

Garant
HiPer-Drill base body, 3×D, Ø DC: 12 mm

Order data

Order number	231605 12
GTIN	4045197716149
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: 12 - 12.49 mm

Reach L₁: 38 mm

Shank Ø D_s: 16 mm

Shank length L_s: 48 mm

Clamping screw: 231999_6IP (0.4 Nm)

Technical description

Dia. range D _c	12 - 12.49 mm
Clamping screw	231999_6IP (0.4 Nm)

Reach L_1	38 mm
Shank $\varnothing D_s$	16 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 6IP	231999 6IP
Torque screwdriver with scale, to take interchangeable blades maximum torque 200 cNm	659906 200
8 mm blade with magnet with 1/4 inch bit holder overall length 50 mm	659874 50
PrecisionBit for Torx Plus®, shank E 6.3 Torx Plus® profile 6IP	674252 6IP