

JRC500B

JRC500B REVERSE CIRCULATION DRILLING RIG

JRC500B系列反循环钻机

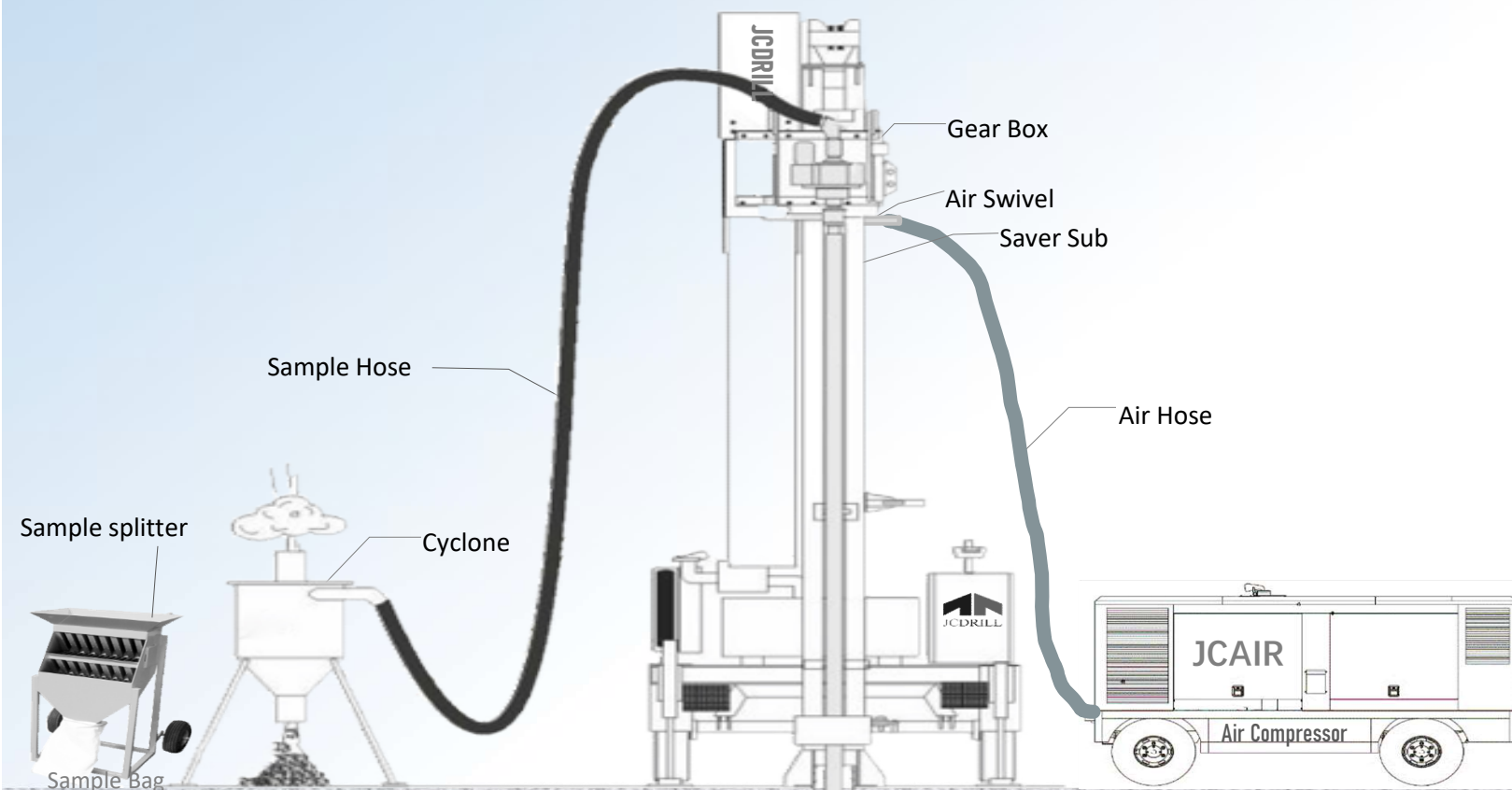
RC DRILLING KNOW HOW 什么是反循环

- >> Reverse Circulation is a drilling method widely used around the world.
- >> RC drilling uses dual wall drill rods consisting of an outer drill rod with an inner tube. These hollow inner tubes allow the drill cuttings to return back to the surface in a continuous, steady flow.
- >> The advantage of this drilling technique is that it produces large quantities of high quality, reliable samples free of cross-contamination. The cuttings also allow surveyors to locate mineral deposits more precisely as the samples are identified by the exact depth and location that they were found.
- >> RC drilling produces dry rock chips, large air compressors dry the rock ahead of the advancing drill bit. It is slower, but achieves better penetration than other types of drilling.
- >> Conventional DTH and Top Hammer collar sampling are likely to experience unwanted material collection, as the desired sample is blown to the surface via the hole annulus and contaminated by the prior sample intervals.
- >> As a result, Reverse Circulation drilling results are successfully used in resource calculations worldwide.

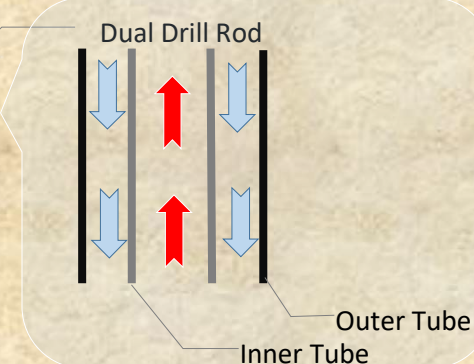
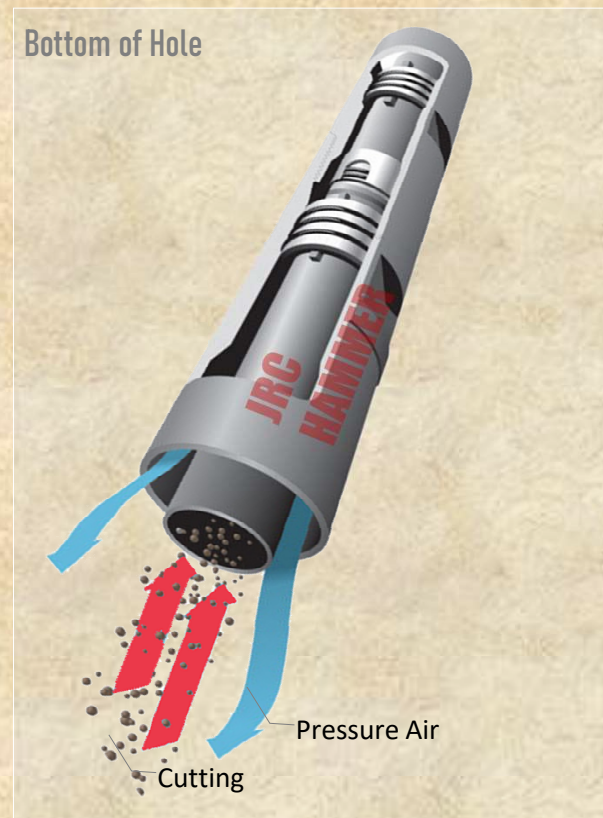
JRC500B CHARACTERISTICS 主要特点

- >> JRC500B 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.





Bottom of Hole



Digout Sub
RC Hammer
RC Drill Bits



Specification技术参数

Spc.	Unit	JRC500B
Geology drilled		All kinds
Drilling Type		
Drill system and operation		Hydraulic
Max.Hole Diameter	mm	105-450
Max.Hole Depth	m	500
RC Drill pipe diameter	mm	102/114/127
Drill pipe length	mm	6000
Rotation Unit		
Rotation Torque(Eaton Motor)	N.M	11800--5900
Rotation Speed	rpm	0--74--148
Mast		
Compensation distance	mm	1500
Drilling Angle range	°	45-90
Mast total Length	mm	11000
Feeding System		
Feeding Structure		Cylinder&Chain
Max. Feed Speed	M/min	0-32
Max. Lifting Speed	M/min	22
Feed Stroke	mm	7600
Pull back Capacity	T	30
Push down Capacity	T	0-15
Winch		
Lifting force of tool winch	T	1.5
Rope Diamter	mm	Φ10
Swing angle		Cylinder ±40°
Auxiliary winch	T	0.5
Rope Diamter		6mm
Slips and breakout		
Slipstable max.Opeaning	mm	240
Cooling system		
Engine system		Engine fan with radiator
Hydraulic System		Hydraulic Driven Cooler
Pipe Rack		
Capacity(102x6m RC Drill pipe)		36Pcs(216m)
Power Unit		
Diesel Engine Model		CUMMINS(Euro-2)
Rated Horse power	Kw	239KW
Electrical System	Volt	24
Fuel Tank Capacity		200L
Hydraulic System		Open quantitative system
Pump Model		L8V-107-107
Pump type		Quantitative Piston pump

Sample Coolect System

Blow down valve		Standard Install
Cyclone type		Three layer cyclone& sampler
Hammer Oil tank		
Tank Capacity	L	16
Control		Needle Valve Regulate
Hydraulic Jacks		
Max.Extension x2 front Jacks	°	90
Max.Extensionx2 Rear Jacks		N/A
Stroke of x2 front Jacks	mm	600
Stroke of x2 rear Jacks	mm	600
Control System		
Control type		Remote control & valve control
Hydraulic Clamp		3 layers
Safety alert System		
Sample hose connection		With steel protection net
Emergency Stop button		1 front,1back
Fire extinguisher		2Pcs
Gradeability	°	22°
Walking Speed	Km/h	1.5- -2.5
Tramming motor capacity		TL60
Footboard		Standard 2pcs
Seat		Standard
Reverse remind		Standard
Lifting point		Standard
Rod change camera		Standard
Dimension		
Net Weight	Ton	34
Shipping Dimension	mm	12000×2900×3000
Ground Clearance	mm	320

Remote Control

Main pump: constant power load sensitive variable piston pump (P=32.5Mpa)

Power mechanism: engine-coupling-main oil pump

Main rotation motor: plunger high-pressure variable hydraulic motor (P=32.5Mpa)

Main valve: electro-hydraulic pilot load sensitive directional valve - electric control valve, remote control

Electronic control system: imported controller, remote control, Taiwan analog handle, proximity switch, etc