



## Technical Specification

### PRD Core 300



**Miners preferred surface core drilling rig capable to drill 300 m of NQ size. High speed top drive rotary head can do HQ, PQ, NQ & BQ drill sizes.**

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





<b>Application</b>	Surface Exploration
<b>Capacity</b>	PQ : 50 m
	HQ : 150 m
	NQ : 300 m
<b>Drilling Angle</b>	45° to 90°
<b>Prime Mover*</b>	Rig hydraulic system is powered from Deck engine 52 hp
<b>Platform Structure</b>	Heavy I and C section welded steel structure covered with 5mm chequered plate
<b>Mast Assembly</b>	Strong structural steel twin tubular box type construction, Foldable mast
	Mast Overall Length : 7500 mm
	Rotary Head Travel : 4000 mm
	Rod handling : 3 m
	Rod pull out : 6 m
<b>Mast Raising Cylinder</b>	Mast is raised and lowered by single hydraulic cylinder
<b>Mast Dumping</b>	Mast is provided with dumping arrangement for angle drilling
<b>Feed System</b>	Single hydraulic cylinder with 1:1 ratio
	Pull Up Force : 6300 kgf
	Pull Down Force : 3700 kgf
	Pull Up Speed : 21 m/min
	Pull Down Speed : 42 m/min
<b>Rotary Head Assembly (Top Head Drive)</b>	Rotary head with sliding option for wireline winch usage
	Torque : 565 - 4000 Nm
	Speed : 125 - 1000 rpm





<b>Hydraulics</b>	1 x variable displacement pump for Feed and Rotation & winches 1 x Fixed displacement pump for water pump 1 x Fixed displacement pump for Hydraulic cooler
	Maximum System Pressure : 3480 psi (240 bar)
	Hydraulic Oil Cooler : 70 gpm
	Hydraulic Tank Capacity : 300 litres
<b>Control Panel</b>	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.
<b>Levelling Jacks</b>	4 x Lug mounted Hydraulic levelling jacks are provided for quick setting and levelling of the drill rig. Locking check valves for safety with adequate capacity to withstand load.
<b>Foot Clamp</b>	Hydraulic operated Rod clamp has gripping range of PQ, HQ, NQ sizes
<b>Water / Foam Injection Pump</b>	Hydraulic operated water injection triplex pump with necessary fittings, pressure regulator, flow regulator, flow meter, check valve and suction filter are provided
	Maximum Flow : 35 lpm
	Maximum Pressure : 50 bar
<b>Winch</b>	Main winch : 3 ton Line Speed : 45 m/min
	Wire line winch : 0.5 ton with 350 m rope (6 mm) Line Speed : 70 m/min



<b>Additional Fitments</b>	Mine safety features
	Spin cage
<b>User Manual</b>	Manual for Operation, Maintenance and Spare Parts
<b>Mounting Option*</b>	Crawler / Truck / Skid

*\*Combinations will vary according to our Design feasibilitys*







**Happy Drilling forever with PRD Rigs**

