

RC-600-JET REVERSE CIRCULATION DRILLING RIG

Rated Capacity	: 450 mm - 1270 mm dia. hole, Depth up to 150 Mts. - 200 Mts. without air injection System depending on formation encountered. Casing pipe setting up to 1016 mm diameter.
Mast	: 2
Construction	: Electrically Welded tubular steel construction.
Height	: 14.5 Mts. clearance from table top to bottom of crown.
Gross Load Capacity	: 27200 Kgs.
Hook Load Capacity	: 18150 Kgs. with four lines. 20500 Kgs. with six lines.
Raising and Lowering	: 2 Nos. Double acting hydraulic cylinders.
Crown Block	: 6 Nos. roller bearing mounted wire lines sheaves and 1 No. Cat line sheave.
Rotary Table	: 2
Opening	: 457 mm
Gear Ratio	: 6 : 1 Bevel Gear and Pinion.
Type	: Hinges in vertical position for changing large dia. bits OR lowering casing pipes.
Drive	: Torque tube.
Clutch	: 279 mm Two plates mechanical disc clutch.
Draw Works	: Two Identical drums
Barrel Dia. & Length	: 178 mm X 320 mm
Flange Dia.	: 500 mm
Pull Capacity	: 6850 Kgs. Single line bare drum.
Clutch	: 406 mm 2 plate mechanical type
Brake	: 470 mm X 115 mm Mechanical high leverage type double brake.
Drive	: Chain
Slush Pump	:
Size	: 127 mm Suction & 101.6 mm Delivery
Type	: High Pressure Centrifugal.
Drive	: Through Diesel Engine, PTO and Tyre Coupling.
Jet Eductor	: 152 mm full open centrifugal pump operated. Instantly self-priming. No moving parts. This jet eductor is a hydraulic jet mechanism so designed that it develops an exceptionally high vacuum, This facilitating operation to greater depth. It is instantly self priming, eliminating the use of any separate priming device. So designed that all the cuttings, grit and boulders in the return line completely by-pass all operating mechanism. The centrifugal pump handles only the small quantity of cutting-free water necessary to actuate the jet.
Jacks	: Total 6 Nos. mechanical screw jacks.
Swivel	: 152 mm Dia. full open, oil bath.
Kelly	: 178 mm X 152 mm ID X 4.26 Mts. long flange type fabricated kelly.
Drill Pipe	: 150 mm ID X 3.05 Mts. long flange type drill pipe.
Prime Mover	: By Two Nos. Diesel Engine each developing around 100 HP at 1800 RPM.
Mounting	: Low frame, rear two axle, semi trailer equipped with horse coupling.
Optional	: Air lift equipment.