

## **Technical Specification**





A highly compact bore hole drilling rig with a pull up force of 4450 kg capable of drilling  $\frac{1}{2}$  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.



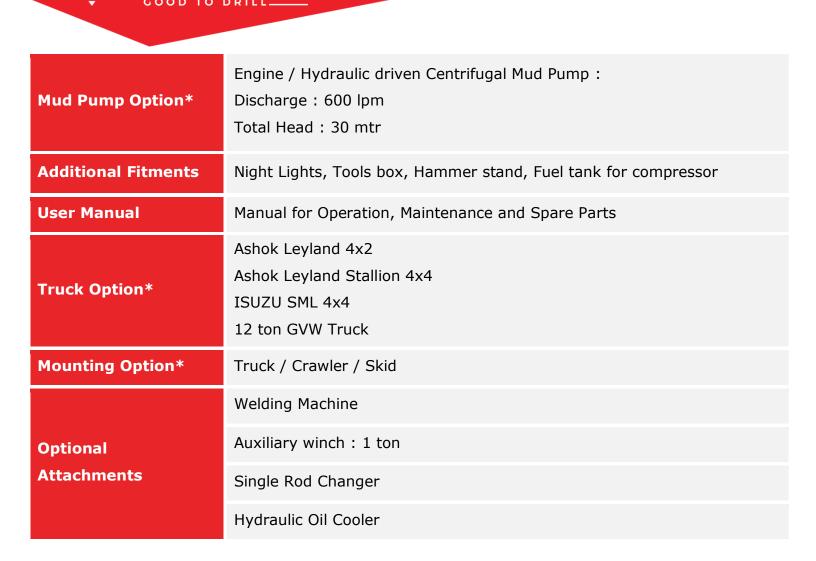
Application	Domestic Water Wells
Capacity	Hole Diameter : 165 - 203 mm (6 ½" - 8")
	Maximum Depth : 180 m @ 165 mm (6 $\frac{1}{2}$ ") diameter
Drilling Method	DTH and Rotary Drilling
Prime Mover*	Rig hydraulic system is powered from Truck Engine with PTO option through Transfer Gearbox arrangements or suitable Deck Engine - 52 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
	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 : 4450 kgf (9790 lb.f) @ 140 bar
	Pull Down Force : 2700 kgf (5940 lb.f) @ 140 bar
	Pull Up Speed : 35 m/min
	Pull Down Speed : 87 m/min
Rotary Head Assembly (Top Head Drive)	Fabricated steel body with spur gear reduction and oil bath lubrication type gearbox along with top air entry and spindle with rope thread connection
	Maximum Torque : 2100 Nm
	Rotation Speed: 0 - 80 rpm Fine controlled

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\*Combinations will vary according to our Design feasibility

RANTHAMAN











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