

CHANGSHA DTH DRILL CONSTRUCTION MACHINERY CO.,LTD.





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WATER WELL DRILLING RIG

CHANGSHA DTH DRILL CONSTRUCTION MACHINERY CO., LTD



Changsha CSDRILL Group was established in June 2021 as a comprehensive service provider specializing in mining rigs and drilling tools. One of the company's founders is Professor Zhao Mingchun from Central South University, who has been recognized by Stanford University as one of the top 2% scientists in the world for three consecutive years (2022, 2023, and 2024). Under the leadership of Professor Zhao Mingchun, Changsha CSDRILL Group focuses on research in the field of "development and construction of high-performance, high-quality metal materials for extreme environments."This includes research directions such as "heat treatment processes and technologies for high-performance wear-resistant materials in mining machinery," "hydrogen embrittlement, hydrogen-induced delayed fracture, and fatigue properties of high-strength steels," and "preparation, key control processes, and microstructure and performance regulation of ultra-high-strength steels." The company maintains close scientific collaborations with renowned research institutions, including the Institute of Metal Research of the Chinese Academy of Sciences and the University of Queensland in Australia, and jointly trains master's and doctoral students, following a path of integrated industry-academia-research development.

Changsha CSDRILL Group has factories in Xiangtan, Yueyang, Yiyang, and Linyi, with its global sales office located on the entire 13th floor of Building T2 in Changsha Greenland Intercity Space Station. The company's CSDRILL brand products, including reverse circulation drills, core drills, multi-function drills (reverse circulation/core/water well), blasting drills, water well drills, tunnel drills, and drilling tools, are exported to over 80 countries and serve more than 100 mines worldwide.

The products of Changsha CSDRILL Group are suitable for various types of mines, with a focus on drilling solutions for gold, copper, bauxite, coal, and stone mines. They are widely adaptable to harsh environments such as plateaus, permafrost, and rainy regions. The company provides one-stop drilling solutions for exploration, blasting, mining, oil wells, slope protection, anchoring, tunneling, and pile foundation construction (including solar energy applications).

Changsha CSDRILL Group is committed to becoming the king of drilling rigs, making drilling simple!

Welcome to visit our factory!

BUSINESS AND PRODUCTION O1 Our global sales headquarters is strategically located on the 13th floor of the Greenland Changsha Intercity Space Station T2 building. O2 CSDRILL Group operates state-of-the-art manufacturing facilities in Xiangtan, Yueyang, Yyang, and Linyi.















ENTERPRISE STRENGTH



Top 2% Global Scientists

2022 2023 and 2024 Top 2% Global Scientists Selected by Stanford University in the United States.



20+Yrs Experience

20+ years of production experience of DTH drilling tools.



One-stop Solution

water well drilling machines, coring drilling machines, reverse circulation drilling machines, tunnel drilling machines, and drilling tools.



Key Projects in Hunan

The new factory is a key project in Hunan Province.



3A Credit Certification

Certifies 3A credit by People's Bank of China.



School enterprise cooperation

Research and development team of School of Materials Science and Engineering, Central South University.



BUSINESS SCOPE



80⁺

CSDRILL Group's drilling rigs and drilling tools are exported to more than 80 countries and can fully adapt to a variety of extreme climatic and geographical conditions such as permafrost, plateau altitude, and tropical rainy season.

100⁺

CSDRILL Group providing one-stop drilling service solutions for more than 100 gold mines, copper mines, bauxite mines and other mines.





Own Factory

20 years of experience in professional drilling rig R&D and manufacturing.



Customized

A variety of drilling rigs can be customized, including core drilling rigs, reverse circulation drilling rigs, blasting drilling rigs, tunnel drilling rigs, water well drilling rigs, etc.



Production Line

We have a dedicated production and processing line, which is equipped with several CNC machine tools and advanced guide rail grinders, large gantry planers, vertical machining centers, horizontal machining centers and welding robots.



Technical Support

We are online 24 hours a day to provide professional drilling rig knowledge answers and any consulting services.

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A. What is a water well drilling rig?

A water well drilling rig is a specialized piece of equipment used to drill boreholes or wells into the ground to access underground water sources, such as aquifers. These drilling rigs come in various sizes and configurations, depending on the specific requirements of the drilling project, such as depth, soil type, and environmental conditions.

The primary purpose of a water well drilling rig is to penetrate the earth's surface and create a hole (called a borehole or well) that allows the extraction of water for various uses, including drinking, irrigation, industrial processes, and more. The drilling process involves the use of a drill bit attached to a drill string, which is rotated and forced into the ground by the drilling rig's machinery. As the drill bit penetrates the ground, it breaks up and removes soil, rock, and other materials, creating a hole.

B. Application of water well drilling rigs





Water well drilling rigs are equipment used to drill water wells and are widely used in water resource development and water well construction. Its scope of use includes the following aspects:

Water source drilling: used to exploit groundwater resources, such as rural drinking water wells, agricultural irrigation wells, industrial water wells, etc.

Geological exploration: In hydrogeological exploration, drilling rigs are used for groundwater level monitoring and sampling analysis to understand the distribution of groundwater resources and strata.

Geothermal well drilling: used for the development of geothermal resources, such as geothermal power generation, geothermal heating, hot spring development, etc.

Engineering exploration: In engineering construction, it is used to survey foundation water level, underground soil structure, rock hardness and other information to facilitate subsequent engineering construction.

Environmental protection and soil and water conservation: In the field of environmental protection, water well drilling rigs are used to monitor groundwater pollution and land resource water quality, and help implement soil and water conservation.

Mine drainage: In mining engineering, water well drilling rigs are used to drill drainage holes to remove groundwater in mines and ensure safety.

C. The difference between using air compressor and mud pump in water well drilling rig

From the working principle, air compressor drilling rig relies on compressed air generated by air compressor as power source. Compressed air is delivered to the inside of the drilling rig to drive the mechanical parts to operate, and then drive the drill bit to rotate at high speed to achieve drilling of rocks or other materials. Mud pump drilling uses mud pump to inject mud into the drilling system at high pressure. Mud plays a variety of roles in the drilling process. On the one hand, it can assist in breaking rocks through its own impact force; on the other hand, it can also carry drill cuttings back to the ground to ensure the continuous drilling work.

In terms of structure, air compressor drilling rig is mainly composed of air compressor, connecting pipeline, drilling rig body and drill bit. The air compressor is the core power component, the connecting pipeline is responsible for delivering compressed air, and the drilling rig body integrates key components such as mechanical transmission. Mud pump drilling mainly includes mud pump, mud pool, drill pipe, drill bit and circulation pipeline. The mud pump is responsible for providing the pumping power for the mud, the mud pool is used to store and mix the mud, and the drill pipe is the channel for mud transportation and drilling.

In terms of advantages and disadvantages, the air compressor drilling rig has the advantages of quick start-up, simple operation, and relatively light equipment, but its operation is limited by the air source, and its efficiency may be low when dealing with hard rocks. The advantage of the mud pump drill is that it has strong adaptability to complex geology and can effectively protect the wall and discharge slag. However, its equipment is large in size, the mixing and processing of mud is relatively cumbersome, and the cost is relatively high.

D. Water Well Drilling Rig Accessories



DTH Hammer







5000



OTH Drill Bit



Drill Pipe

Water Detector

Tricon Drill Bit

• PDC Drill Bit

Drag Drill Bit

Mud Pump

Water pipe
(connecting mud pump)

Air Con

Air Compressor

• Air duct (connecting air compressor)

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Product Features:

- 1. Adopt 23KW Changchai brand engine, which is powerful.
- 2. This series of water well drilling rigs has the characteristics of standardized configuration, compact and reasonable structure, fast drilling speed, economical and durable, and low failure rate.
- 3. The main arm of the drilling rig is equipped with a baffle to protect the oil cylinder.
 4. Parallel transmission design, independent oil pump, sufficient power, reasonable distribution, unique hydraulic system design, simple maintenance and low cost.
- 5. Dual systems can be installed: 1. Air power system with air compressor 2. Mud pump system with mud.







Madel/Ibon	Linda	CC170
Model/Item	Unit	CS130
Weight	Т	3
The Hole Diameter	mm	100-219
Drilling Depth	m	130
One-time Advance Length	m	2.3
Walking Speed	km/h	3
Gradeability	max.	30
Equipped Capacitor	kw	23
Working Air Pressure	Мра	1.45-2.5
Air Consumption	m³/min	15-29
Swing Speed	rpm	40-46
High Leg Stroke	m	0.6
Drill Pipe Diameter	mm	Ф76 Ф89
Dril Pipe Length	m	1.5 2.0
Rig Lifting Force	Т	6
Rapid Rise Speed	m/min	15
Fast Feedilng Speed	m/min	23
Width of Loading	m	1.56
Hoisting Force of Winch	Т	/
Swing Torque	N.m	2200-3000
Dimensions	mm	3850×1560×2050
The Penetration Effciency	m/h	10-35
The Engine Brand	1	changchai

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CS180/CSX180

Product Features:

- 1. Adopting a full diesel 55kw engine, it provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrally formed, and the dual motors provide greater power and torque, which is more durable and has lower maintenance costs.
- 4. The chassis of the drilling rig can be made of steel and rubber. The steel track can adapt to more complex environments, and the rubber track has less damage to hard roads.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CS180	CSX180
Weight	Т	5.2	4.8
The Hole Diameter	mm	140-254	
Drilling Depth	m	180	
One-time Advance Length	m	3.6	
Walking Speed	km/h	2.5	
Gradeability	max.	30	
Equipped Capacitor	kw	55 or 58	
Working Air Pressure	Мра	1.7-2.5	
Air Consumption	m³/min	17-31	
Swing Speed	rpm	45-70	
High Leg Stroke	m	1.4	
Drill Pipe Diameter	mm	Ф76 Ф89	
Dril Pipe Length	m	1.5 2.0 3.0)
Rig Lifting Force	Т	12	
Rapid Rise Speed	m/min	20	
Fast Feedilng Speed	m/min	40	
Width of Loading	m	2.4	
Hoisting Force of Winch	Т	1	
Swing Torque	N.m	3200-4600	
Dimensions	mm	4000×1700×2	200
The Penetration Effciency	m/h	10-35	
The Engine Brand	1	Quanchai or Yu	nnei

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CS Drill[®]

Product Features:

- 1. Adopt Yunnei 58kw or Quanchai 55kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower
- 4. The chassis of the drilling rig is four-wheel walking, and this model needs to be equipped with a self-propelled kit.
- 5. Adopt a composite boom, the boom is small in size, long in stroke, double cylinder lifting force, and the drilling rig has a
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CSL180
Weight	Т	5.2
The Hole Diameter	mm	140-254
Drilling Depth	m	180
One-time Advance Length	m	3.6
Walking Speed	km/h	without/2.5
Gradeability	max.	without/30
Equipped Capacitor	kw	55 or 58
Working Air Pressure	Мра	1.7-2.5
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-70
High Leg Stroke	m	0.8
Drill Pipe Diameter	mm	Φ76 Φ89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	13
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	60
Width of Loading	m	2.4
Hoisting Force of Winch	Т	1
Swing Torque	N.m	2200-3000
Dimensions	mm	4800×2000×2600
The Penetration Effciency	m/h	10-35
The Engine Brand	1	Quanchai or Yunnei

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CS200/CSX200

Product Features:

- 1. Adopt Yunnei 65kw or Quanchai 76kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs
- 4. The drilling rig chassis can be made of steel and rubber. The steel track can adapt to more complex environments, and the rubber track has less damage to hard roads.
- 5. The composite boom is adopted, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CS200	CSX200
Weight	Т	5.5	4.7
The Hole Diameter	mm	140-254	
Drilling Depth	m	200	
One-time Advance Length	m	3.6	
Walking Speed	km/h	2.5	
Gradeability	max.	30	
Equipped Capacitor	kw	76 or 65	
Working Air Pressure	Мра	1.7-2.5	
Air Consumption	m³/min	17-31	
Swing Speed	rpm	45-70	
High Leg Stroke	m	1.4	
Drill Pipe Diameter	mm	Ф76 Ф89	
Dril Pipe Length	m	1.5 2.0 3.0	
Rig Lifting Force	Т	13	
Rapid Rise Speed	m/min	30	
Fast Feedilng Speed	m/min	60	
Width of Loading	m	2.4	
Hoisting Force of Winch	Т	1.5	
Swing Torque	N.m	3400-4700	
Dimensions	mm	4000×1700×22	00
The Penetration Effciency	m/h	10-35	
The Engine Brand	/	Quanchai or Yun	nei

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Product Features:

- 1. Adopt Yunnei 65kw or Quanchai 76kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrated, and the dual motors provide greater power, greater torque, more durability, and lower maintenance costs.
- 4. The chassis of the drilling rig is four-wheel walking, and this model needs to be equipped with a self-propelled kit.
- 5. It adopts a composite boom, which has a small boom volume, long stroke, double cylinder lifting, and large lifting onnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CSL200
	T	
Weight	·	5.5
The Hole Diameter	mm	140-254
Drilling Depth	m	200
One-time Advance Length	m	3.6
Walking Speed	km/h	without/2.5
Gradeability	max.	without/30
Equipped Capacitor	kw	76 or 65
Working Air Pressure	Мра	1.7-2.5
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-70
High Leg Stroke	m	0.8
Drill Pipe Diameter	mm	Ф76 Ф89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	13
Rapid Rise Speed	m/min	30
Fast Feedilng Speed	m/min	60
Width of Loading	m	2.4
Hoisting Force of Winch	Т	1.5
Swing Torque	N.m	3400-4700
Dimensions	mm	4800×2000×2600
The Penetration Effciency	m/h	10-35
The Engine Brand	1	Quanchai or Yunnei
- Note: District of the Control of t		de la Companya de la

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CSNYSL200

Product Features:

- 1. It adopts a full diesel 65kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrally formed, and the dual motors provide greater power and torque, which is more durable and has lower maintenance costs.
- 4. The whole machine uses a high-horsepower, low-torque three-wheel tractor to cope with more complex road conditions.
- It has high flexibility, is sturdy and durable, has little damage to the road surface, and is easy to move.
- 5. It adopts a composite boom with a small boom size, long stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CSNYSL200
Weight	T	4.7
The Hole Diameter	mm	140-254
Drilling Depth	m	200
One-time Advance Length	m	3.3
Walking Speed	km/h	20-40
Gradeability	max.	30
Equipped Capacitor	kw	65
Working Air Pressure	Мра	1.7-2.5
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-65
High Leg Stroke	m	1
Drill Pipe Diameter	mm	Φ76 Φ89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	13
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	1
Hoisting Force of Winch	Т	1
Swing Torque	N.m	3400-4700
Dimensions	mm	4350×1600×2450
The Penetration Effciency	m/h	10-35
The Engine Brand	1	Quanchai

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Product Features:

CS Drill

- 4. The drilling rig chassis adopts steel crawlers, which have strong environmental adaptability and can cope with more







Model/I	Item	Unit	CS260
Weight		Т	6.5
The Hole	Diameter	mm	140-305
Drilling De	epth	m	260
One-time	Advance Length	m	3.6
Walking S	peed	km/h	2.5
Gradeabil	ity	max.	30
Equipped	Capacitor	kw	77.3
Working A	Air Pressure	Мра	1.7-3.0
Air Consu	mption	m³/min	17-31
Swing Spe	eed	rpm	45-70
High Leg	Stroke	m	1.4
Drill Pipe	Diameter	mm	Φ76 Φ89
Dril Pipe l	Length	m	1.5 2.0 3.0
Rig Lifting	g Force	Т	15
Rapid Rise	e Speed	m/min	24
Fast Feed	ilng Speed	m/min	28
Width of I	Loading	m	2.73
Hoisting F	Force of Winch	Т	2
Swing Tor	que	N.m	4000-5300
Dimension	ns	mm	4000×1850×2300
The Penet	tration Effciency	m/h	10-35
The Engin	ne Brand	1	Yuchai

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Product Features:

- 1. Adopt Yuchai 75kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower
- 4. The chassis of the drilling rig is four-wheel walking. This model is divided into self-propelled and non-self-propelled.
- Self-propelled can be moved without adding a walking kit, and non-self-propelled needs to add a walking kit.

 5. Adopt a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.







M. 1.100		001070
Model/Item	Unit	CSL260
Weight	Т	5.5
The Hole Diameter	mm	140-305
Drilling Depth	m	260
One-time Advance Length	m	3.3
Walking Speed	km/h	Without/2.5
Gradeability	max.	Without/30
Equipped Capacitor	kw	77.3
Working Air Pressure	Мра	1.7-3.0
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-70
High Leg Stroke	m	1
Drill Pipe Diameter	mm	Φ76 Φ89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	15
Rapid Rise Speed	m/min	24
Fast Feedilng Speed	m/min	28
Width of Loading	m	2.73/2.1
Hoisting Force of Winch	Т	2
Swing Torque	N.m	4000-5300
Dimensions	mm	4800×2000×2600
The Penetration Effciency	m/h	10-35
The Engine Brand	/	Yuchai
- Note: Distance by a 120 state of a second		

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Product Features:

- 1. Adopt Yuchai 85kw engine, which provides sufficient power and high drilling efficiency
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs
- 4. The drilling rig chassis adopts steel crawlers, which has strong environmental adaptability and can cope with more complex roads.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CS280
Weight	T	7.6
The Hole Diameter	mm	140-305
Drilling Depth	m	280
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	85
Working Air Pressure	Мра	1.7-3.0
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-70
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Φ76 Φ89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	17
Rapid Rise Speed	m/min	25
Fast Feedilng Speed	m/min	30
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	5300-7600
Dimensions	mm	5900×1850×2360
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

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CS Drill®

Product Features:

- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower







Model/Item	Unit	CSL280
Weight	Т	7.6
The Hole Diameter	mm	140-305
Drilling Depth	m	280
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	85
Working Air Pressure	Мра	1.7-3.0
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-70
High Leg Stroke	m	1
Drill Pipe Diameter	mm	Ф76 Ф89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	17
Rapid Rise Speed	m/min	25
Fast Feedilng Speed	m/min	30
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	5300-7600
Dimensions	mm	5900×1900×2400
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

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Product Features:

- 1. Adopt Yuchai 85kw engine, which provides sufficient power and high drilling efficiency.
- The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower
- 4. The drilling rig chassis adopts steel crawlers, which have strong environmental adaptability and can cope with more complex roads.
- 5. Adopt composite boom, which has a small size but long stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CS300
Weight	Т	7.2
The Hole Diameter	mm	140-325
Drilling Depth	m	300
One-time Advance Length	m	3.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	85
Working Air Pressure	Мра	1.7-3.0
Air Consumption	m³/min	17-36
Swing Speed	rpm	45-70-140
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Ф76 Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	18
Rapid Rise Speed	m/min	22
Fast Feedilng Speed	m/min	40
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	5700-7500
Dimensions	mm	4100×2000×2500
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

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Product Features:

- 1. Adopt Yuchai 85kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs.
- 4. The chassis of the drilling rig is four-wheel walking, and this model needs to be equipped with a self-propelled kit.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







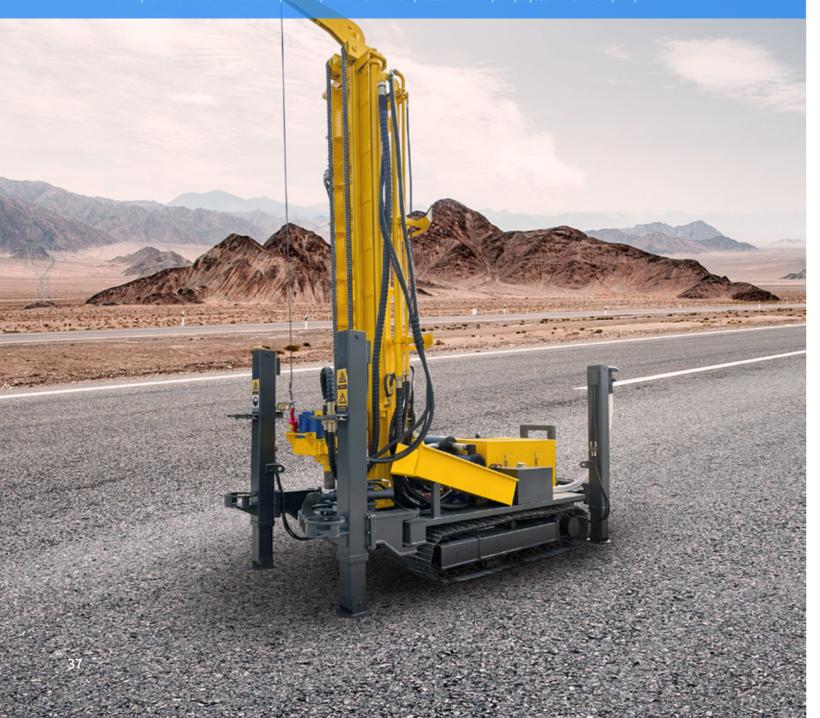
Model/Item	Unit	CSL300
Weight	Т	5.8
The Hole Diameter	mm	140-325
Drilling Depth	m	300
One-time Advance Length	m	3.6
Walking Speed	km/h	1
Gradeability	max.	1
Equipped Capacitor	kw	85
Working Air Pressure	Мра	1.7-3.0
Air Consumption	m³/min	17-36
Swing Speed	rpm	45-70-140
High Leg Stroke	m	0.8
Drill Pipe Diameter	mm	Ф76 Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	18
Rapid Rise Speed	m/min	22
Fast Feedilng Speed	m/min	40
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	5700-7500
Dimensions	mm	4850×1905×2350
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.



Product Features:

- 1. Adopt Yuchai 91kw engine, which provides sufficient power and high drilling efficiency.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower
- 4. The drilling rig chassis adopts steel crawlers, which has strong environmental adaptability and can cope with more
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CS350
Weight	Т	8.6
The Hole Diameter	mm	140-325
Drilling Depth	m	350
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	91
Working Air Pressure	Мра	1.7-3.4
Air Consumption	m³/min	17-36
Swing Speed	rpm	66-140
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	22
Rapid Rise Speed	m/min	18
Fast Feedilng Speed	m/min	33
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	6200-8500
Dimensions	mm	6000×2000×2550
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- l. Adopt Yuchai 91kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs.
- 4. The chassis of the drilling rig is four-wheel walking, and this model needs to be equipped with a self-propelled kit.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CSL350
Weight	Т	8.6
The Hole Diameter	mm	140-325
Drilling Depth	m	350
One-time Advance Length	m	6.6
Walking Speed	km/h	1
Gradeability	max.	1
Equipped Capacitor	kw	91
Working Air Pressure	Мра	1.7-3.4
Air Consumption	m³/min	17-36
Swing Speed	rpm	66-140
High Leg Stroke	m	1
Drill Pipe Diameter	mm	Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	22
Rapid Rise Speed	m/min	18
Fast Feedilng Speed	m/min	33
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	6200-8500
Dimensions	mm	6000×2000×2550
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- 1. Adopt Yuchai 96kw or Cummins 93kw engine, providing sufficient power and high drilling efficiency.
- The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs.
- 4. The drilling rig chassis adopts steel tracks, which has strong environmental adaptability and can cope with more complex roads
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump







Model/Item	Unit	CS400
Weight	Т	9.4
The Hole Diameter	mm	140-325
Drilling Depth	m	400
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	93 or 96
Working Air Pressure	Мра	1.7-3.4
Air Consumption	m³/min	17-36
Swing Speed	rpm	66-140
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	25
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	2.7
Hoisting Force of Winch	Т	2
Swing Torque	N.m	6200-8500
Dimensions	mm	6000×2100×2600
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Cummins or Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- 1. Adopt Yuchai 96kw or Cummins 93kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs.
- 4. The chassis of the drilling rig is four-wheel walking, and this model needs to be equipped with a self-propelled kit.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump







Model/Item	Unit	CSL400
Weight	Т	9.4
The Hole Diameter	mm	140-325
Drilling Depth	m	400
One-time Advance Length	m	6.6
Walking Speed	km/h	1
Gradeability	max.	1
Equipped Capacitor	kw	93 or 96
Working Air Pressure	Мра	1.7-3.4
Air Consumption	m³/min	17-36
Swing Speed	rpm	66-140
High Leg Stroke	m	1
Drill Pipe Diameter	mm	Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	25
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	1
Hoisting Force of Winch	Т	2
Swing Torque	N.m	6200-8500
Dimensions	mm	6000×2100×2600
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Cummins or Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- 1. Adopt Yuchai 110kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs.
- 4. The drilling rig chassis adopts steel crawlers, which has strong environmental adaptability and can cope with more complex roads.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.





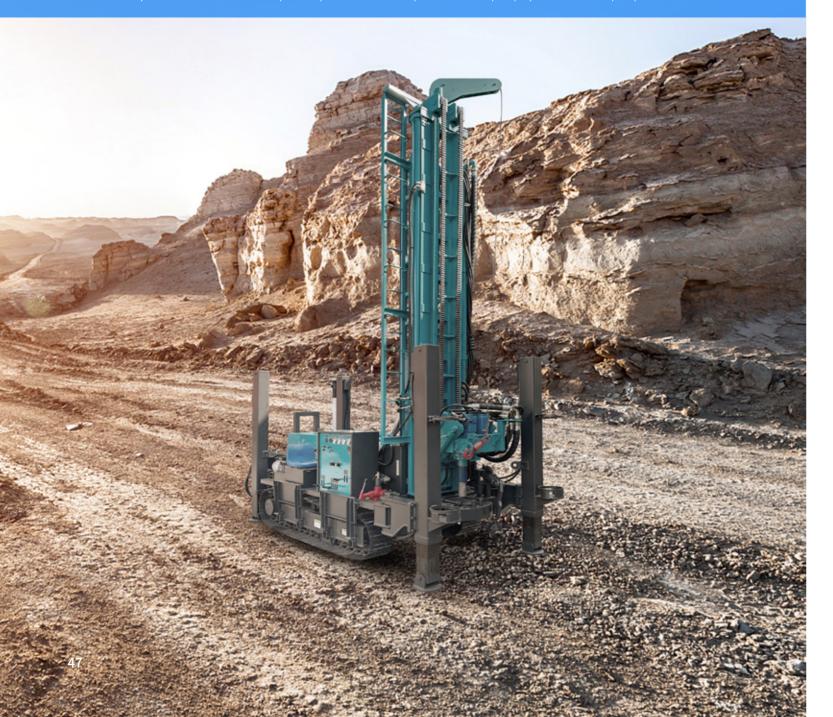


Model/Item	Unit	CS450
Weight	Т	9.2
The Hole Diameter	mm	140-350
Drilling Depth	m	450
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	110
Working Air Pressure	Мра	1.7-3.5
Air Consumption	m³/min	17-36
Swing Speed	rpm	30-135
High Leg Stroke	m	1.6
Drill Pipe Diameter	mm	Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	25
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	2.8
Hoisting Force of Winch	Т	2
Swing Torque	N.m	7000-9500
Dimensions	mm	6150×2200×2600
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai
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[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- 1. Cummins 112kw engine is used to provide sufficient power, high drilling efficiency and convenient subsequent maintenance
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable and lower maintenance costs
- 4. The drilling rig chassis adopts steel crawler tracks, which has strong environmental adaptability and can cope with more complex road surfaces.
- 5. It adopts a composite boom with a small size but long stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pip
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump







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Model/Item	Unit	CS500
Weight	Т	11.5
The Hole Diameter	mm	140-350
Drilling Depth	m	500
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	112
Working Air Pressure	Мра	1.7-2.5
Air Consumption	m³/min	17-42
Swing Speed	rpm	40-130
High Leg Stroke	m	1.6
Drill Pipe Diameter	mm	Ф102 Ф108 Ф114
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	26
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	2.85
Hoisting Force of Winch	Т	2
Swing Torque	N.m	7500-10000
Dimensions	mm	6200×2200×2650
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Cummins

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

CS Drill

CS600

Product Features:

- 1. Adopt Weichai 129kw engine, which provides sufficient power and high drilling efficiency.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable, and lower maintenance costs.
- 4. The drilling rig chassis adopts steel tracks, which has strong environmental adaptability and can cope with more complex roads.
- 5. It adopts a composite boom, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump





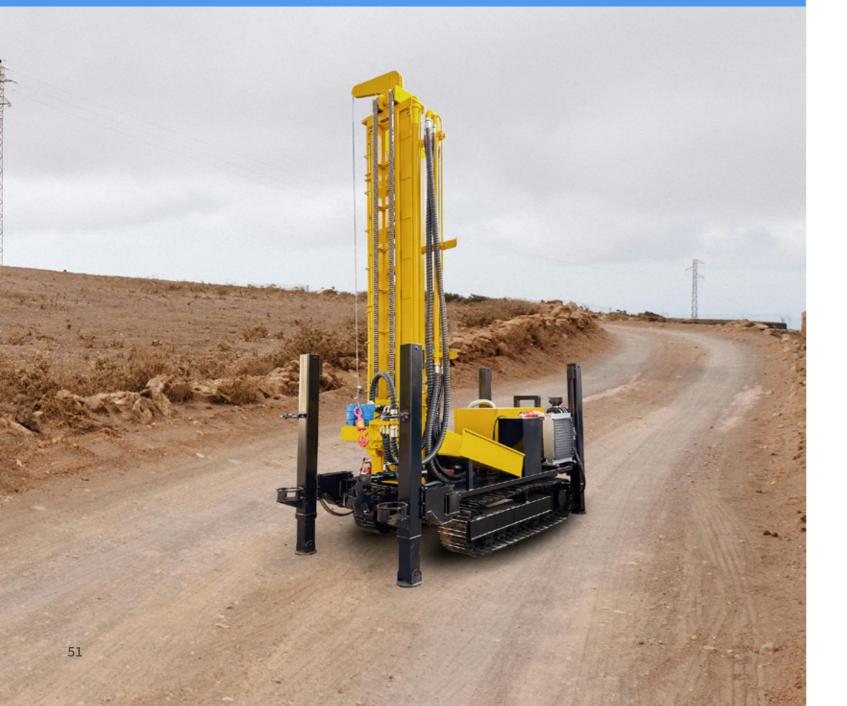


Model/Item	Unit	CS600
Weight	Т	9.2
The Hole Diameter	mm	140-400
Drilling Depth	m	600
One-time Advance Length	m	6.6
Walking Speed	km/h	2-3
Gradeability	max.	25
Equipped Capacitor	kw	129
Working Air Pressure	Мра	1.7-3.5
Air Consumption	m³/min	17-42
Swing Speed	rpm	40-160
High Leg Stroke	m	1
Drill Pipe Diameter	mm	Φ76 Φ89 Φ102 Φ114
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	kn	300
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Hydraulic Cooling System	1	Air Cooling
Hoisting Force of Winch	kn	20
Max. Swing Torque	N.m	12000
Dimensions	mm	4700×2100×2500
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Weichai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- 1. Cummins 153kw engine is used to provide sufficient power, high drilling efficiency and convenient subsequent maintenance.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable bower distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable and lower maintenance costs.
- 4. The drilling rig chassis adopts steel crawlers, which have strong environmental adaptability and can cope with more complex road surfaces.
- 5. It adopts a composite boom with a small size but long stroke, double cylinder lifting, and large lifting tonnage.
- 6. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe
- 7. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CS700
Weight	Т	13
The Hole Diameter	mm	140-400
Drilling Depth	m	700
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	153
Working Air Pressure	Мра	1.7-2.5
Air Consumption	m³/min	17-42
Swing Speed	rpm	45-140
High Leg Stroke	m	1.7
Drill Pipe Diameter	mm	Ф102 Ф108 Ф114
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	30
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	2.25
Hoisting Force of Winch	Т	2
Swing Torque	N.m	9500-13150
Dimensions	mm	6200×2200×2650
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Cummins

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Product Features:

- 1. Cummins 153kw engine is used to provide sufficient power, high drilling efficiency and convenient subsequent mainte nance.
- 2. The hydraulic oil pump is a parallel gearbox design, and the oil pump is separated to provide sufficient and reasonable power distribution.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable and lower maintenance costs.
- 4. The drilling rig chassis adopts steel crawlers, which are sturdy and durable and have a heavy load capacity.
- 5. The composite boom is used, which is small in size but long in stroke, double cylinder lifting, and large lifting tonnage.
- o. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pip
- 7 Dual systems can be added: 1 Air power system with air compressor 2. Mud pump system with mud pump







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Model/Item	Unit	CS800
Weight	Т	13
The Hole Diameter	mm	140-400
Drilling Depth	m	800
One-time Advance Length	m	6.6
Walking Speed	km/h	2.5
Gradeability	max.	30
Equipped Capacitor	kw	153
Working Air Pressure	Мра	1.7-3.5
Air Consumption	m³/min	17-42
Swing Speed	rpm	45-140
High Leg Stroke	m	1.7
Drill Pipe Diameter	mm	Ф102 Ф108 Ф114
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	30
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	2,95
Hoisting Force of Winch	Т	2
Swing Torque	N.m	8850-13150
Dimensions	mm	6300×2300×2950
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Cummins

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Product Features:

- 1. Adopt 280kw engine to effectively meet the needs of work. It has dual functions of water and gas.
- 2. The drilling rig is equipped with hydraulic feed system, dual hydraulic motor power head, chain drive, hydraulic cylinder propulsion, large torque and fast drilling speed.
- 3. The power head box is integrated, and the dual motors provide greater power and torque, more durable and lower
- 4. The drilling rig chassis adopts steel crawler, which is sturdy and durable and has heavy load capacity.
- 6. Equipped with hydraulic lifting composite drill arm, it saves space and provides strong lifting force for deep hole







Model/Item	Unit	CS1000
Water Drilling Depth	m	600
Air Drilling Depth	m	1000
Lifting Force (Double Cylinder)	Т	40
One-time Advance Length	m	6.6
Max. Rotation Speed	rpm	300
Max. Torque	N.m	14000-25000
Lift Mode	/	Cylinder chain
Winch Lifting Force	Т	5/1.5
Track	1	Steel tracks
Track Shoe Width	mm	450
Walking Speed	km/h	3
Height From Ground	mm	Not less than 1650
Dynamo	kw	24
Equipped Capacitor	kw	280
Dimensions (Transport)	mm	6000*2200*2700
Dimensions (Working)	mm	6000*2200*8800
Weight	Т	14

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.



CSCZ200

Product Features:

- 1. Adopt Yuchai 260kw engine, which is powerful and can effectively meet the needs of work.
- Adopt the well-known brand HOWO 4x6 chassis, 2 front and 8 rear, and the walking speed reaches 80km/h.
 The power head box is integrated, and the dual motors provide greater power, greater torque, more durability, and lower
- 5. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 6. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CSCZ200
Weight	Т	12 (excluding air compressor)
The Hole Diameter	mm	140-254
Drilling Depth	m	200
One-time Advance Length	m	3.3
Walking Speed	km/h	0-80
Gradeability	max.	30
Equipped Capacitor	kw	260
Working Air Pressure	Мра	1.7-2.5
Air Consumption	m³/min	17-31
Swing Speed	rpm	45-80
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Ф76 Ф89
Dril Pipe Length	m	1.5 2.0 3.0
Rig Lifting Force	Т	15
Rapid Rise Speed	m/min	30
Fast Feedilng Speed	m/min	60
Width of Loading	m	1
Hoisting Force of Winch	Т	1.5
Swing Torque	N.m	3500-5500
Dimensions	mm	12000×2700×2900
The Penetration Effciency	m/h	10-35
The Engine Brand	1	Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

CSCZ350

Product Features:

- 1. Adopt Yuchai 260kw engine, which is powerful and can effectively meet the needs of work.
- 2. Adopt the well-known brand HOWO 4x6 chassis, 2 front and 8 rear, and the walking speed reaches 80km/h.
- 3. The power head box is integrated, and the dual motors provide greater power, greater torque, more durability, and lower maintenance costs.
- 4. Adopt composite boom, small boom volume, long stroke, dual cylinder lifting force, drilling rig lifting tonnage.
- 5. Each hydraulic oil pipe is covered with a thickened protective sleeve to extend the service life of the oil pipe.
- 6. Dual systems can be added: 1. Air power system with air compressor 2. Mud pump system with mud pump.







Model/Item	Unit	CSCZ350
Weight	Т	13 (excluding air compressor)
The Hole Diameter	mm	140-325
Drilling Depth	m	350
One-time Advance Length	m	6.6
Walking Speed	km/h	0-80
Gradeability	max.	30
Equipped Capacitor	kw	260
Working Air Pressure	Мра	1.7-3.4
Air Consumption	m³/min	17-36
Swing Speed	rpm	66-140
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Ф89 Ф102
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	22
Rapid Rise Speed	m/min	18
Fast Feedilng Speed	m/min	33
Width of Loading	m	1
Hoisting Force of Winch	Т	2
Swing Torque	N.m	6200-8500
Dimensions	mm	12000×2700×3000
The Penetration Effciency	m/h	15-35
The Engine Brand	1	Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.



CSCZ500

Product Features:

- 2. Adopt the well-known brand HOWO 4x6 chassis, 2 front and 8 rear, and the walking speed reaches 80km/h.
- 4. Adopt composite boom, small boom volume, long stroke, dual cylinder lifting force, drilling rig lifting tonnage.







Model/Item	Unit	CSCZ500
Weight	Т	14 (excluding air compressor)
The Hole Diameter	mm	140-350
Drilling Depth	m	500
One-time Advance Length	m	6.6
Walking Speed	km/h	0-80
Gradeability	max.	30
Equipped Capacitor	kw	260
Working Air Pressure	Мра	1.7-3.4
Air Consumption	m³/min	17-36
Swing Speed	rpm	66-140
High Leg Stroke	m	1.4
Drill Pipe Diameter	mm	Ф102 Ф108 Ф114
Dril Pipe Length	m	1.5 2.0 3.0 6.0
Rig Lifting Force	Т	26
Rapid Rise Speed	m/min	20
Fast Feedilng Speed	m/min	40
Width of Loading	m	1
Hoisting Force of Winch	Т	2
Swing Torque	N.m	7500-10000
Dimensions	mm	12000×2700×3100
The Penetration Effciency	m/h	15-35
The Engine Brand	/	Yuchai

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

MULTIFUNCTIONAL—CSMF600

Product Features:

CS Drill

- 1. The drilling rig has three uses: water well, reverse circulation, and coring.
- 2. Low failure rate, small size, and high torque. The rotation speed can be adjusted according to different working conditions to effectively improve the impactor penetration efficiency.
- 3. The hydraulic system is equipped with an independent hydraulic oil radiator to ensure that the drilling rig can work continuously under high temperature outdoor climate conditions.
- 4. The reliable and efficient air pre-filter system effectively filters out dust in the intake air, is easy to clean and maintain, effectively reduces engine wear, extends service life, and improves work efficiency, making it suitable for harsh working



Used As Reverse Circulation Drilling Rig





drilling rig and water well drilling rig , The power head is as

Model/Item	Unit	CSMF-600 (RC drilling rig)
Weight	kg	12000
Dimension (Transport)	mm	6300x2100x2500
Dimension (Working)	mm	4500x3000x6800
Drilling Depth	m	500
The Hole Diameter	mm	105-400
Drill Pipe Diameter	1	Ф89 Ф102 Ф114
Drill Head Lift Force	kN	300
Drill Head Feed Force	kN	150
Rotary Speed	rpm	40-160
Max. Torque	N.m	12000
Drill Head Feed Stroke	mm	3300
Drill Mast Slide Stroke	mm	1000
Hydraulic Pumps	/	160ml/r. 16MPa
Hydraulic Cooling System	1	Water Cooling
Mechanical Winch Capacity	kN	20
Power Unit	1	Cummins 6-cylinder engine 132kw/2400
Air Pressure	MPa	1.7-3. 5
Air Consumption	m³/min	17-42
Equipped with Hammer	1	Medium and High pressure series
Mud Pump	1	BW160/BW250(optional)
Crawler Climbing Angle	0	25
Crawler Walking Speed	km/h	2-3

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

S CS Drill[®]

Used As Water Well Drilling Rig





NOTE: When CSMF600 is used as Reverse circulation drilling rig and water well drilling rig, The power head is as shown in the figure.

Specification Parameter

Model/Item	Unit	CSMF-600 (Water well drilling rig)
Weight	Т	9.2
Dimensions (Transport)	mm	4700x2100x2500
Dimensions (Working)	mm	4000x2900x6800
Drilling Depth	m	600
Drilling Diameter	mm	140-400
Drill Pipe Diameter	mm	Ф76 Ф89 Ф102 Ф114
Drill Head Lift Force	kN	300
Drill Head Feed Force	kN	150
Rotary Speed	rpm	40-160
Max. Torque	N.m	12000
Drill Head Feed Stroke	mm	6600
Rapid Rise Speed	m/min	20
Fast Feeding Speed	m/min	40
Hydraulic Cooling System	1	Air Cooling
Mechanical Winch Capacity	kN	20
Power Unit	1	Weichai 129kW/2200
Air Pressure	Мра	1.7-3. 5
Air Consumption	m³/min	17-42
Equipped with Hammer	1	Medium and High pressure series
Mud Pump		BW160/BW250(Optional)
Crawler Climbing Angle	o	25
Crawler Walking Speed	km/h	2-3

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

Used As Diamond Core Drilling Rig





NOTE: When CSMF600 is used as diamond core drilling rig, the power head needs to be replaced with a 1600 Rotation head(As shown in the figure above).

Specification Parameter

Model/Item	Unit	CSMF-600 (Diamond core drilling rig
BTW	m	1800
NTW	m	1600
HTW	m	1400
Dimension (Transport)	mm	5900x2100x2400
Dimension (Working)	mm	5900x2650x8100
Driling Angle	0	45-90
Drill Head Lift Force	kN	460
Drill Head Feed Force	kN	230
Rotary Speed	rpm	0-1100
Max. Torque	N.m	4000
Drill Head Feed Stroke	mm	3500
Drill Mast Slide Stroke	mm	1200
Hydraulic Pumps	kN	Primary pump 145m1/r, 32 Auxiliary pump 96m1/r, 25
Hydraulic Cooling System	1	Water cooling+Air cooling
Power Unit	1	Weichai 6-cylinder engine 140kW/200
Hydraulic Winch Capacity	m	1600
Mechanical Winch Capacity	kN	30
Winch Lifting Speed	m/min	110
Mud Pump	1	BW250
Crawler	1	10T Steel 400mm*43
Crawler Climbing Angle	0	25
Crawler Walking Speed	km/h	2-3
Weight	kg	10000

[•] Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

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APPLICATION CASES

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