

Technical Specification

PRD MAX DRILL



A combination bore hole drilling rig with a pull up force of 18000 kg capable of drilling 6 $\frac{1}{2}$ " diameters up to 600 m depth. Drilling hole size range from 6 $\frac{1}{2}$ " to 14".

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



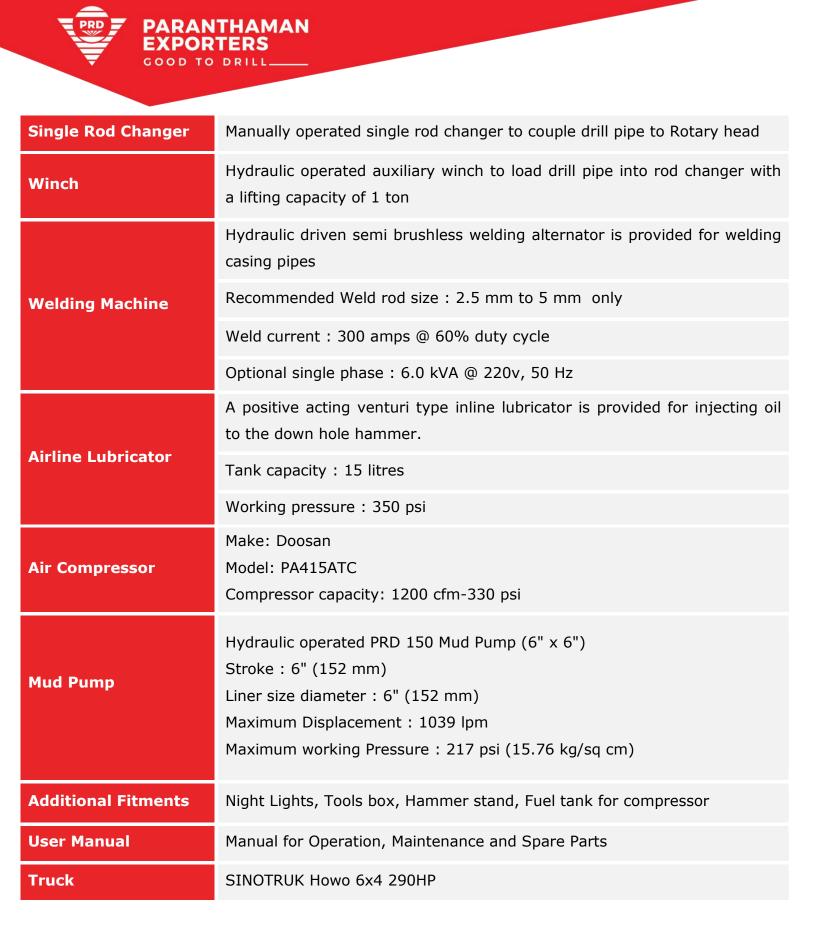


Application	Domestic Water Wells Monitoring holes Irrigation
Capacity	Hole Diameter : 165 - 356 mm (6 ½" - 14")
	Maximum Depth : 600 m @ 165 mm (6 ½") diameter
Drilling Method	DTH and Rotary Drilling
Prime Mover	Rig hydraulic system is powered from Truck Engine with PTO option through Transfer Gearbox arrangements
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 : 9000 mm
	Rotary Head Travel: 7950 mm
	Rod Handling : 5 m
	Centralizer Opening: 16" (406 mm)
Mast Raising Cylinder	Mast is raised and lowered by single hydraulic cylinder
Feed System	$2 ext{ x Double acting hydraulic cylinder with 1:3 rope reeving system}$
	Pull Up Force : 18000 kgf (39600 lb.f) @ 210 bar
	Pull Down Force : 11800 kgf (25960 lb.f) @ 210 bar
	Pull Up Speed : 40 m/min
	Pull Down Speed : 58 m/min



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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 thread connection of API 2 7/8 IF driven by double hydraulic motor.
	Maximum Torque: 6545 Nm
	Rotation Speed : 0 - 100 rpm Fine controlled
Hydraulics	 2 x Fixed displacement pump for Feed and Rotation 1 x Fixed displacement pump for Mud pump 3 x Fixed displacement pump for Hydraulic cooler, Auxiliary operations and Micro feed
	Maximum System Pressure : 3045 psi (210 bar)
	Hydraulic Oil Cooler : 120 gpm
	Hydraulic Tank Capacity : 600 litres
Control Panel	Swing out - Centralized control panel is at rear end of the equipment for convenient view of drill table provided with all necessary gauges, control system and emergency switch. Locking arrangement is provided for the safety of control panel
Levelling Jacks	4 x Hydraulic leveling jacks are provided for quick setting and leveling with heavy duty telescopic guides. Locking check valves for safety with adequate capacity to withstand load
Breakout Wrench	Hydraulic operated break out wrench is provided for fast breaking of rod joints
Water / Foam Injection Pump	Hydraulic operated water injection triplex pump with necessary fittings, pressure regulator, flow regulator, check valve and suction filter are provided
	Maximum Flow : 80 lpm
	Maximum Pressure : 40 kg/sq.cm





*Combinations will vary according to our Design feasibility











































HAPPY DRILLING FOREVER WITH PRD RIGS

