



COREMAN1500



Core drilling machines are used in subsurface geological studies to investigate underground layers, which mainly consist of rock and soil formations. Core drilling plays a significant role in identifying, analyzing, and examining these materials, offering considerable savings in both time and cost. In response to the growing demand for exploration in the mining sector and the essential need for drilling in mineral exploration areas, Hafar Sanat Binaloud Company has designed and manufactured the Coreman1500 core drilling rig, capable of reaching depths of up to 1500 meters, with unique and advanced features.

Features of the COREMAN1500

Utilization of a powerful Cummins engine to ensure reliable after-sales service availability.

Implementation of a dual cooling system for hydraulic oil, tailored to accommodate diverse climatic conditions.

Integration of a 15 kVA hydraulic generator to supply emergency power in sensitive on-site working conditions.

Construction of a reinforced chassis with integrated, bent, and cut steel plates of optimal thickness to ensure long-term structural durability, along with Caterpillar-pattern track chains for enhanced balance and mobility on steep mining slopes

Use of premium Japanese main pumps to provide high durability and extended operational lifespan

Deployment of a remote control system for track movement, enabling the operator to maintain full visibility around the machine when navigating narrow and confined mining pathways



Technical Specifications table			
	Drilling Depth Capacity		
DRILLING DEPTH	BQ	M	1800
	NQ		1500
	HQ		1000
	PQ		500
Spindle	Rotation speed	RPM	150-1300
	Torque	N.m	700-6000
	Pulling Capacity	Ton	30
	Feed Force	Ton	10
Engine	Power	Kw/HP	194/260
	Rotation speed	RPM	2200
	Model	Cummins	6CTA8.3-C260
Hydraulic pump	Model	Kawasaki	
First Pump	Maximum flow rate	L/min / Pressure	220/32 mpa
Second Pump			50/25 mpa
Third Pump			30/5 mpa
Fourth Pump			
Mast	Mast Length	m	9
	Working Angle	Degree	45-90
	Two speed mast travel	mm	3600
Main Winch	Hoist power	KN	120
	Hoist speed	m/min	35
	Wire rope diameter	mm	24
	Wire rope capacity	m	30
Wireline Winch	Hoist power	KN	15
	Hoist speed	m/min	200
	Wire rope diameter	mm	6
	Wire rope capacity	m	1500
Mud Pump	Maximum flow rate	L/min / Pressure	250/9 mpa
Crawler	Maximum Speed	km/h	2.5
	Gradeability	Degree	30
Dimensions and Weight	Transport dimensions	mm	L6300*W2200*H2400
	Weight	Ton	10.5
Rod holder	Maximum Diameter	mm	210
	Loud holding capacity	kg	18000
Outriggers jacks	Side clearance	mm	2400
	Ground clearance	mm	1500
Optional Features	Hydraulic Generator	KW	15
	Toolbox dimensions	L1000*W300*H1000	
	Hydraulic radiator	L/min	2*(70*100)
Hydraulic rod breaker	Rotation speed	RPM	30-55
	Breakout Diameter	mm	160



Operating Description of the COREMAN 1500 Exploration Drill Rig

The COREMAN 1500 drilling rig is a custom-designed and engineered model by Hafar Sanat Binaloud Company, developed based on comprehensive technical assessments and on-site evaluations at various exploration drilling projects across the country.

Given the common issues identified in existing drilling rigs within the domestic market, this machine has been carefully developed to address those challenges. The COREMAN 1500 integrates essential technical features and key engineering specifications required for a complete and efficient core drilling operation.



HAFAR SANAT BINALOUD

**Design and manufacturing of various
drilling machines and equipment.**

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