

Garant
HiPer-Drill base body, 3×D, Ø DC: 19mm

Order data

Order number	231605 19
GTIN	4045197602800
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. (For holes up to IT9 accuracy)**
- **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 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.

Technical description

Reach L_1	60 mm
Clamping screw	231999 9IP (2.2 Nm)
Dia. range D_c	19 - 19.99 mm
Shank $\varnothing D_s$	25 mm
Shank length L_s	56 mm
Series	HiPer-Drill

Number of cutting edges Z	2
Overall length L	146 mm
Version	3xD
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

Torque screwdriver, fixed setting set torque 2,2 N·m	211750 2,2
PrecisionBit for Torx Plus®, 1/4 inch E 6.3 Torx Plus® profile 9IP	674252 9IP
Torx Plus® screw Drive 9IP	231999 9IP