



宣化金科钻孔机械有限公司
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JRC500 RC Drilling Rig



Introduction

JRC500 reverse circulation drilling rig is a new multi-purpose, high-efficiency, environmental protection, multi-track-type rig, which uses the latest foreign gas lift reverse circulation drilling technology, rock dust can be effectively collected through a dust collector to avoid environmental pollution. You can also collect slagging cyclone separator can be used in geological prospecting department of sampling analysis. It is a geological exploration drilling, drilling wells, monitoring wells, ground source heat pump air-conditioning and other deep hole of choice for equipment.

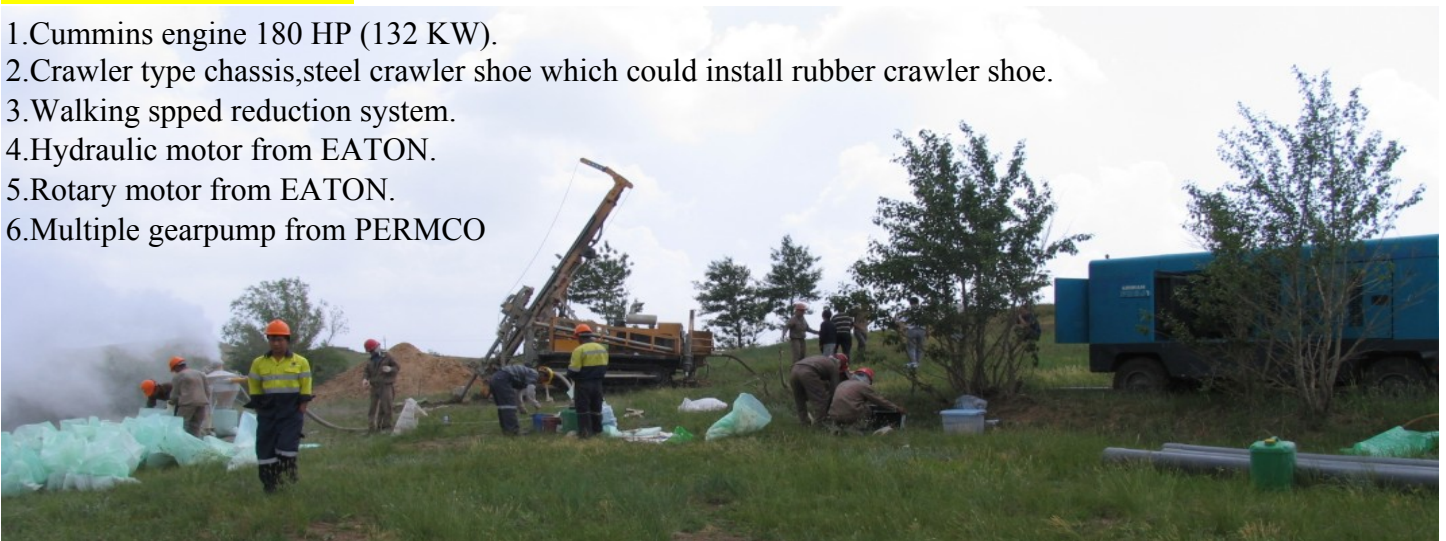
The drilling rig can be used in a variety of compressed air on the ground hole reverse circulation drilling. The lifting system, guide compensation, drill pipe loading and unloading, rotation and feed, legs, winch, walking and other system to achieve all of the hydraulic system to significantly reduce the labor intensity and improve the efficiency and quality of construction.

Characteristics

- 1: Diesel engine mounted hydraulic system, all the system include the walking, rotation, feed, lifting, Leg, lifting, compensation system, rod change is hydraulic.
- 2: Reverse circulation system working together with DTH technology, air compressor provide pressed air for impact and dust collect.
3. During working, use the reverse circulation hammer, double tube, pressed air enter between two tube and dust out from the inner tube.
4. Also it's available to positive circulation use normal drilling tool.
5. The working system composed of feed system, guide (mast), rotary head, compensation system, centralizer, rod exchange system, winding and so on.
6. Axes pressure, feed speed, rotary speed is adjustable.
7. The walking system is a self-walking system, convenient for moving, which could install four hydraulic leg, when load on truck, it doesn't need hiking up, it can load on truck directly.
8. Four hydraulic leg use for keep the balance of the drilling during working.
9. The sub winding could hoisting Max. 1 ton drilling tool, it also could help to rod change.
10. The guide (mast) could working in 45°-90°, guide have a extension system, which ensure the guide could moving toward the drilling surface, to keep the balance of the guide.
11. Gradienter, angle table and centralizer to ensure the precision accuracy of hole.
12. The air system have a special lubrication system to lubricating the hammer to extend the service life.

MAIN COMPONENTS

1. Cummins engine 180 HP (132 KW).
2. Crawler type chassis, steel crawler shoe which could install rubber crawler shoe.
3. Walking speed reduction system.
4. Hydraulic motor from EATON.
5. Rotary motor from EATON.
6. Multiple gearpump from PERMCO



Specification

1	Geology drilled				All kinds
2	Drilling Type				DTH & RC
3	Drill system and operation				Hydraulic
4	Hole Diameter	mm			Φ90—Φ450
5	Hole Depth	m			500
6	Rotation Torque	NM			14000
7	Rotation Speed	rpm			0-40 1st Gear
					0-80 2nd Ger
8	Drill pipe diameter	mm			89/102/114
9	Drill pipe length	mm			3000
10	Max. Feed Speed	M/min			18
11	Max. Lifting Speed	M/min			5-20
12	Feed Stroke	mm			3400
11	Max. Lifting force	T			28
12	winch(Optional)	T			4
13	Lifting force of hoist	T			1.5
14	Lifting height of tool winch	m			100

Engine

15	Diesel Engine type		CUMMINS		
16	Rated Horse power	HP			180
17	Electrical System	Volt			24

Compressor required

18	Compressor Type		Rotary Screw/Movable		
19	Pressure Required	Mpa			1.05—4.5
20	Air consumption	m ³ /min			16—60

Dimension

36	Net Weight	T			13
37	Shipping Length	mm			7550
38	Shipping Width	mm			2260
39	Shipping Height	mm			2700
40	Ground Clearance	mm			300
41	Volume of Flow	mm			200

Attachment partlist of JRC500

NO.	NAME	CODE	UNIT	Q'TY
1	Extension Pin Rod		pc	1
2	Top Pin Rod		pc	1
3	Hoisting swivel elevator		pc	1
4	Hoisting joint		pc	1
5	Wire rope hoisting swivel elevator		pc	1
6	Straight wrentch		pc	1
7	Curve wrench		pc	1
8	Backing pin		pc	2
9	Protection cover		pc	1
10	Inner hole cleaner		pc	1
11	External hole cleaner		pc	1

12	Bend-pipe cover plate		pc	2
13	Air seal	HZ550-0019	pc	4
14	Cleaning air pipe	M22X1.5 – 6M	pc	1
15	Main air pipe	M64X2-20M	pc	1
16	Starting key		pc	1
17	Engine manual		pc	1
18	Drill rig manual		pc	1
19	Filter core for air cleaner		set	1
20	Open ended wrench		set	1
21	Inner hexangular wrench		set	1
22	Specialtool for grease fitting		set	2
23	Grease gun		set	1
24	Seals attached to machine		set	1

PICTURE

