drive 7IP	231999 7IP
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 7IP	674252 7IP
Torque screwdriver, fixed setting set torque 0,6 Nm	211750 0,6