



Technical Specification

PRD Pole Drill Rig



A Conquering Earth hole drilling rig capable of drilling large diameter DTH drilling to a depth of 15mtrs, it can be mounted on a truck and trailer the PRD POLE DRILL is used in various applications like Pole erection, polite hole oil and gas special purpose construction applications.

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





Capacity	Hole Diameter : 450 - 1200 mm (17"- 47") diameter
	Maximum Depth : 15 m @ 1200 mm
Drilling Application	Pole drill
Drilling Method	DTH
Prime Mover*	Rig hydraulic system is powered with Suitable Deck Engine-260 hp
Mounting 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 : 7000 mm
	Rotary Head Travel : 6000 mm
	Centralizer Opening : 22" (560 mm)
Mast Raising Cylinder	Mast is raised and lowered by four hydraulic cylinder
Mast Dumping	Mast is provided with forward dumping arrangement
Feed System	1 x Double acting hydraulic cylinder with 1:1 feed system
	Pull Up Force : 20000 kgf (44000 lb.f) @ 160 bar
	Pull Down Force : 8500 kgf (18700 lb.f) @ 160 bar
	Pull Up Speed : 20 m/min
	Pull Down Speed : 30 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 thread connection of API 6 5/8 REG. Rotary Head travels on mast assembly and absorb sudden shock loads encountered during drilling operation. Driven by four hydraulic motor to attain maximum torque.

Maximum Torque : 14000 Nm

Rotation Speed : 0 - 50 rpm Fine controlled

Hydraulics

2 x variable displacement piston pump for Feed & Rotation
2 x fixed displacement pump for Hydraulic cooler, Auxiliary operations

Maximum System Pressure : 2320 psi (160 bar)

Hydraulic Oil Cooler : 120 gpm

Hydraulic Tank Capacity : 850 litres

Control Panel

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.

A portable joystick panel is provided for remote operation to keep the operator away from the dust.

Levelling Jacks

6 x Hydraulic levelling jacks are provided for quick setting and levelling with heavy duty telescopic guides. Locking check valves for safety with adequate capacity to withstand load

Water Injection Pump

Hydraulic operated water injection triplex pump with necessary fittings, pressure regulator, check valve and suction filter are provided

Maximum Flow : 80 lpm

Maximum Pressure : 40 kg/sq.cm





Winch	Winch on mast : 10 ton
Airline Lubricator	A positive acting venturi type line lubricator is provided for injecting oil in the compressed air system to lubricate the working of pneumatic tools
	Tank capacity : 25 litres
Recommended Air Compressor*	Make : ELGI / Atlas Copco / Doosan Compressor capacity : 2 or more 1100 cfm - 300 psi (21 bar)
Additional Fitments	Night Lights, Tools box
User Manual	Manual for Operation, Maintenance and Spare Parts
Truck Option*	RENAULT 8x4 / RENAULT 6X4 Min 38 GVW TRUCK
Optional Attachments	Radio Remote operation

**Combinations will vary according to our Design feasibility*







Happy Drilling forever with PRD Rigs

