



Technical Specification

PRD GOLD RC



A robust & efficient sample recovery reverse circulation drilling rig with a pull up force of 10800 kg capable of drilling 5 ½" diameters up to 200 m depth.

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





Application	Surface Exploration
Capacity	RC : 200 m @ 140 mm (5 ½") diameter
Drilling Application	Surface Exploration
Drilling Angle	45° to 90°
Prime Mover*	Rig hydraulic system is powered from Truck Engine with PTO option through Transfer Gearbox Arrangements or 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 : 8000 mm
	Rotary Head Travel : 7050 mm
	Rod Handling : 6 m
Mast Raising Cylinder	Mast is raised and lowered by single hydraulic cylinder
Mast Dumping	Mast is provided with dumping arrangement for angle drilling
Feed System	1 x Double acting hydraulic cylinder with 1:3 rope reeving system
	Pull Up Force : 10800 kgf (23810 lb.f) @ 210 bar
	Pull Down Force : 7300 kgf (16060 lb.f) @ 210 bar
	Pull Up Speed : 39 m/min
	Pull Down Speed : 58 m/min





Rotary Head Assembly (Top Head Drive)	<p>Fabricated steel body with spur gear reduction and oil bath lubrication type gearbox equipped with top air entry swivel, bottom swivel and blow down unit having 65 mm hollow spindle thread connection of 3 ½" API IF (male) at the bottom driven by two hydraulic motor.</p> <p>Maximum Torque : 4000 Nm</p> <p>Rotation Speed : 0 - 100 rpm Fine controlled</p>
Airline Lubricator	<p>A positive acting venturi type inline lubricator is provided for injecting oil to the down hole hammer.</p> <p>Tank capacity : 15 litres</p> <p>Working pressure : 350 psi</p>
Hydraulics	<p>2 x Fixed displacement pump for Feed and Rotation 3 x Fixed displacement pump for Hydraulic cooler, Auxiliary operations and Micro feed</p> <p>Maximum System Pressure : 3045 psi (210 bar)</p> <p>Hydraulic Oil Cooler : 70 gpm</p>
Jib Boom Arm	<p>Jib Boom Arm is provided for handling drill rods during RC drilling</p>
RC Attachments	<p>RC Head, Cyclone, RC hose, Swivel</p>
Breakout Wrench	<p>Hydraulic operated break out wrench is provided for fast breaking of rod joints</p>
Control Panel	<p>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</p>
Single Rod Changer	<p>Manually operated single rod changer to couple drill pipe to Rotary head</p>





Levelling Jacks	4 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
Welding Machine	Hydraulic driven semi brushless welding alternator is provided for welding casing pipes
	Recommended Weld rod size : 2.5 mm to 5 mm only
	Weld current : 300 amps @ 60% duty cycle
	Optional single phase : 6.0 kVA @ 220v, 50 Hz
Recommended Air Compressor*	<u>Make</u> ELGI / Atlas Copco / Doosan
	<u>Compressor capacity</u> 1100 cfm-300 psi (21 bar) 1200 cfm-330 psi (24 bar)
Additional Fitments	Night Lights, Tools box, Hammer stand, Fuel tank for compressor
User Manual	Manual for Operation, Maintenance and Spare Parts
Truck Option*	MAN 6x6 & 6x4
	SINOTRUK Howo 6x6 & 6x4
	Min 25 ton GVW Truck
Mounting Option*	Truck / Crawler / Skid
Optional Attachments	Mines safety features
	RC fixed cone splitter

**Combinations will vary according to our Design feasibility*





Happy Drilling forever with PRD Rigs

