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JKS200

SPECIFICATION

DRILLING SPECIFICATION

1	Rock Hardness	F=6-20	
2	Hole Diameter	mm	Φ90—Φ300
3	Hole Depth	m	200
4	Max horizontaldrilling	m	3.38

ROTARY HEAD

5	Rotation Torque	Nm	5400
6	Rotation Speed	rpm	0-100
7	Rotation Power	KW	18.34

FEEDING SYSTEM

8	Max. pushing power	KW	3.36
9	Max. Lifting force	N	80000
10	Max. Feed Speed	M/min	17
11	Max. Lifting Speed	M/min	17

BOOM&GUIDE

15	Max Dump of Guide	°	95°
16	Feed Stroke	mm	3400

ENGINE

17	Manufacturer	CUMMINS	
18	Rated Horse power	Kw	70
19	Electrical System	24	Volt

MUD PUMP (According customer's project)

20	Model	BW200	
21	Type	Horizontal	
22	Cylinder quantity	2	
23	Cylinder diameter	mm	80:65
24	Travel (mm)	mm	85
25	Reciprocating times	min-1	145
26	Pressure	Mpa	4.0; 6.0
27	Displacement	L/min	200; 125
28	Power	KW	11
29	Speed	r/min	530
30	Pitch of belt pulley	mm	385
31	Belt pulley	mm	B type, five solts
32	Power(by client's request)	295 type-diesel or motor	
33	Suction pipe dia.(mm)	mm	Φ65

34	Scupper pipe dia.	mm	Φ37
35	Dimensions(L×W×H)	mm	1050×630×820
36	Weigh	kg	300

REQUIRED AIR COMPRESSOR

37	Compressor Type	Rotary Screw/Movable	
38	Compressor Pressure Required	Mpa	1.2—3.0
39	Air consumption	m ³ /min	11—35

GENERAL SPECIFICATION

40	Max. Travel Speed	Km/h	2.5
41	Gradeability	°	21°
42	Net Weight	kg	7100
43	Shipping Length	mm	6000
44	Shipping Width	mm	2100
45	Shipping Height	mm	3200
46	Ground Clearance	mm	300
47	Guide Extension	mm	1400

COOLING SYSTEM

48	Volume of Flow	L/Min	200
49	Rated Pressure	Mpa	1.6

DUST COLLECTOR

50	WET		OPTIONAL
51	DRY		OPTIONAL

INTRODUCTION



JKS200® crawler deep hole drill is a new, highly-effective, energy-saving and multi-functional hydraulic drill and it is specialized in drilling hole for rock blasting, well, monitoring well, geothermal air conditioning hole, grouting hole of the hydropower cofferdam, grouting hole for dyke seepage control and grouting hole for base enforcement, surface mining, anchorage, national defense project and other drilling operations, in addition, it adopts the process of down-hole impact and breast wall drilling with casing following, which can effectively solve the technical problem of difficult hole-forming in the unconsolidated layer. The drill is equipped with hydraulic motor rotation with a high power, propulsion and lifting of cylinder and down-hole impact with high blast pressure, to realize high effectiveness of drilling footage and low energy consumption.



CHARACTERISTICS

- 1: The chassis is driven by highly-efficient pneumatic motor with powerful traction. Each track is driven independently by air motor with enclosed gear drive, the gradeability arrives 35° with a compressor, or 50° alone.
- 2: Hydraulic track oscillation is more suitable for positioning drilling machine during drilling..
- 3: The carriage with rollers provides for minimal wear to the drill guide.
- 4: Equipped with two hydraulic clamps is easy to load and unload drilling rods and improve efficiency.
- 5: The special compensation device makes a full production of drill rod threads.
- 6: The Hydraulic auxiliary functions are easy and efficient for guide extension, boom swing, boom lift, guide tilt and guide dump.
- 7: Competitive in price, low cost of maintain.
- 8: Optional dust in wet and dry.

MAIN COMPONENTS



Diesel Engine: The drill was equipped with CUMMINS® 70kw diesel engine, which has reliable performance and strong power, meanwhile, the suction system of diesel engine has safe and reliable air filter device to make sure that the diesel will absorb fresh air.

Oil Pump: Imported hydraulic oil pump has steady performance and long service life.



Rotary Head Assembly: Equipped an EATON® hydraulic rotary motor, the Rotary Head Assembly speed reduced by two planetary gear, the output torque is 4000N/m, rotary speed 0-100rp/m, Rotary with impact cushioning capacity, with the ability to reduce the impact of drilling reaction forces transmitted to the rotary motor, to reduce parts wastage, simple internal structure, easy maintenance. rotary motor equipped YX ring, and thrust needle roller bearings equipped U.S. IR OEM product, increase the capability and life.

Drill Guide Assembly: Heavy structure drill guide with Manganese steel rail trim & Multiple roller designing, make the guide can withstand high torque, resistance to deformation, also can greatly extend the life of skateboarding and guide, and effectually guarantee the various drilling angle.



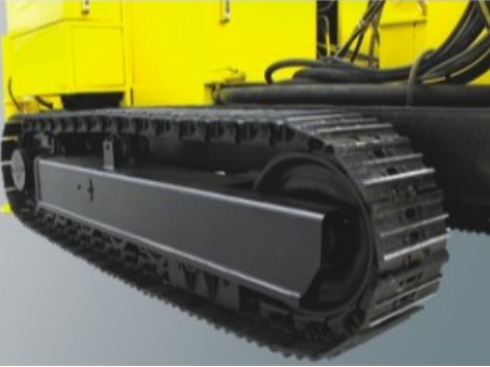
Feed Assembly: Using Worm Gear Speed Reducers and starter motor, to ensure the feed and Lifting Power, chain driven by the heavy-duty plunger starter motor, providing 80000N lifting force & adjustable impelling power.



Hydraulic Pump Station: Vane Air Motors and hydraulic pump are core parts of hydraulic Pump Station, which provide sufficient driving force to the hydraulic cylinder to ensure the accurate orientation capability of boom assembly.

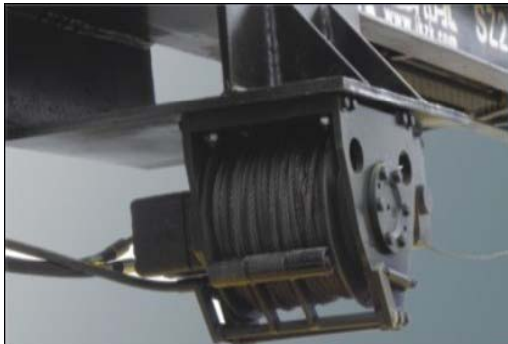


Operating System: Operating System equipped in the back of rig, easy drill operator to observe and centralized control the machinery and hydraulic system, the pneumatic operating system is convenient and safety, could be onehanded control while traveling.



Traveling System: Each crawler were all powered by imported high power hydraulic motor, driven by a closed-end reducing gear, brake through the spring brake system, air clutch, same power of positive and negative direction, the gradeability arrives 35° while drag a compressor.

Crawler: Each side of frame equipped an oscillating cylinder, hick powered the crawler can up-down floating in the range of 15 degrees, which ensure the keep balance while the drill is walking and working, advanced plate designing make the crawler have high grip capability.



Hydraulic Winch

The hydraulic winch is capable of hoisting and auxiliary tools within 800kgs



Hydraulic Jack Leveling

The Hydraulic Jack Leveling could quickly keep the drill in balance to maintain it working stability and drilling verticality.



Mud Pump

BW-200 Horizontal type double-cylinder double reciprocating pump, It applies to The engineering drilling bedrock drilling and geophysical exploration provide drilling fluid.

Characteristics: Small volume, light weight, and is more suitable for the geological prospecting. Two diameter cylinder 80 cylinder suitable for steel shot , alloy drilling into 600 metres normal use, 65 cylinder suitable for steel shot , alloy when drilling rig 1000 metres normal use.



PRODUCTS PICTURE

