



## DRC300 Crawler Pneumatic Top Hammer Drilling Rig



### INTRODUCTION

DRC300 crawler pneumatic top hammer drilling rig powered by air compressor,the drilling rig is equipped with a high power pneumatic rock drifter, the heavy-duty 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

#### DRILLING SPECIFICATION

1	Rock Hardness	F=6-20	
2	Hole Diameter	mm	Φ50-80
3	Rod Length	m	3.66
4	Rod	T38	

#### ROCK DRIFTER

5	Weight without Shank rod	kg	180
6	Length without Shank rod	mm	1020
7	Cylinder diameter	mm	130
8	Postion Stroke	mm	80
9	Air consumption	m <sup>3</sup> /min	Approx.16
10	Main air hose connection	mm	50

#### DIMENSION&WEIGHT

11	Weight	kg	5100
12	Overall length	mm	5900
13	Overall width	mm	2210
14	Height	mm	1470
15	Track width	mm	2200
16	Ground clearance	mm	280

#### CRAWLER TRACTION

17	Ground pressure	kg/cm <sup>2</sup>	0.45
18	Traveling speed	km/h	3
19	Gradeability	°	35
20	Oscillating angle	°	15

### FEEDING SYSTEM

21	Max. Feed force	KN	30
22	Max. Lifting force	KN	30
23	Max. Feed Speed	M/min	15
24	Max. Lifting Speed	M/min	15

### HYDRAULIC SYSTEM

25	Max swing of guide	Lift50° Right35°
26	Max swing of boom	Lift 45° Right45°
27	Max dump of guide	180°
28	Max dump of boom	Up 60° Down19°
29	Max horizontaldrilling	3.38m
30	Propulsive Force	13620N
31	Pushing Power	3.36kw

### CHARACTERISTICS

- ◎ 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.
- ◎ Hydraulic track oscillation is more suitable for positioning drilling machine during drilling..
- ◎ The carriage with rollers provides for minimal wear to the drill guide.
- ◎ The special compensation device makes a full production of drill rod threads.
- ◎ The Hydraulic auxiliary functions are easy and efficient for guide extension, boom swing, boom lift, guide tilt and guide dump.
- ◎ competitive in price,low cost of maintain.
- ◎ Optional dust in wet and dry.

### MAIN COMPONENT



#### PNEUMATIC DRIFTER: Super high-speed drilling

The pneumatic drifter has a large bore (130mm) cylinder, providing a powerful drive for the rapid and reliable hammering action. A dependable and durable geared motor as well as an independent rotation device further ensure outstanding drilling performance. The drifter can withstand severe working conditions, and can also easily handle a wide range of jobs involving various kinds of rock. A variety of bits range in size from 50mm to 80mm is available.

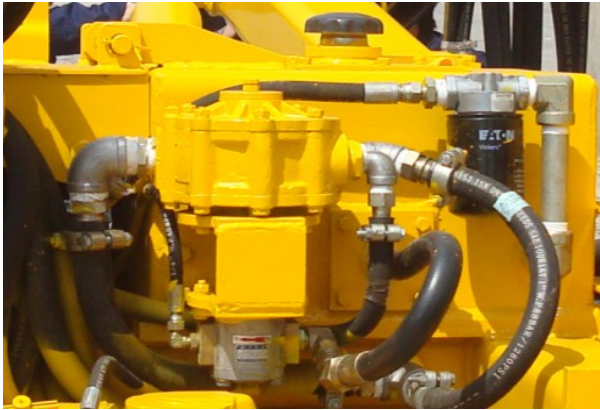


Operating System: Operating System equipped in the back of rig, easy drill operator to observe and centralized control the machinery and hydraulic system, the pneumatic operating system is convenient and safety, could be one-handed control while traveling.



**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.



**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.

## PARTSLIST

NAME	MODEL	UNIT	Q'ty	REMARKS
Bit	64mm	pcs.	1	
Rod	T38	pcs.	5	
Outer Sleeve	DRC300	pcs.	1	
Front Joint	DRC300	pcs.	1	
Rear Joint	DRC300	pcs.	1	
Chain Wheel Bushing	530010003	pcs.	1	
Chain Wheel Axes	530010004	pcs.	1	
Chain Wheel	530010005	pcs.	1	
Chainlive Knot	CL351	pcs.	1	
Track Roller	530020503	pcs.	8	
Axes	530020504	pcs.	8	
Axes	530020507	pcs.	12	
Track Roller	530020508	pcs.	12	
Grease Nipple	M10*1	pcs.	20	
Key	M5*16	pcs.	20	
Locknut	M20	pcs.	20	
Shock Sub	530020300	pcs.	1	
Transition Joint	530000007	pcs.	1	
Transition Joint	530000012	pcs.	1	
Vane	TMY18	pcs.	1	
Vane	TMY8	pcs.	1	
Worm Gear	530110004	pcs.	1	
Worm Wheel	530110100	pcs.	1	
YX Ring	151215077	pcs.	1	
Gasket	DRC300-2	Set	1	
Pin	DRC300-2	Set	1	
Radom Tools	DRC300-2	pcs.	1	
Instruction & Parts Manual	DRC300-2	pcs.	1	

## DRILLING COVERAGE

