

Advantage:

- >> Hole range:90-152mm
- >> Two hydraulic motor driven rotary head,with big rotation torque.
- >> Two speed feed system,save rod change time.
- >> Manganese steel slideway on mast ,increase mast service life.
- >> **Optional:**
Hydraulic dust collector
Hydraulic clip



JC860

DTH ROCK DRILLING RIG

潜孔钻机

INTRODUCTION产品介绍

- >> JC860 hydraulic down-hole drill is a multi-functional drill rig driven by internal combustion engine, the drilling power was provided by hydraulic system except for impacting and the hole cleaning wind. It is convenient and efficient to operate. This drill is the best replacement for traditional pneumatic drills in most operation. The drill is compact in structure, simple in operation, light in total weight. JC860 hydraulic crawler drilling rig is widely used for blast-hole drilling in the mines and quarries. It is also used for anchor in road, railway, power station, civil engineering and building etc.
- >> The Rugged track was driven by hydraulic motor with high traveling ability.
- >> The feed and rotary head were driven by hydraulic motor, therefore, the air and oil consumption and total drilling cost are lower.
- >> The hydraulic feed and rotary head put out the biggest feeding force and largest rotary torque, which makes it more suitable for operation in complex worksites.
- >> The Hydraulic track oscillation makes it more suitable to drill in any rough terrain.
- >> The carriage with rollers provides for minimal wear to the drill guide.

>> CHARACTERISTICS产品特点

- >> Diesel Engine: The drill was equipped with Yuchai 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.
- >> Rotary Head Assembly: Equipped with hydraulic rotary motor, the Rotary Head Assembly speed reduced by two planetary gear, the output torque is 2650N/m, rotary speed 0-80rp/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, increase the capability and life.
- >> Mast 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.

Characteristics

产品特点

- >> Operating System: Operating System equipped in the back of rig, easy drill operator 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), 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 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.

Specification 技术参数

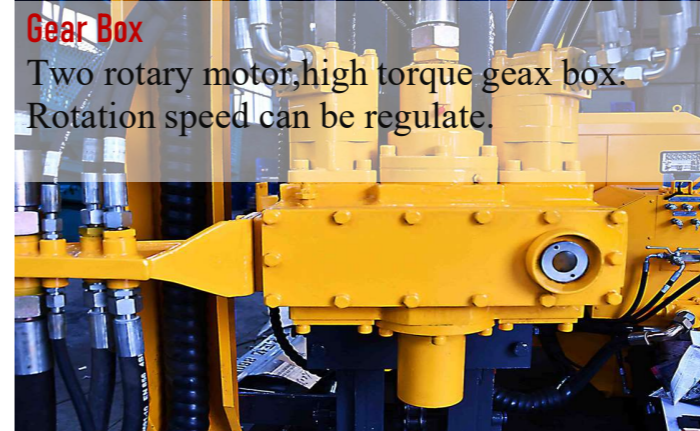
Specification	Unit	JC860
Drilling Specification		
Rock Hardness		F=6-20
Hole Diameter	mm	90-152
Hole Depth	m	40
Drilling Rod Diameter	mm	60,76,89
Rotary Head		
Rotation Torque	Nm	2650
Rotation Speed(Normal and Fast)	rpm	0-82/0-112
Feeding System		
Max. Feed force	KN	25
Max. Lifting force	KN	30
Max. Feed Speed	M/min	15
Max. Lifting Speed	M/min	15
Boom&Guide		
Max Swing of Boom	°	45° left / 45° right
Max Dump of Boom	°	up60 down20
Max Swing of Mast	°	30(L) / 91(R) or91(L) / 30(R)
Max Dump of Mast	°	180
Feed Stroke	m	3.2
Engine		
Manufacturer		YUCHAI
Rated Horse power	Kw	63
Type		4Cylinder,water cooling
Air Compressor demand		
Air Consumption	M ³ /min	11.3-21m ² /min(1.4-2.4 Mpa)
Compressor Type		Rotary Screw/Movable
Dust Collector		
Dry/Wet		Optional
General Specification		
Max. Travel Speed(Slow/Fast)	Km/h	2/3
Gradeability	°	24
Net Weight	kgs	5500
Shipping Dimension(L*W*H)	mm	6000*2000*2480
Ground Clearance	mm	252



Main Structure 主要结构

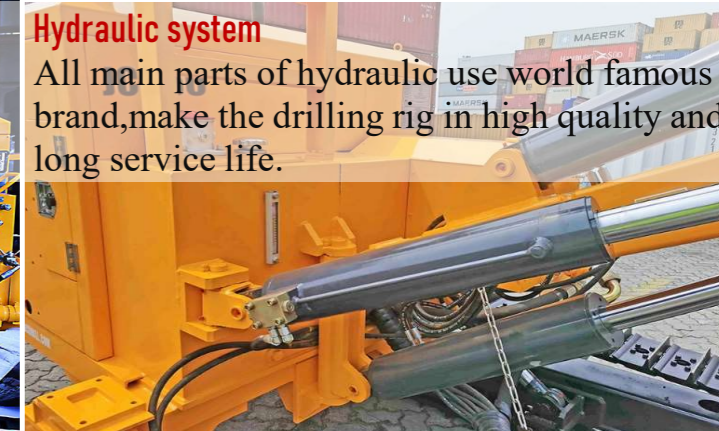
Gear Box

Two rotary motor,high torque geax box.
Rotation speed can be regulate.



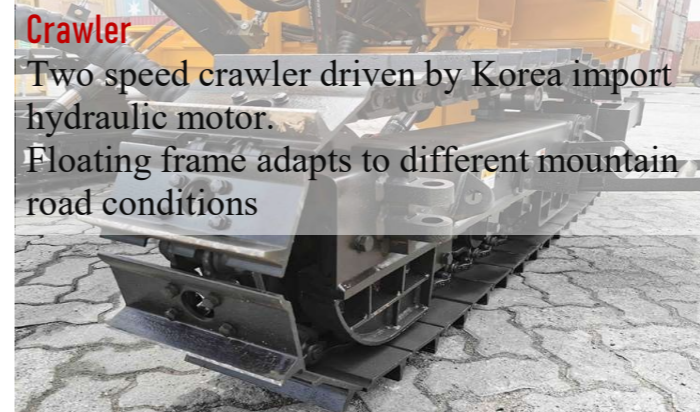
Hydraulic system

All main parts of hydraulic use world famous brand,make the drilling rig in high quality and long service life.



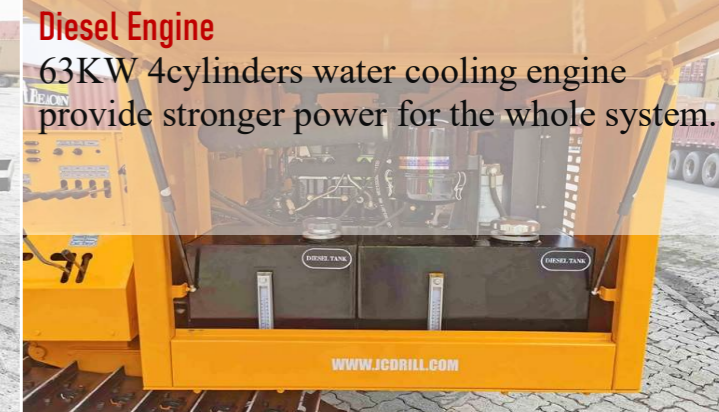
Crawler

Two speed crawler driven by Korea import hydraulic motor.
Floating frame adapts to different mountain road conditions



Diesel Engine

63KW 4cylinders water cooling engine provide stronger power for the whole system.



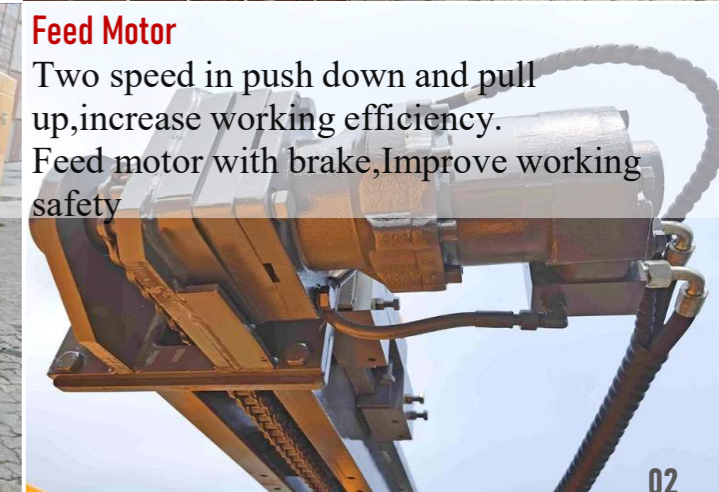
Control Panel

Integrated console,easy drill operator observe and centralized control.



Feed Motor

Two speed in push down and pull up,increase working efficiency.
Feed motor with brake,Improve working safety



DTH Drilling Know How

Down-the-hole drilling (DTH) essentially involves a drilling hammer at the bottom of a drill string. It relies on three elements for drilling holes: bit loading (weight), rotation and air. These active elements combine to be efficient at crushing rock. As the drill string slowly rotates, the drilling hammer is forced into the rock repeatedly. Striking power is provided by compressed air driving a piston inside the hammer.

Where is it used?

DTH drilling is often used in the mining industry (blast hole drilling), on construction sites, drilling water wells, and in the oil and gas industry.

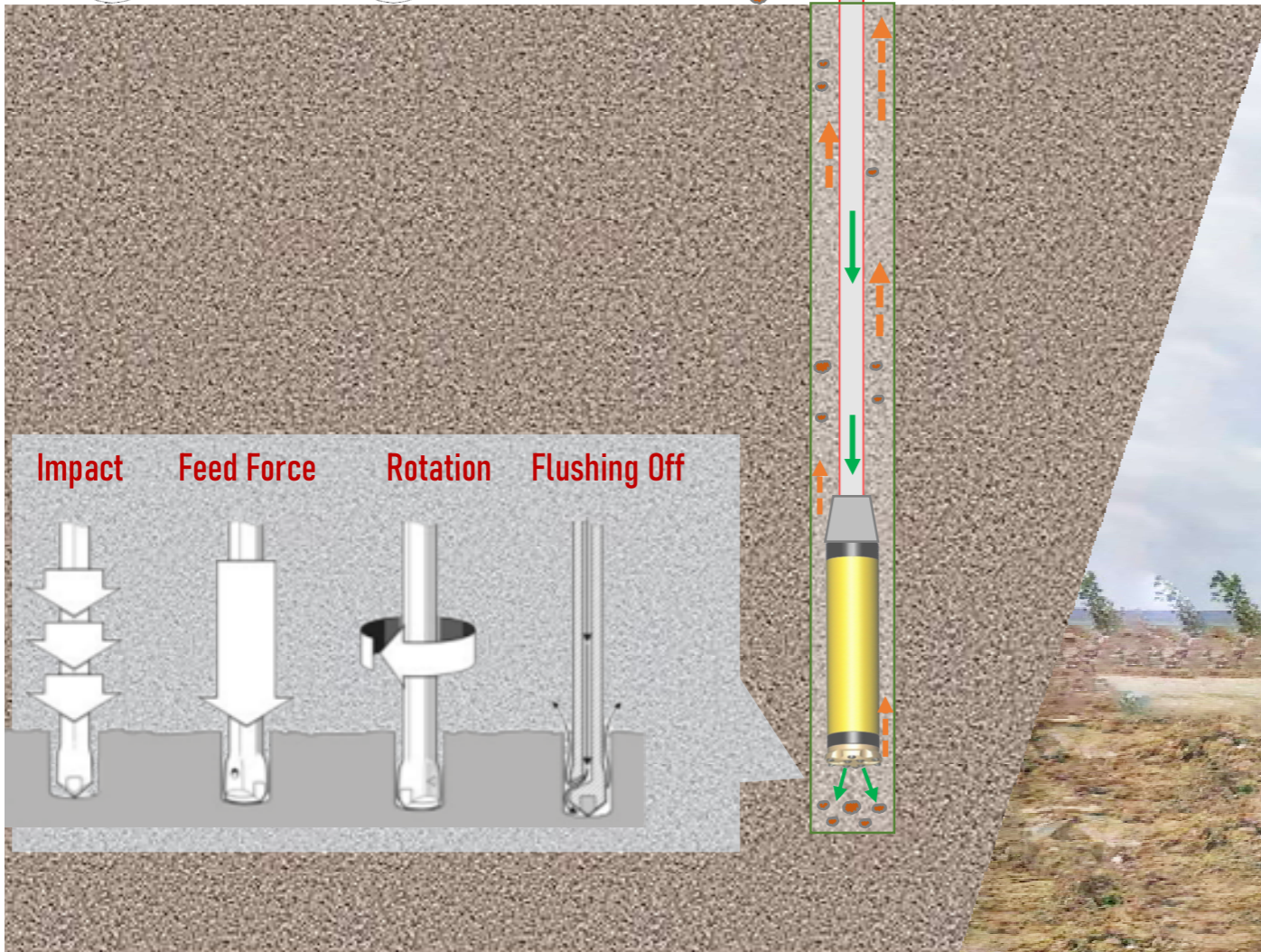
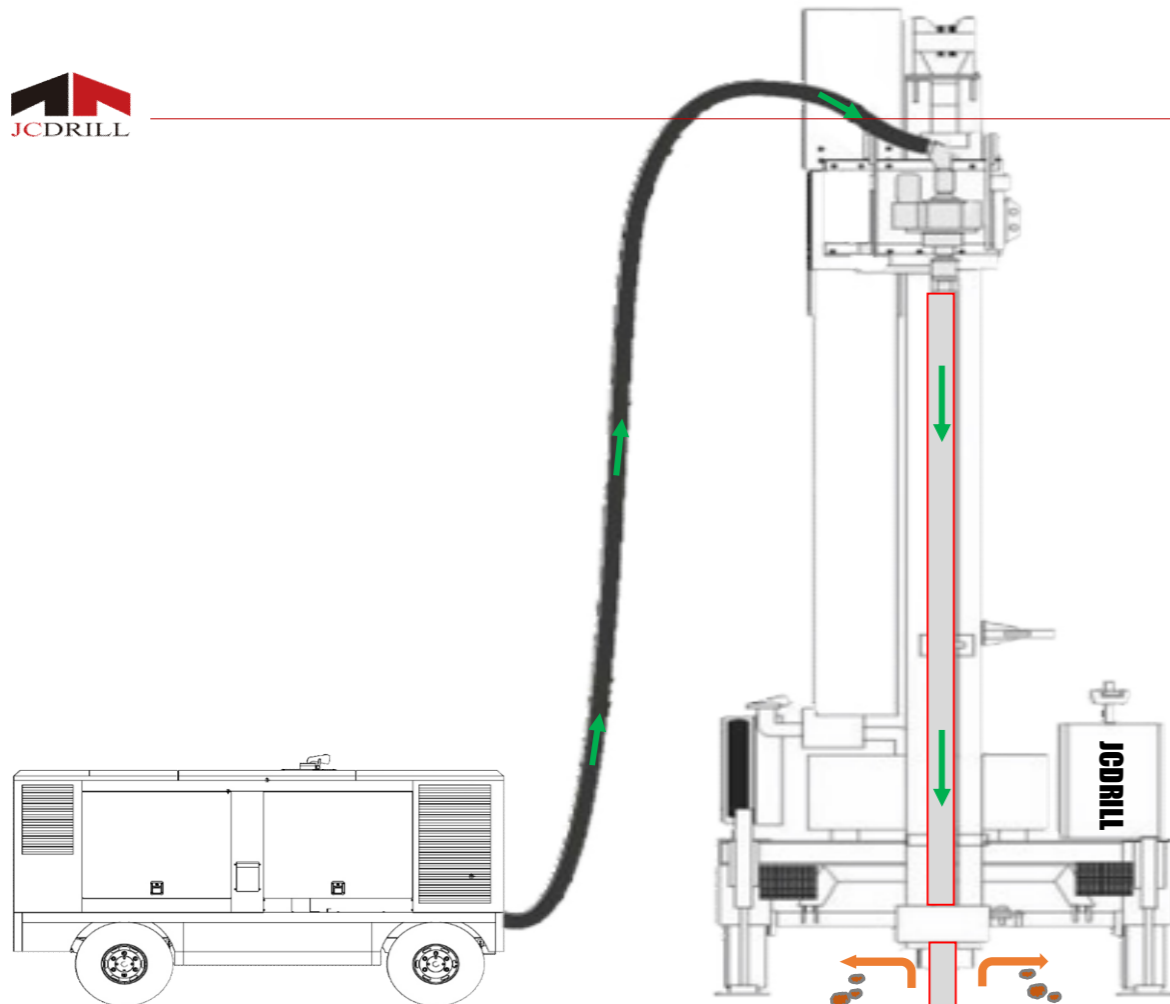
DTH advantages

DTH drilling offers several advantages over top-hammer drilling for larger, deeper holes in medium-hard formations. Because the hammer is at the bottom of the hole, power loss is minimal as the hole deepens. That means energy is not lost in the drill string and penetration rates do not markedly decline with depth—provided that back pressure does not rise significantly in the borehole. DTH drilling is most suitable for hole diameters of 4–10 inches, with some exceptions.

Compressed air power

The DTH hammer is pneumatically powered, with the compressed air propelling it forward to impact and fracture rock. Compressed air also travels through the drill bit into the hole (air exhaust), which blows the chips and dust out of the hole.

Quieter drilling





Shipping 运输



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