

DeltaBase 540

Multipurpose drill rig



DeltaBase 540

Boart Longyear has been producing high performance, quality products to the exploration, mining and water well industry for over 100 years. The DeltaBase 540 is a crawler mounted drill rig, especially designed to perform a wide variety of drilling operations. The rig is optimized to drill hole diameters from 4" to 10". Recommended weight of in-hole tools is 10 metric tonnes.

Advantages:

- Easy procedures to interchange between different drilling methods
- Short set up time
- Boart Longyear rod handling device mounted directly on the head
- Drill rig mounted with crawlers for excellent terrain performance
- Heavy duty steel structure designed for modern construction sites

Features:

- Capacity to drill with direct mud/air circulation, DTH hammers and wireline coring
- Rod holding and thread break-out clamp with adjustable clamping force
- Rotary head with side shift and floating spindle
- Steel protected hydraulic levelling jacks
- Highly efficient diesel driven hydraulic system
- Standardly equipped with tramming remote control
- The unit is designed for operation up to 1000 meters above sea level at temperatures from -10 to +35°C

Applications:

- Direct circulation water well or geothermal well drilling
- Geotechnical investigation drilling
- Environmental drilling
- Core drilling using a mud pump on the rig
- DTH drilling with or without ODEX systems
- Auger drilling with normal or hollow stem augers
- SPT test with hydraulic SPT hammer mounted on cylinder for height adjustment

Accessories:

- Wireline winch
- Piston mud pump
- Hydraulic SPT
- 2 Main winches
- Auxilliary winch
- Compressor for hand tools

The rotary head is equipped with one hydraulic motor and a floating spindle. It can be side shifted. The rotation speed is variable for both directions from 0 to 550 rpm.

The guide mast comes with a mast dump and it has a built-in hydraulic cylinder and chain transmission.

Maintenance of the DeltaBase 540 is easy because of its optimized design and reduced bulk that allows access to all components. Penetration rates and bit life are optimized through the precise control the operator has over rpm and torque.



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