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CL351 Crawler Pneumatic DTH Drilling Rig



INTRODUCTION

CL351 crawler pneumatic DTH drilling rig powered by air compressor, the drilling rig is equipped with a high power pneumatic motor, the heavy-duty hydraulic drill arm and the main parts are all imported from famous international brands, which guarantee the reliable quality of the drill, especially realize much less energy consumption of rolling fraction than that of sliding fraction and make the wear of sliding framework be lower.

SPECIFICATION

1	Rock Hardness	F=6-20	
2	Hole Diameter	90-165	mm
3	Hole Depth	30	m
4	Air Pressure	1.05-2.46	Mpa
5	Air consumption	17-21	m ³ /min
6	Max swing of guide	Lift50 Right35	°
7	Max dump of guide	180	°
8	Max swing of boom	Lift 45 Right45	°
9	Max dump of boom	Up 60 Down19	°
10	Rotation Speed	0-100	rpm
11	Rotation Power	18.34	kw

12	Rotation Torque	2510	N.m
13	Max horizontaldrilling	3.38	m
14	Gradeability	35	°
15	Propulsive force	13620	N
16	Pushing power	3.36	kw
17	Outside Dimensions (L×W×H)	5900×2210×1470	mm
18	Driving power	8.8×2	kw
19	Traveling Speed	3	km/h
20	Feed Stroke	3660	mm
21	Net weight	5000	kg
22	Drill Hammer	DH-4 QI-40 DHD340 DHD350Q DHD360	
23	Dust	Wet (Optional)	

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 COMPONENT

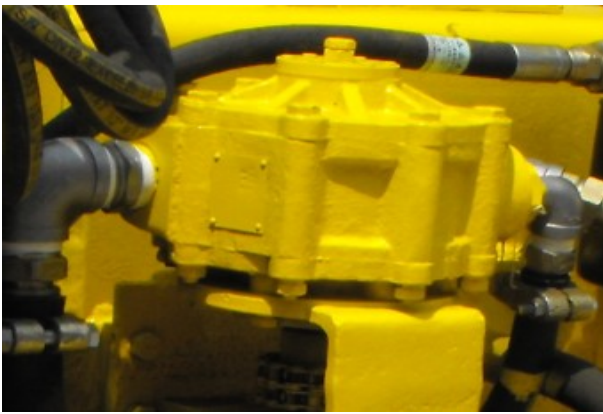


Rotary Head Assembly:The Rotary Head Assembly speed reduced by two planetary gear, the output torque is 2150N/m,rotary speed 0-72rp/m, Rotary with impact cushioning capacity,with the ability to reduce the impact of drilling reaction forces transmitted to the rotary motor, to reduce parts wastage, simple 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.

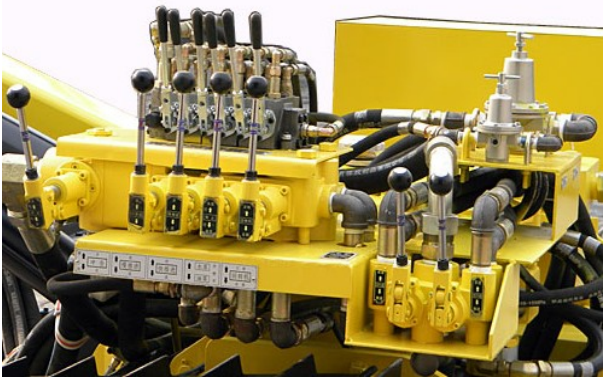
Drill Guide Assembly:Drill Guide Assembly:Heavy structure drill guide with Manganese steel rail trim & Multiple roller designing ,make the guide can withstand high torque, resistance to deformation,also can greatly extend the life of skateboarding and guide,and effectually guarantee the various drilling 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 13620N 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 one-handed control while traveling.



Lubricator: Lubricator provides drilling system(hammer & drill pipe), and various air motor lubrication, regular maintenance of the lubricator with dedicated lubricating Oil will improve the drilling efficiency and service life.



Traveling System: each crawler were all powered by air 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.

ATTACHMENT PARTSLIST

NAME	CODE	UNIT	Q'TY	REMARKS
Hammer	C76	pcs.	1	Free
Bit	76mm	pcs.	1	Free
Pipe	3m*60mm*5.5mm	pcs.	5	Free
Fork	CL351-000003	pcs.	1	Free
J-Wrench	CL351-000004	pcs.	1	Free
J-Wrench	CL351-000009	pcs.	1	Free
Reducer union	530000012	pcs.	1	Free
V-Joint	530000039	pcs.	2	Free
Pressure gage Reducer union	530000042	pcs.	1	Free
High-pressure grease gun(50*280)	850009400	pcs.	1	Free
O-ring(46.2*5.3)	855300462	pcs.	2	Free
High pressure air hose(38 II 20m)	872251400	pcs.	1	Free
Wind gauge	888311192	pcs.	2	Free
Axis of traction	530031201	pcs.	1	Free
Air motor vane	TMY18	pcs.	5	Free
Chain Easter	31.75	pcs.	2	Free
roller wheel	530020503	pcs.	2	Free
Axes	530020504	pcs.	2	Free
Axes	530020507	pcs.	2	Free
roller wheel	530020508	pcs.	2	Free
grease fitting(roller wheel)		pcs.	4	Free
Nut(roller wheel)	M20	pcs.	4	Free
Pin(roller wheel)		pcs.	4	Free
Tools	CL351	Set	1	Free
Instruction &Parts Manual	CL351	Set	1	Free
Quality Certification	CL351	Nos.	1	Free

DRILLING COVERAGE

