



宣化金科钻孔机械有限公司
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JRC200 RC Drilling Rig



Introduction

JRC200 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.

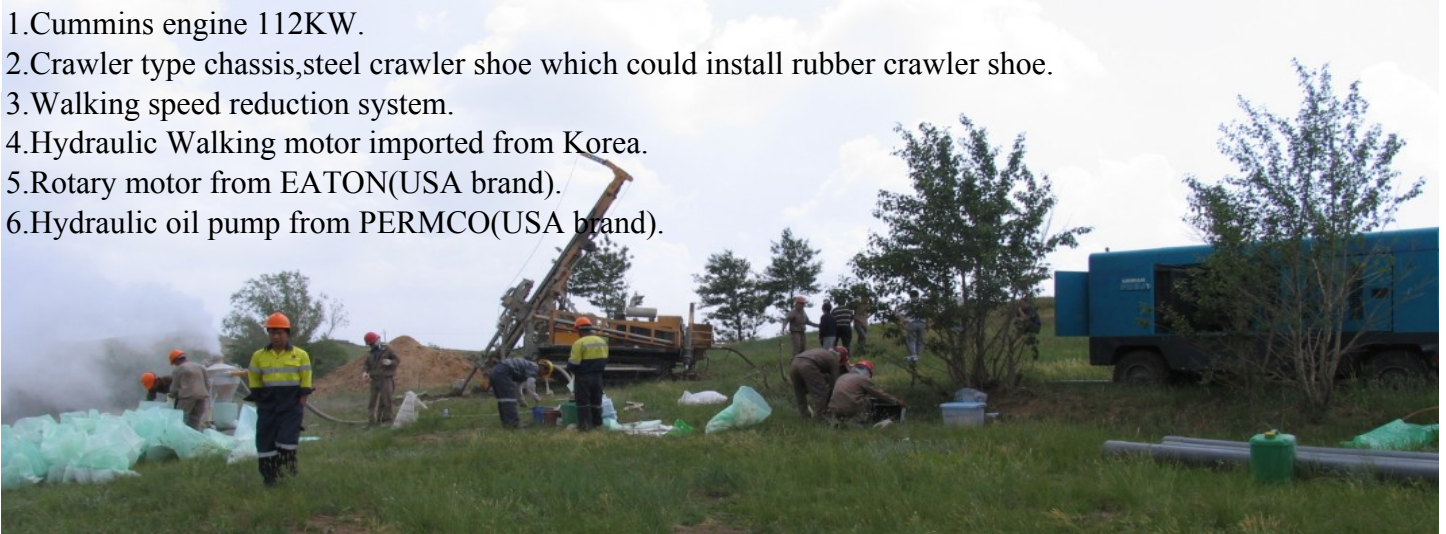
The drilling rig can be used in a variety of compressed air on the ground hole reverse circulation drilling. The lifting system, guide compensation, drill pipe loading and unloading, rotation and feed, legs, winch, walking and other system to achieve all of the hydraulic system to significantly reduce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

1. Cummins engine 112KW.
2. Crawler type chassis, steel crawler shoe which could install rubber crawler shoe.
3. Walking speed reduction system.
4. Hydraulic Walking motor imported from Korea.
5. Rotary motor from EATON (USA brand).
6. Hydraulic oil pump from PERMCO (USA brand).



Specification

1	Geology drilled				All kinds
2	Drilling Type				DTH & RC
3	Drill system and operation				Hydraulic
4	Max.Hole Diameter	mm			Φ105—Φ350
5	Max.Hole Depth	m			300
6	Rotation Torque	N.M			8500
7	Rotation Speed(Forward rotation)	rpm			0-40 1st Gear
					0-80 2nd Ger
8	Rotation Speed(Reverse rotation)	rpm			40 1st Gear
					80 2nd Ger
9	DTH Drill pipe diameter	mm			76/89/102/114/127
10	RC Drill pipe diameter	mm			102/114/127
11	Drill pipe length	mm			3000
12	Max. Feed Speed	M/min			5-30
13	Max. Lifting Speed	M/min			5-18
14	Feed Stroke	mm			3400
15	Max. Lifting force	T			12
16	Lifting force of Main winch(Optional)	T			4
17	Lifting force of tool winch	T			1.5
18	Lifting height of tool winch	m			7.5

Engine

19	Diesel Engine type		CUMMINS		
20	Rated Horse power	Kw			112
21	Electrical System	Volt			24

Centralizer

22	Type				Open
23	Diameter	mm			300

Hydraulic Clip

24	Clamping Force	KN			157
25	Clamping Rod Diameter	mm			76-219

Dimension

26	Net Weight	T			13
27	Shipping Length	mm			7550
28	Shipping Width	mm			2260
29	Shipping Height	mm			2700
30	Hydraulic Leg Feed Stroke	mm			600
31	Gradeability	°			21
32	Ground Clearance	mm			300
33	Volume of Flow	mm			200

Attachment partlist of JRC200

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 wrench		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

