



# SAFETY AND TECHNICAL DATA SHEET GUIDE

## DIAMOND DRILL BIT

### PRODUCT INFO

**PRODUCT NAME**  
DIAMOND DRILL BIT

**PRODUCT REF**  
DRLL - 301 ~ 304

**PRODUCT DESCRIPTION**  
CORE DRILL

**PRODUCT CATEGORIES**  
OIL & GAS, MINING, LAB TESTING

### QUICK GUIDE

Geofactory offers a wide range of diamond drill bits designed for durability, speed, and strength. Our range includes impregnated, segmented, thin wall, and mini plug options. They are suitable for extracting plugs in all rock formations, including sedimentary, igneous, and metamorphic rocks.



Geofactory offers a wide range of drill bits designed for durability, speed and strength. Our range includes impregnated, segmented, thin wall and mini plug options. Our diamond drill bits are suitable for plug sampling in all types of rock, including granite and hard stone. Tool lifespan depends on correct operating parameters: proper RPM, selecting the appropriate diamond for the formation, sufficient lubrication, and controlled cutting penetration.

### TECHNICAL SPECIFICATION

| MODEL                  | DIAMETER & THICKNESS      | STANDARD LENGTH | APPLICATION                       |
|------------------------|---------------------------|-----------------|-----------------------------------|
| Segmented<br>DRLL-301  | Ø 1.5" & 2"<br>3 mm       | 160 mm          | Hard formations                   |
| Head Crown<br>DRLL-302 | Ø 1", 1.5" & 2"<br>2.2 mm | 160 mm          | Hard & Consolidated<br>formations |
| Thin Wall<br>DRLL-303  | Ø 1", 1.5" & 2"<br>1.8 mm | 160 mm          | Friable &<br>Soft formations      |
| Micro Plug<br>DRLL-304 | Ø 2 to 10 mm<br>0.5 mm    | 50 mm           | Hard & Consolidated<br>formations |

Special diameter & length under request (Standard Connection BSP 1/2")

#### SEGMENTED MODEL

Manufactured with robust diamond segments, this aggressive drill bit excels in hard geological formations. Its main advantage is exceptional strength, suitable for all well-consolidated formations.



#### HEAD CROWN MODEL

A welded crown, is thinner than the segmented model and works efficiently on hard and consolidated formations. It offers good precision and fluid circulation, suitable for various geological condition.



#### THIN WALL DIAMOND MODEL

A wall thickness down to just 1.2 mm, this impregnated diamond drill bit allows for high RPM drilling and ensures good fluid circulation. Its main advantage is the high RPM and very high precision, making it ideal for delicate and less consolidated geological structures.



#### MICRO PLUG DIAMOND MODEL

Optimized for precision sampling, the Micro Plug Diamond Drill Bit is designed for obtaining high-quality small-diameter core samples with internal diameters of 2 to 10 mm. Suitable for applications such as Micro CT imaging, it ensures minimal material disruption and preserves sample integrity for accurate analysis, including NMR.

