



SINOCOREDRIILL

Jiangsu Sinocoredrill Exploration Products





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Main Performance Parameters of CR-15

- Self contained operator panel with manually operated hydraulic control valves.
- 12 ton capacity mainline hoist
- 25 ton pullback with 6 m rod pull, direct-coupled feed cylinder with 3.7 m stroke
- 0-90 degree mast angle capability
- Hydraulic Chuck with 243 kN holding capacity
- Hydraulic powered rod clamp with BQ rod to HWT casing jaw sizes
- PQ foot clamp, spring close / hydraulic open for failsafe operation
- Individual cooling system, Centralized operation panel

Specification of Main Machine

Diesel Engine	Model/ Displacement		WP6G240E330 (EU Stage IIIA)/ 6.7L	
	Power/ Rated RPM		176 kW (240HP)/ 2200rpm	
Drilling Capacity	BQ	2050 m	HQ	1350 m
	NQ	1650 m	PQ	950 m
Drill Head	Rotation Motor		Two-speed Hydraulic Motor	
	RPM		Three Shifts Step-less Change : 0-1250 RPM	
	Head Opener		600 MM	
	Hydraulic Chuck(PQ)		Hydraulically opened Axial Holding Capacity of 243000 N	
	Max. Torque		6200 N·m	
	Hold Diameter		121 mm	
	Max. Lifting capacity of Spindle		235 kN	
	Max. Feeding Power		80 kN	
Capacity of Main Hoist	Hoisting Speed (single wire)		0-65 m/min(bare drum)	



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	Hoisting force (single wire)	120 kN
	Steel Wire Diameter	20-22 mm
	Steel Wire Length	45 m
Capacity of Wireline Hoist	Hoisting Force (single wire)	15 kN(3372 lbf) (bare drum)
	Steel Wire Diameter	6-8 mm
	Steel Wire Length	2200 m
Mast	Mast Height	9.5 m
	Drilling Angle	45° off horizontal to 90°vertical down
	Feeding Stroke	3700 mm
	Slippage Stroke	1000 mm
	Feed Pull	25 ton
	Feed Thrust	9 ton
	Rod Pull	3m or 6m(9.84feet or 19.68feet)
Mud Pump	Output volume	250 L/min
	Discharge pressure	8.0 Mpa
Foot Clamp	Clamping Scope	55.5-118 mm through hole Φ 165mm
Others	Weight	10.50 ton
	(L × W ×H)	5880×2240×2480mm
	Transport Dimensions	
	Transport Way	Steel Crawler



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Details of the major imported components of CR-15

No.	Item description	Manufacturer	Qty	Remarks
1	Rotation Motor	Germany rexroth 	1	A6VM107
2	Hydraulic pump	Danfoss Co. LTD 	3	
3	Main control valve	Danfoss Co. LTD 	2	PVG100、PVG32-2
4	Main winch motor reducer	Germany rexroth 	1	
5	Secondary winch motor	Eaton Corporation of America 	1	
6	Track drive motor	Korea jjin hydraulic co. LTD	2	
7	Elastic coupling	Germany KTR 	1	
8	Diesel engine		1	



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9	Mud Pump		1	
10	Hydraulic Clamp	Self produce	1	
11	Foot Clamp	Self produce	1	
12	Operating platform	Self produce	1	
13	Crawler chassis	Self produce	1	
14	Mast (telescopic)	Self produce	1	
15	Drill Head	Self produce	1	
16	Upper and lower centralizer	Self produce	2	BQ,NQ,HQ
17	Jaw of Drill Head		2	BQ,NQ,HQ
18	Jaw of Foot clamp		2	BQ,NQ,HQ
19	Protection device	Self produce		
20	Auxiliary support		1	
21	Accessories of Machine		1	

The figures in these tables have been calculated, based on field experiences, and may be reasonably expected. Actual drilling capacity will depend on in-hole tools and conditions, drilling techniques and equipment used.