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Highest efficiency  
at lowest cost

Highest  
productivity

Very strong frame

## **DeltaBase 051**

### **Soil testing & sampling drill rig**

#### **Advantages**

- Low weight of 850 kg
- Compact appearance of 2030 x 770 x 1360 mm (LxWxH) will fit through most standard door openings
- Diesel engine, can be advantageous in environmental drilling applications
- Simple and robust design of the drive head, which connects the tooling to the machine, makes rod changing very efficient, increasing overall productivity

#### **Applications**

- Standard Penetration Test (SPT)
- Dynamic probing
- Soil sampling with percussive core barrels
- Installation of gas / water monitoring wells





# DeltaBase 051

Boart Longyear has been producing high performance, quality products to the exploration, mining and water well industry for over 100 years. The DeltaBase 051 is a self propelled drill rig intended for windowless sampling and dynamic testing. It is designed for fast and efficient testing and sampling of soils for geotechnical and environmental applications.

## Features

- Quick release guard over the hammer mechanism, enabling quick changing of weight and drop distance
- On board tooling box to hold rods and samplers

## Accessories

- Coring head to core through concrete or asphalt
- Vice, including bolt-on mounting brackets
- Yanmar Spark arrestor for work on sites where fire hazards exist
- Manual stabilizing jacks for increased stability during drilling

The DeltaBase 051 can drill simultaneously with sampling tubes and casing. In extremely difficult conditions, holes can be started with large diameter casing and then changed to smaller diameter casing at depth to improve penetration rates.

With the included and easy to use pullout jack 15 t of pullout force is available for casing extraction. The undisturbed core is collected in a plastic liner held in the sample tube. A vice is optionally available to hold the sample tube while the sampler shoe is uncoupled and the retaining ring and plastic liner are withdrawn.

The design of the drive head eliminates the need for any threading or inserting of pins to connect the drill rods to the machine, thereby greatly improving the efficiency of rod adding and pulling operations.

Our new R32 Impactor rods offer a robust alternative to the standard rods. Not only are the Impactor rods very resistant to fatigue failure but they also reduce the time involved in making connections due to the few threads and easy making and breaking.

### BOART LONGYEAR IS A LEADING PROVIDER OF:

GLOBAL DRILLING SERVICES

EXPLORATION TOOLS AND EQUIPMENT

ROCK DRILLING TOOLS AND EQUIPMENT

GEOTECHNICAL AND ENVIRONMENTAL TOOLS, EQUIPMENT AND INSTRUMENTATION

CONCRETE AND STONE TOOLS AND EQUIPMENT

### DIMENSIONS AND WEIGHT:

Length: 2030 mm

Height: 1360 mm

Operational weight: approx. 850 kg

Width: 770 mm

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DB051\_LF\_20070401 ©2007