

DTH 300

Economic Pack Drilling Rig



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DTH 300 is Top Head Drive DTH Drilling Rig is capable of drilling in different formations such as Hard Rock by DTH, Un consolidated / Alluvial formations using Air/Water/ Foam flush by Rotary Method up to a depth of 300 Meters, Under favorable drilling conditions.

TECHNICAL Specifications

DTH Drilling

Carrier Truck

Hole Dia 6.5" and 8" Up to Max.300 Meters depth.

Max Overburden Dia: 9"

Make

1st Truck for the mounting of Rig and the Air compressor.

Ashok Leyland

Prime Mover

The system shall be powered from the same truck Engine with PTO arrangement thru a Transfer Gear Box.

Mast Assembly

Overall Length: 8800mm

Rotary Head Travel: 7000mm

Centralizer Opening: 10 5/8" (270 mm)

Feed System

Feed & Hoist actuation: Pulley, wire rope & Hydraulic cylinder.

Pull Back: 14100 Kgf

Pull Down: 6900 Kgf

Feed Cylinder Size & Stroke: Dia 140 mm x Dia 100mm x 2350mm lg

Hoisting Speed: 35 M/m

Reeving Ratio: 1:3

Rotary Head Assembly

Top Head Drive Fabricated steel body

Torque Speed: 280 Kg-m

Rotation Speed: Spindle RPM: 0-100 Rpm

Note: The RH unit travels on Mast assembly to absorb sudden shock loads encountered during drilling operation.

Hydraulics

Max Operating Pressure: 275 Kg/Cm2

Hydraulic Tank Capacity: 550 Liters.

Filtration (Nom) - Return line: 10/25 Microns

Oil Cooler: Fin type oil to Air.

Stabilizer

Model: Hydraulically operated Box type jacks

Cylinder Bore Diameter: 125mm

Stroke: 650mm

No. Of Jacks: 4 Nos

Break Out Wrench

Cylinder Bore Diameter: 100mm

Stroke: 300mm

Mast Raising Cylinder

Cylinder Bore Diameter: 100mm

Stroke: 800mm

Water Injection Pump

Max. Flow: 56 Liter/minute Max. Pressure: 40 kg/cm2

Auxiliary Winch

Bare Drum-Pull: 1000 kgf

Max. Speed: 20 Meter/minute

Single Rod Changer Assly

Manually operated Single Rod changer for changing/adding the drill pipes.

Airline Lubricator

Make: Spinc

Capacity: 1450 Cfm/350psi

Air Compressor

Make: ATLAS COP CO /ELGI

Capacity: 1100 Cfm/300 PSI

Mud Pump

Optional