

Technical Specification





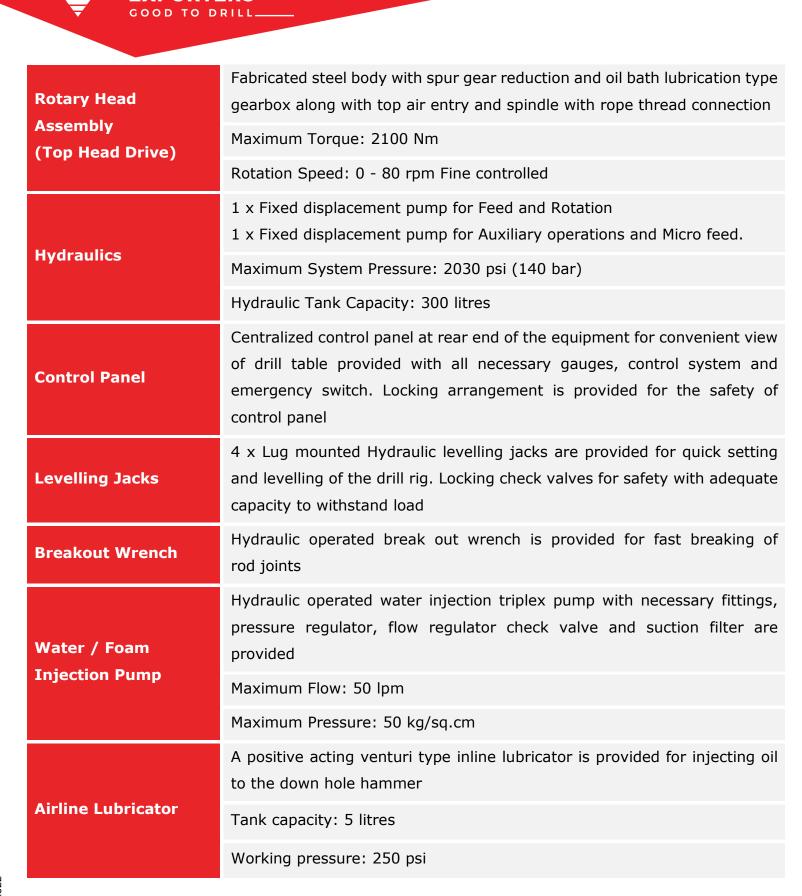
A highly compact bore hole drilling rig with a pull up force of 5100 kg capable of drilling 6 $\frac{1}{2}$ " diameter up to 180 m depth. Drilling hole size range from 6 $\frac{1}{2}$ " to 8".

Note: The images provided here are for reference only and do not depict the exact specification outlined in this document.



Application	Domestic Water Wells
Capacity	Hole Diameter: 165 - 203 mm (6 ½" - 8")
	Maximum Depth: 180 m @ 165 mm (6 ½") diameter
Drilling Method	DTH and Rotary Drilling
Prime Mover*	Rig hydraulic system is powered from Truck Engine with PTO option through Transfer Gearbox arrangements or suitable Deck Engine – 105 hp.
Platform Structure	Heavy I and C section welded steel structure covered with 5mm chequered plate
Mast Assembly	Strong structural steel twin tubular box type construction
	Mast Overall Length: 5000 mm
	Rotary Head Travel: 3700 mm
	Rod Handling: 3 m
	Drill rod size: 3 1/2" OD (89 mm)
	Centralizer Opening: 10 5/8" (270 mm)
Mast Raising Cylinder	Mast is raised and lowered by single hydraulic cylinder
Feed System	1 x Double acting hydraulic cylinder with 1:2 rope reeving system
	Pull Up Force: 5100 kgf (9790 lb.f) @ 140 bar
	Pull Down Force: 3100 kgf (5940 lb.f) @ 140 bar
	Pull Up Speed: 35 m/min
	Pull Down Speed: 87 m/min





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Recommended Air Compressor*	Make ELGI <u>Compressor capacity</u> 550 cfm - 200 psi (14 bar) 575 cfm - 225 psi (16 bar)
Mud Pump Option*	Hydraulic operated PRD 125 Mud Pump (5" x 4.5") Stroke: 5" (127 mm) Liner size diameter: 4.5" (114 mm) Displacement (Max recommended): 550 lpm Maximum working Pressure: 197 psi (13.85 kg/sq.cm)
	Engine / Hydraulic driven Centrifugal Mud Pump: Discharge: 600 lpm Total Head: 30 mtr
Additional Fitments	Night Lights, Tool box, Hammer stand, Fuel tank for compressor
User Manual	Manual for Operation, Maintenance and Spare Parts
Truck Option*	Ashok Leyland 4x2 Ashok Leyland Stallion 4x4 SINOTRUK 4x4 12 ton GVW Truck
Mounting Option*	Truck / Crawler / Skid
Optional Attachments	Welding Machine
	Auxiliary winch: 1 ton
	Single Rod Changer

*Combinations will vary according to our Design feasibility





























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