



Technical Specification

PRD Core 750



Miners preferred surface core drilling rig capable to drill 750 m of NQ size. High speed top drive rotary head can do PO. HO. NO & BO drill sizes.

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





Application	Surface Exploration
Capacity	PQ : 150 m
	HQ : 450 m
	NQ : 750 m
Drilling Angle	45° to 90°
Prime Mover*	Rig hydraulic system is powered from Deck engine 215 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, Foldable mast
	Mast Overall Length : 6000 mm
	Rotary Head Travel : 3400 mm
	Rod handling : 3 m
	Rod pull out : 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	Single hydraulic cylinder with 1:1 ratio
	Pull Up Force : 12400 kgf
	Pull Down Force : 6300 kgf
	Pull Up Speed : 26 m/min
	Pull Down Speed : 41 m/min
Rotary Head Assembly (Top Head Drive)	Rotary head with sliding option for wireline winch usage
	Torque : 825 - 3700 Nm
	Speed : 290 - 1250 rpm





Hydraulics	<p>1 x variable displacement pump for Feed, Rotation & winches 1 x variable displacement pump for fast rotation 1 x Fixed displacement pump for water pump 1 x Fixed displacement pump for Hydraulic cooler</p> <p>Maximum System Pressure : 3480 psi (240 bar)</p> <p>Hydraulic Oil Cooler : 120 gpm</p> <p>Hydraulic Tank Capacity : 600 litres</p>
Control Panel	<p>Centralized control panel is at rear left-end of the equipment for convenient view of drill table provided with all necessary gauges, control system and emergency switch.</p>
Levelling Jacks	<p>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</p>
Foot Clamp	<p>Hydraulic operated Rod clamp has gripping range of NQ HQ PQ sizes</p>
Water / Foam Injection Pump	<p>Hydraulic operated water injection triplex pump with necessary fittings, pressure regulator, flow regulator, flow meter, check valve and suction filter are provided</p> <p>Maximum Flow : 140 lpm</p> <p>Maximum Pressure : 69 bar</p>
Winch	<p>Main winch : 10 ton Line Speed : 34 m/min</p> <p>Wire line winch : 2 ton with 800 m rope (6 mm) Line Speed : 72 m/min</p>
Additional Fitments	<p>Spin case, mines safety features</p>





User Manual	Manual for Operation, Maintenance and Spare Parts
Mounting Option*	Crawler / Truck / Skid

**Combinations will vary according to our Design feasibility*







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