

Technical Specification

PRD Tractor Mounted Rig



A robust and proven innovative product which is used in the application of construction Piling capable of drilling 1200 mm diameter up to 30 m depth and also DTH drilling 6 ½" diameters up to 200 m With high torque it has drilling through the toughest of site in the Indian sub-continent.

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





| Application | Domestic water wells Piling Exploration Solar |
|---|---|
| Capacity | Water well Drilling : 200 m @ 165 mm (6 $\frac{1}{2}$ ") diameter |
| | Pile Drilling: 30 m @ 1200 mm direct mud circulation method |
| Drilling Method | DTH and Rotary |
| Prime Mover* | Rig hydraulic system is powered from Tractor Engine with PTO option through Transfer Gearbox arrangements -75 hp/90 hp |
| Mast Assembly | Strong structural steel twin tubular box type construction |
| | Mast Overall Length : 5280 mm |
| | Rotary Head Travel : 3700 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 1:3 rope reeving system |
| | Pull Up Force : 7900 kgf (17420 lb.f) @ 190 bar |
| | Pull Down Force : 5400 kgf (11900 lb.f) @ 190 bar |
| | Pull Up Speed : 62 m/min |
| | Pull Down Speed : 103 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 2 7/8 IF driven by single hydraulic motor. |
| | Maximum Torque : 4000 Nm |
| | Rotation Speed : 0 - 80 rpm Fine controlled |









| Recommended Air Compressor* | Make ELGI / Atlas Copco / Doosan <u>Compressor capacity</u> 600 cfm-200 psi (14 bar) 1100 cfm-300 psi (21 bar) |
|--------------------------------|---|
| Mud Pump Option* | Separate Engine driven 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, Tools box |
| User Manual | Manual for Operation, Maintenance and Spare Parts |
| Tractor Option* | Sonalika New Holland - 75 HP/90 HP |
| Optional Attachments | Welding machine |
| | Auxiliary winch : 1 ton |
| | Single Rod Changer |

*Combinations will vary according to our Design feasibility











Happy Drilling forever with PRD Rigs

