

FORWARD RC4 Water Well Drilling Rig

The main features

- The maximum diameter of drilling hole – 420 mm
- The maximum hole depth – 400 m
- 3 types of drilling: mud drilling, air drilling, DTH drilling
- Maximum hoist capacity 20 t
- Maximum spindle torque 11 000 Nm
- Applicable drill rod range 2-5 inch
- Full hydraulic drive, smooth and reliable operation for each drilling
- American hydraulic system
- Equipped with reliable clamping system, which can easily be adjusted for height
- Fast feed and lifting function reduce the time of drilling
- The telescopic mast ensures the reliability of drilling
- Crawler chassis guarantees high operation quality

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Drilling methods:

- Direct/Reverse Circulation Mud Drilling
- Direct/Reverse Circulation Air Drilling
- DTH Drilling



Telescoping mast, possible to use 6.1 m length drill rod



Adjusting angle of mast 0-90° Easy to load the drill rod

The construction of power head helps to avoid damage of the rods' thread



Loading-by-self system



American Hydraulic system



Clamping system can be adjusted for height



The capacity of hoist is 2 ton.



4 bright LED floodlights for night work.



Standard excavator chassis with South Korea imported drive motor increase the flotation of drill rig. Can be equipped with rubber track.



Open/close of drilling fluid supply is controlled by hydraulic cylinder.

Technical characteristics

Track		
Moving Speed	Low speed	3 km/h
	High speed	4.5 km/h
Diesel engine		
Model	CUMMINS 4BT turbocharged	
Power	97 kW	
Type of cooling	Water cooling	
Rotation speed	2500 rpm	
Cylinders quantity/capacity	4/3.9 L	
Fuel tank capacity	220 L	
Drilling capability		
2-7/8 in drill rod	500 m	
3-1/2 in drill rod	400 m	
4-1/2 in drill rod	300 m	
Mast		
Mast Height (fully extended)	10.9 m	
Mast height (fully retracted)	6.6 m	
Power head distance (stroke)	7100 mm	
Applicable drill rod	Diameter 2 in to 5 in, Length 6.1m	
Push and pull ability of power head		
Maximum hoist capacity (up)	20 kN	
Maximum hoist capacity (down)	10 kN	
Maximum hoisting speed	30 m/min	
Hoisting speed	Full load 15 m/min	
Rotation		
Gears	2	
Low speed	0~60 rpm	11 000 Nm
High speed	0~120 rpm	5 500 Nm
Adjusting angle of mast	0-90°	
Hoist crane at the top		
Maximum hoist capacity	20 kN	
Diameter of steel wire rope	8 mm	
Length of steel wire rope	45 m	
Untwisting system		
Applicable drill rod	2 in to 5 in	
Maximum torque	40 000 Nm	
Dimensions and weight		
Dimensions in operation	4.3*2.8*10.9 m	
Dimensions in transportation	6.6*2.2*2.9 m	
Weight	13 500 kg	



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