Garant

HiPer-Drill base body, 10×D, Ø DC: 19 mm

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Order data

Order number	231617 19
GTIN	4045197869005
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 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 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 : 19 - 19.99 mm Reach L_1 : 200 mm Shank Ø D_s : 25 mm Shank length L_s : 56 mm Clamping screw: 231999_9IP (2.2 Nm)

Technical description

Clamping screw	231999_9IP (2.2 Nm)
Shank length L _s	56 mm
Dia. range D _c	19 - 19.99 mm
Reach L ₁	200 mm
Shank Ø D _s	25 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 9IP	231999 9IP
PrecisionBit for Torx Plus [®] , shank E 6.3 Torx Plus [®] profile 9IP	674252 9IP
Torque screwdriver, fixed setting set torque 2,2 Nm	211750 2,2