

JCDRILL 锦程钻探

JCDRILL Company located in Beijing of China, specialized in research development, production of rock blasting drilling rig, water well drilling rig, diamond core drilling rig, anchor drilling rig, and relative accessories & drillingservices. According to customer's requirements, we provide professionaldrilling solutions to customers. 30% water well drill rigs of JCDRILL Series are sold in domestic market and 70% are exported to all over the world.

JCDRILL will always focus on the strategic conception of "Survival by quality, Development by creditto provide users with high quality drilling solutions. In our after sales service system, We establish perfect control system strictly according to ISO-9000 series, in this system, technology date and problem solve solution and preventive measures will be provided in any maintain project, all the spare parts will be used in new OEM products with installation instructions, packing list, manufacturer's instruction, qualification and Warranty certificate.

We provide "one equipment & one case, endless service, namely the after sales service begin from the order confirmation, last for the working life of the equipment.



JC660

INTEGRATED HYDRAULIC DOWN-THE-HOLE DRILL



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SURVIVAL BY QUALITY

DEVELOPMENT BY CREDIT

JC660

WWW.JCDRILL.COM





TWO-STAGE ENERGY-SAVING AIR COMPRESSOR

BSC Bauer Co., Ltd. provides professional air compressor solutions for fields such as mining drilling and blasting, water well drilling, oil and gas extraction, pipeline construction, sand dredging and cleaning, and infrastructure. The X45 uses a customized BSC two-stage screw energy-saving main unit with an output of 16 m³/min and a pressure of 1.8 MPa, offering high compression efficiency, fast operation, and low energy consumption. It is also equipped with automatic unloading control technology, effectively reducing fuel consumption.



TURBOCHARGED ENGINE

It uses a Guangxi Yuchai electronically fuel-injected diesel engine with a power output of 191 kW and meets China III emission standards, making it efficient and environmentally friendly. It is equipped with an imported two-stage screw air compressor with automatic speed adjustment technology, which saves fuel and is eco-friendly. The intake employs an automatic air filter blowing system that uses compressed air to automatically clean the air filter every time the power is cut off, avoiding secondary pollution from manual cleaning and reducing maintenance time for the drilling rig. The vertical alignment and direct connection of the hydraulic pump, air compressor, engine, and radiator ensure that the entire system minimizes power consumption during operation and facilitates daily maintenance and upkeep.

INTEGRATED MACHINE DESIGN

AUTOMATIC ROD HANDLING SYSTEM

To achieve higher working efficiency in drilling operations, we used the Malta automatic rod handling system on the X-45 to improve drilling quality and safety, while reducing labor costs and physical effort. The drill rod rack can hold 5 rods, plus 1 on the sliding frame. Using 3-meter rods, the hole depth can reach 18 meters. Automatic rod handling and changing can save overall project time, with longer projects resulting in greater time savings.



JC660

+ Expected benefits.

Improve your production efficiency.

Match high-pressure air compressors to achieve optimal drilling performance.

Provide greater drilling coverage.

A drilling rig refined through continuous development.

Stable and reliable process design.

Ensure you complete drilling operations faster and more efficiently.

Adjustable Dust Hood

The adjustable dust hood can move up and down, facilitating the removal of rock debris near the drilling hole and allowing for observation of the drilling process.

Upgrade motor

Equipped with an Eaton high-torque lift motor, the braking is reliable. The single-stage lift can reach a maximum speed of 4.3 seconds, helping to reduce your mast change time.

slewing reducer

High-torque, high-load rotary gearbox, recommended for use with 3.5"-4" down-the-hole hammers. By adjusting the speed and torque, it can achieve the optimal working condition, maintaining faster drilling under different conditions of soft and hard rock. The rotary gearbox matches an Eaton hydraulic motor and is equipped with a reinforced shock absorber, reducing the impact reaction force of drilling and extending the service life of the gearbox.



Equipped with imported high-torque travel motors, it can tow an air compressor freely. The support wheels are maintenance-free, and the track plates have mud discharge grooves, making them less prone to jamming. The track plates have mud discharge grooves, reducing the chance of jamming. The track guards prevent the tracks from coming off.

SIMPLE HANDLING PERFORMANCE

The JC660 control console adopts an integrated design with electric control buttons and HC hydraulic pilot control handles. Using fewer components can reduce troubleshooting, improve reliability, and enhance service efficiency, ensuring the stability of the control system. All hydraulic components of the vehicle are from well-known domestic and international brands, ensuring the rig is reliable and durable. The spacious cab has a work status display area on the right side, featuring pressure gauges and a 7-inch Bowdrop reverse camera display screen. The vertical layout makes the rig's operational status clear at a glance. It complies with ergonomic design principles, is produced to high-quality craftsmanship standards, has a reasonable layout that is easy to maintain, and is simple to operate.

1. Advance / Retract	12. Raise/Lower Dust HoodImpact Pressure Adjustment	21. USB interface	33. Drill arm lifting
2. Forward rotation / Reverse rotation	13. Rod Change Control	22. Start/Power on/Stop	34. Drill arm swinging
3. Advance pressure gauge	14. Pulse Switch	23. Throttle	35. Front and rear lights / all vehicle lights
4. Rotary pressure gauge	15. Grab Rod/Release Rod	24. Drilling/Travel switch	36. Front and rear wipers / front and rear washers
5. Impact pressure gauge	16. Feed Rod/Retract Rod	25. Left/Right track lock switch	37. Air conditioning switch / hot and cold air knob
6. Reversing camera display screen	17. Grease Spray Button	26. Left travel	
7. Working status LCD display	18. Horn	27. Right travel	
8. Fast advance	19. High Exhaust Temperature Light / Drilling Indicator Light / Battery Alarm Light	28. Dust collector control	
9. Push-pull switch	20. Emergency Stop Switch	29. Body float	
10. Upper / Lower clamping		30. Carriage compensation	
11. Out / In storage		31. Carriage pitch	
Loose / Tight lever		32. Carriage swing	

Note: + RPM, oil pressure, water temperature, fuel level

PROVIDING YOU WITH ADVANCED HYDRAULIC CONTROL SYSTEMS

The JC660 uses a load-sensing system, which features low power loss, minimal heat generation, and efficiency significantly higher than conventional hydraulic systems, making it more fuel-efficient and an optimal solution for transmission and control systems. The hydraulic valve assembly adopts a modular design, which is easy to operate and maintain. Fewer components reduce troubleshooting and enhance reliability and service efficiency. To ensure system stability, we use well-known hydraulic components from both domestic and international sources, ensuring the rig is reliable and durable.

SWING GEARBOX



VARIABLE PUMP



MULTIFUNCTION VALVE





Dust collection system

It uses a two-stage dust removal system with cyclonic (area A in the picture) and laminar flow (area B in the picture), and built-in high-quality filter materials ensure dust removal efficiency and service life. It protects the health of operators. The filtering area of the seat system is 16 m², effectively filtering dust and significantly reducing the environmental impact of dust.

Maintenance-free intake system

The powerful Yuchai engine and BOS air compressor are equipped with a maintenance-free self-blowing system (images C/D areas). When the drilling rig is powered off, the engine intake air filter can automatically blow away dust, reducing manual work, ensuring the engine inhales clean air, and extending the engine's service life.

Pulse Controller

The pulse control instrument (Image E area) uses a direct-through pulse valve. The control instrument can automatically precisely control the filter cartridge blowing time, enhancing dust collection capacity. It features a built-in dustproof design, is easy to adjust, and is safe and aesthetically pleasing.



Fuel Tank.

550L standardized diesel tank, with primary and auxiliary tanks (shown in images F/H areas). The fuel filler is designed with an auxiliary ladder for convenience and flexibility, ensuring continuous and uninterrupted operation.



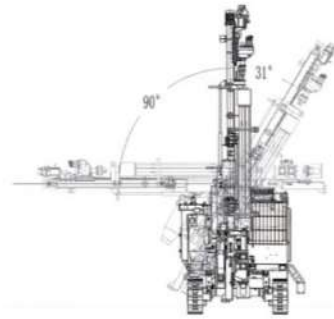
Travel motor

Equipped with a plunger travel motor and a dual-speed travel system, it offers powerful performance and responsive braking. Its strong traction drive ensures safe and reliable travel operations.



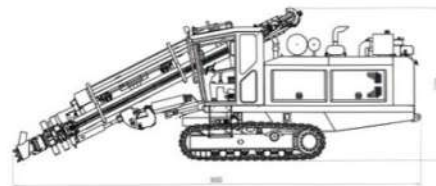
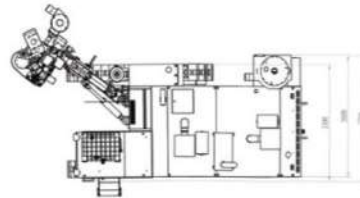
TECHNICAL SPECIFICATIONS

DRILLING RIG		JC660
Drilling Range (mm)	90-130	
Maximum Drilling Depth (m)	60	
Horizontal Drilling Height (mm)	3600	
Drill Rod Diameter (mm)	76	
Drill Rod Length (mm)	4000	
Number of Rods Stored	5+1	
Automatic Rod Handling Drilling Depth (m)	24	
ENGINE		
Model	Yuchai YCA08280-T301	
Emission Standard	National III Emission Standard	
Operating Speed (rpm)	2200	
Rated Power (kW)	206	
Fuel Tank (L)	550	
AIR COMPRESSOR		
Manufacturer	BSC BOSS Twin-Screw Compressor	
Discharge Pressure (MPa)	2.0	
Discharge Flow (m ³ /min)	16	
PROPULSION		
Slide travel (mm)	4115	
Rapid feed rate (m/min)	60	
Lifting force (KN)	20	
Rotational speed (rpm)	0-140	
Rotational torque (N.m)	0-3400	
Ambient temperature (°C)	-35/50	
Altitude (m)	≤2500	
TRAVEL SYSTEM		
Maximum travel speed	0-2.5	
(km/h)	420	
Ground clearance (mm)	25	
Climbing ability (°)	350	
Track width (mm)	+/-6	
DUST COLLECTION		
Filtration Area (m ²)	16	
Number of Filter Cartridges	16	
Dust Suction Pipe Diameter	5"	
Motor Speed (rpm)	3700	



SLIDE SWING ANGLE

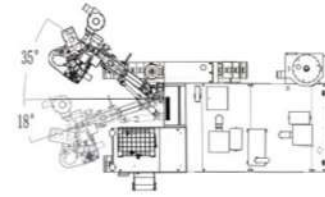
WORKING ANGLES	
Boom Pitch (°)	Pitch 23 / Tilt 54
Boom Swing (°)	Left 18 / Right 35
Derrick Swing (°)	Left 90 / Right 31



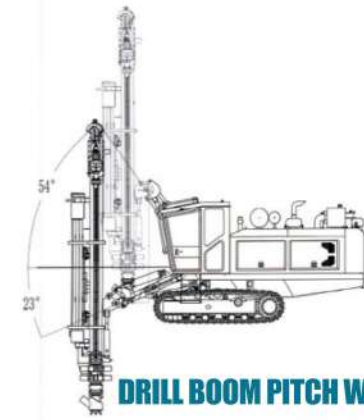
TRANSPORT SIZE DIAGRAM

SHIPPING DIMENSIONS	
Length (mm)	9000
Width (mm)	2700
Height (mm)	3300
Weight (kg)	13500

*Standard drilling rig parameters, excluding drill rod kits and optional components



DRILL ARM SWING ANGLE



DRILL BOOM PITCH WORKING RANGE

POWER SECTION

Yuchai Co., Ltd. turbocharged diesel engine.
 Borgs Co., Ltd. two-stage energy-saving screw air compressor.
 Two sets of intake systems/automatic blow systems, respectively for the engine and the air compressor.
 Customized remote three-stage machine filter system for easy maintenance.
 Designed drainage, oil discharge, and sewage conduits directly guide fluids outside the vehicle for more convenient maintenance.
 Dust removal system, liftable dust cover, swirl cylinder.
 Rear camera and reversing alarm light.
 Upper and lower clamping rod system.
 Rotary rod-changing system.
 Wave pressure motor equipped with chain-type lifting device.
 12A reinforced chain drive.
 Hydraulic cylinder reversible mechanical arm system.
 On-board toolbox.
 Standard night LED lighting system.
 Fuel preheating start device (optional).

POWER SECTION

The entire vehicle is equipped with rubber shock-absorbing pads.
 Three drilled working condition pressure gauges.
 Tempered glass windows.
 Window guard rails.
 Sunshade curtain.
 Front and roof windows equipped with 2 windshield wipers.
 Rearview mirrors.
 Fully adjustable driver's seat.
 Cab lighting.
 550ml high-performance dry powder fire extinguisher (Type 13).
 Air conditioning.
 USB port available.
 Radio and speakers.
 Monochrome display showing engine operating status.
 7-inch reversing camera.

HYDRAULIC SYSTEM

Oil mist lubricator.
 Three-stage oil-water filter.
 Suction and return oil filters.
 Grease pump.

PARTNER



+ RELIABLE SERVICE

Jincheng Drilling Rigs provides customers with free installation guidance, on-site technical training, startup, and commissioning services.



+ EFFICIENT SERVICE

Jincheng Drilling Rigs has established an after-sales service team with fast information communication channels with the technical, parts, and warehouse departments to ensure customer issues are promptly addressed and resolved.



+ CONTINUOUS

Even the best equipment requires regular maintenance to ensure optimal performance. Jincheng Drilling Rigs provides service solutions to maintain productivity while achieving maximum returns, greater availability, and lower operating costs.



+ ENVIRONMENTAL PROTECTION

The protection of environmental resources is an issue that we are paying more and more attention to in the future. Both the government and machinery manufacturers are making relentless efforts to find a reasonable way for customers to balance resource extraction and environmental maintenance. For example: optional water dust removal systems, installation of multi-layer filters, multi-stage hydraulic oil filtration, and wider dust collection hoods.



+ SAFETY

Production safety is of utmost importance. We are committed to eliminating all potential hazards to ensure the personal safety and health of operators and auxiliary workers.

