



## Technical Specification

### PRD HC 500



**A perfect choice of small hydraulic rig for quarry drilling application with 1500 kgf pull down, Jack less rig with dust collector and water injection.**

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





<b>Application</b>	Drilling for blasting in Quarries Dimension stone industry
<b>Capacity</b>	Hole Diameter : 29 – 125 mm (3 ½" - 5") diameter Maximum Depth : 15 m Estimated machine weight : 4750 kg
<b>Drilling Angle</b>	Vertical / Horizontal
<b>Drilling Method</b>	DTH
<b>Prime Mover*</b>	Suitable Deck engine 55 hp
<b>Mast Assembly</b>	Strong structural steel twin channel construction Mast Overall Length : 5000 mm Rotary Head Travel : 4280 mm Drill rod size : 2 ½" OD drill pipe with 3 meters length
<b>Hydraulic cylinders</b>	Hydraulic cylinders provided for Oscillation, Boom raise, Boom swing, Mast raise, Mast swing, Mast dumping and Break out operations.
<b>Feed System</b>	Pull Up Force : 1500 kgf Pull Down Force : 1500 kgf Pull Up Speed : 30 m/min Pull Down Speed : 30 m/min
<b>Rotary Head Assembly (Top Head Drive)</b>	Fabricated steel body with spur gear reduction and oil bath lubrication type gearbox along with top air entry and spindle with rope thread connection Maximum Torque : 1800 Nm Rotation Speed : 0 - 50 rpm Fine controlled





<b>Hydraulics</b>	2 x fixed displacement pump for feed and rotation, Auxiliary operation
	Maximum System Pressure : 2030 psi (140 bar)
	Hydraulic Tank Capacity : 160 litres
<b>Control Panel</b>	Centralized control panel is at front left-end of the equipment for convenient view of drill table provided with all necessary gauges, control system and emergency switch.
<b>Airline Lubricator</b>	A positive acting venturi type inline lubricator is provided for injecting oil to the down hole hammer
	Tank capacity : 3 litres
	Working pressure : 350 psi
<b>Recommended Air Compressor*</b>	<u>Make</u> ELGI / Atlas Copco / Doosan
	<u>Compressor capacity</u> 380 cfm - 200 psi / 450 cfm - 150 psi
<b>Additional Fitments</b>	Night Lights, Tools box
<b>User Manual</b>	Manual for Operation, Maintenance and Spare Parts
<b>Mounting Option*</b>	5 ton Crawler
	Tramming speed : 2.5 km/hr
<b>Optional Attachments</b>	Dust collector
	Mining Safety Features
	Centralised lubrication system
	Dust suppression system

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







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