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## JKS300 Track Mounted Water Well Drilling Rig



### Introduction

JKS300 Multi-functional track mounted water well drilling rig is a efficient,multi-function full hydraulic water well drilling rig.It is high efficiency because of having a larger torque of the turntable and is mainly used for water well in industry and agriculture, national defense building foundation, geological exploration, geothermic well and other foundation working, it is popular at home and abroad.

JKS300 crawler mounted drilling rig can drilling in all kinds formations by mud drilling in soft formation and air DTH hammer in rock drilling,DTH Hammer is applied in rock drilling, slag is discharged by air pressure and the offstage efficiency is ten times than traditional rotary drilling.

JKS300 deep water well drilling rigs, in cutting drilling or rotary drilling can be operated in unconsolidated layer, and the slag can be discharged under by mud, the impact drilling operation can also be adopted and slag can be discharged by pressure air, the hydraulic water well drilling rig suitable for drilling complicated geological conditions.

### Characteristics

- 1.The drilling rig can use air DTH Hammer drilling and mud drilling.
- 2.Centralized control console is suitable for each manipulation and control. Rapid pulling and lifting reduce the auxiliary time and enhance the work efficiency.
- 3.The main drive system, the transfer case, gearbox, double-winch unit, mud pump, turntable,drilling tower, feed system are set up on the chassis.

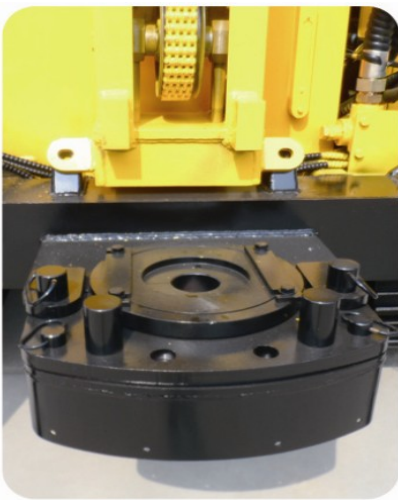
- 4.It's a hydraulic rotary drilling rig with directional circulation. It can equipped with BW250 mud pump which adopts the slurry as the washing fluid and can drill on clay, sand and rock if it is equipped with suitable drilling bit.
- 5.The power of drilling rig comes from a Cummins engine,102kw Cummins engine drives the large displacement high pressure plunger pump and it is characterized by powerful dynamic and stable performance.
- 6.The rotary head,have two gear,rotation speed is 0-80 and160rpm stepless adjustment and the rotary torque is 7500Nm.
- 7.The pulling force can be regulated and controlled, which adapt the machine to deep hole drilling.
- 8.It can set up a generator which is convenient to welding or illuminate for work at night.
- 9.Main winch are available on the rig so it is high efficiency when the rig drill on mud rock and on the weathering formation.
- 10.The main drive of rig is hydraulic and the four landing legs and drilling tower are hydraulic controlled. Transfer case and mud pump clutch system are also hydraulic operated.
- 11.The tools winch winch is used for auxiliary lifting and casing,optional main winch force of 4T, rope length of 100m and 8m lifting height.
- 12.The Hydraulic auxiliary functions are easy and efficient for guide extension, boom swing, boom lift, guide dumping.
- 13.Competitive in price, low cost of maintain.

## Specification

1	Geology drilled		All kinds
2	Drilling Type		DTH & Mud Rotary
3	Drill system and operation		Hydraulic
4	Hole Diameter	mm	Φ105—Φ350
5	Hole Depth	m	300
6	Rotation Torque	Nm	7500
7	Rotation Speed	rpm	0-80 1st Gear
			0-160 2nd Ger
8	Drill pipe diameter	mm	89/114
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	N	120000
12	Lifting force of Main winch(Optional)	T	4
13	Lifting force of hoist	T	1.5
14	Lifting height of tool winch	m	6
<b>Engine</b>			
15	Diesel Engine type	CUMMINS	
16	Rated Horse power	Kw	102
17	Electrical System	Volt	24
<b>Compressor required</b>			
18	Compressor Type	Rotary Screw/Movable	
19	Pressure Required	Mpa	1.2—3.5
20	Air consumption	m <sup>3</sup> /min	16—40
<b>Mud Pump(Optional)</b>			
21	Type	Hydraulic	
22	Model	BW350	
23	Stroke	mm	100
24	Displacement	L/Min	250
25	Discharge pressure (Mpa)	Mpa	2.5
26	Suction tube diameter	mm	85

27	Discharge pipe diameter	mm	51
28	Foam pump		Optional
<b>Hydraulic Welder(Optional)</b>			
29	Mnufacturer		Dynaset
30	Welding current	A	60-250
31	Hydraulic Min.oilflow	L/min	42
32	Nom/Max Pressure	Bar	190/210
33	Voltage	V	110/220VDC
34	Power	Kw	1or2
35	L*W*H	mm	390*190*230
<b>Dimension</b>			
36	Net Weight	T	9000
37	Shipping Length	mm	6100
38	Shipping Width	mm	2200
39	Shipping Height	mm	3200
40	Ground Clearance	mm	300
41	Volume of Flow	mm	200

## Picture



**Centralizer**



**Rotary Head**



**Diesel Engine**



**Operation Panel**



**Winch**



**Crawler**