齐鲁中晟
QILUZHONGSHENG



诚信·创新·共赢·发展
INTEGRITY, INNOVATION, WIN-WIN DEVELOPMENT

日照中晟机械有限公司

Rizhao ZhongSheng Machinery Co, Ltd

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Rizhao ZhongSheng Machinery co, Ld

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【我们的理念】激情 创新 卓越 高效

【我们的宗旨】以品质求生存 以诚信谋发展

【我们的目标】在我们的领域永远争创第一

【我们的精神】勇于创新 团结协作 共创辉煌



齐鲁中晟 QILUZHONGSHENG

公司简介 Company profile

日照中晟机械有限公司(简称：中晟钻机)位于环境优美，交通便利的海滨城市一日照. 是国内研发制造多功能液压潜孔钻机、锚固钻机、水井钻机、岩心钻机、反循环钻机、全液压一体车载钻机及一系列重型掘进机械的专业化公司，

中晟钻机下设：技术设计研发中心、质量检验检测中心、销售服务中心等,同时与国内外上百家优质配套企业达成共识，成为战略合作伙伴.中晟钻机秉承“ 专业、传承创新 ”的企业思想，将自主研发作为企业生存与发展的生命线，以不断创新的设计理念、可靠的产品性能、良好的服务质量打造国内高端掘进工程机械品牌!公司创始人在此行业从业10余年，始终站在用户角度，以用户需求为中心贯彻质量标准，使用 ”中晟 ”牌系列钻机更加贴近用户需求，形成了 ”用户需求，中晟追求 ”的市场经营理念。公司始终坚信 ”市场是检验产品的唯一标准 ”,紧跟市场需求不断创新，永远满足客户需求为企业责任，真诚与用户合作，共创美好未来!

Rizhao Zhongsheng Machinery Co., Ltd. (abbreviated as Zhongsheng Drilling Rig) is located in Rizhao, a beautiful coastal city with convenient transportation. It is a professional enterprise in China specializing in the R&D and manufacturing of multifunctional hydraulic down-the-hole drills, anchor drills, water well drills, core drills, reverse circulation drills, fully hydraulic integrated truck-mounted drills, and a full range of heavy-duty tunneling machinery.

Zhongsheng Drilling Rig has established several divisions, including a Technology R&D Center, a Quality Inspection & Testing Center, and a Sales & Service Center. Meanwhile, it has reached strategic cooperation agreements with more than 100 high-quality supporting enterprises at home and abroad

Adhering to the corporate philosophy of "Professionalism, Inheritance and Innovation", Zhongsheng Drilling Rig regards independent R&D as the lifeline for its survival and development. It strives to build a high-end domestic brand of tunneling engineering machinery with innovative design concepts, reliable product performance and excellent service quality.

The founder of the company has more than 10 years of experience in this industry. He has always stood from the users' perspective, centered on user needs in implementing quality standards, and made "Zhongsheng" series drilling rigs better meet user demands, forming the business philosophy of "User Needs, Zhongsheng Pursuits"

The company firmly believes that "the market is the sole criterion for testing products". It keeps pace with market demands for continuous innovation, takes satisfying customer needs as its corporate responsibility, and sincerely cooperates with users to create a better future!

FULONGGOUCHENG

ZS-200S水井钻机技术参数

ZS-200S water well driling rig technical parameters

最大钻孔深度 Drilling depth	180/200m	最大回转扭矩 Swing torque	6000/3000Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.1T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUCHAI
钻杆长度 Drill pipe length	3m	发动机品牌 Engine brand	玉柴58KW Yuchai 58KW
一次性推进长度 One-time advantage length	3.6M	行走速度 Nalking speed	2.5Km/h
最大提升力 Rig lifting force	13T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机重量(钢制履带) Neight(Steel track)	5650KG
最大回转速度 Swing speed	80/160r/min	整机重量(橡胶履带) Neight(Rubber track)	5200KG
整机尺寸(长x宽x高) Diemsion(L*W*H)		3960×1700×2300mm	



ZS-260S水井钻机技术参数

ZS-260S water well driling rig technical parameters

最大钻孔深度 Drilling depth	260m	最大回转扭矩 Swing torque	7000/3500Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Ninch lifting force	1.1T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUNNEI/QUANCHAI
钻杆长度 Drill pipe length	4m	发动机品牌 Engine brand	玉柴77.3KW Yuchai 77.3KW
一次性推进长度 One time advantage length	4.5M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	13T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	4650x1700x2300mm
最大回转速度 Swing speed	80/160r/min	整机重量(钢制履带) Weight(Steel track)	6600KG



ZS-280S水井钻机技术参数

ZS-280S water well driling rig technical parameters

最大钻孔深度 Dril ing depth	280m	最大回转扭矩 Swing torque	7000/3500Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.1T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUCHAI
钻杆长度 Drill pipe length	3m/6m	发动机品牌 Engine brand	玉柴77.3KW Yuchai 77.3KW
一次性推进长度 One-time advantage length	6.6M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	16T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feedi ng speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	5800×1700×2400mm
最大回转速度 Swing speed	80/160r/min	整机重量(钢制履带) Weight(Steel track)	7600KG



ZS-300S水井钻机技术参数

ZS-300S water well driling rig technical parameters

最大钻孔深度 Drilling depth	300m	最大回转扭矩 Swing torque	8000/4000Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Ninch lifting force	1.1T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUCHAI
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	玉柴85KW Yuchai 85KW
一次性推进长度 One-time advantage length	6.6M	行走速度 Nalking speed	2.5Km/h
最大提升力 Rig lifting force	16T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	5800×1700×2400mm
最大回转速度 Swing speed	80/160r/min	整机重量(钢制履带) Weight(Steel track)	7600KG



ZS-350S水井钻机技术参数

ZS-350S water well driling rig technical parameters

最大钻孔深度 Drilling depth	350m	最大回转扭矩 Swing torque	8000/4000Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.1T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUCHAI
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	玉柴91 Yuchai 91KW
一次性推进长度 One-time advantage length	6.6M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	16T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feedilng speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	5800×1700×2400mm
最大回转速度 Swing speed	80/160r/min	整机重量(钢制履带) Weight(Rubber track)	7800KG



ZS-400S水井钻机技术参数

ZS-400S water well driling rig technical parameters

最大钻孔深度 Dril ing depth	400m	最大回转扭矩 Swing torque	9000/4500Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Ninch lifting force	1.5T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUCHAI
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	玉柴股份92六缸 Yuchai 92 six-cylinder
一次性推进长度 One-time advantage length	6.6M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	22T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6000×1800×2400mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Stee track)	8000KG



ZS-450S水井钻机技术参数

ZS-450S water well driling rig technical parameters

最大钻孔深度 Drilling depth	450m	最大回转扭矩 Swing torque	9000/4500Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.5T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	YUCHAI
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	玉柴股份92六缸 Yuchai 92 six-cylinder
一次性推进长度 One-time advantage length	6.6M	行走速度 Nalking speed	2.5Km/h
最大提升力 Rig lifting force	22T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6000×1800×2400mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Steel track)	9000KG



ZS-550S水井钻机技术参数

ZS-550S water well driling rig technical parameters

最大钻孔深度 Drilling depth	550m	最大回转扭矩 Swing torque	11000/5500Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.5T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	WEICHAI
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	潍柴129KW六缸 Weichai 129KW six-cylinder
一次性推进长度 One-time advantage length	6.6M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	26T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feedi ing speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6000×1800×2400mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Ste l track)	9000KG



ZS-650S水井钻机技术参数

ZS-650S water well driling rig technical parameters

最大钻孔深度 Drilling depth	650m	最大回转扭矩 Swing torque	13000/6500Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efficiency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.5T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	Cummins
钻杆长度 Dril pipe length	6m	发动机品牌 Engine brand	康明斯132KW六缸 Cummins 132KW six-cylinder
一次性推进长度 One time advantag length	6.6M	行走速度 Wa king speed	2.5Km/h
最大提升力 Rig lifting force	36T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6400×2000×2650mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Steel track)	12000KG



ZS-750S水井钻机技术参数

ZS-750S water well driling rig technical parameters

最大钻孔深度 Drilling depth	750m	最大回转扭矩 Swing torque	13000/8000Nm
钻孔直径 The hole diameter	ф105-325mm	进尺效率 The penetration efflciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	1.5T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	Cummins
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	康明斯153KW六缸 Cummins 153KW six-cylinder
一次性推进长度 One-time advantage length	7M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	45T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6400×2000×2650mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Steel track)	13000KG



ZS-850S水井钻机技术参数

ZS-850S water well driling rig technical parameters

最大钻孔深度 Drilling depth	1000m	最大回转扭矩 Swing torque	13000/8000Nm
钻孔直径 The hole diameter	ф105-400mm	进尺效率 The penetration effIciency	10-35m/h
推荐工作风压 Working air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	3T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	Cummins
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	康明斯 153kw Cummins 153kw
一次性推进长度 One-time advantage length	7M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	45T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6400×2000×2850mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Steel track)	13500KG



ZS-1000S水井钻机技术参数

ZS-1000S water well driling rig technical parameters

最大钻孔深度 Drilling depth	1000m	最大回转扭矩 Swing torque	13000/8000Nm
钻孔直径 The hole diameter	ф105-400mm	进尺效率 The penetration effIciency	10-35m/h
推荐工作风压 Norking air pressure	1.2-3.5MPa	卷扬提升力 Winch lifting force	3T
推荐耗风量 Air consumption	16-55m³/min	发动机功率 Engine	Cummins
钻杆长度 Drill pipe length	6m	发动机品牌 Engine brand	康明斯194KW六缸 Cummins 194KW six-:ylinder
一次性推进长度 One-time advantage length	7M	行走速度 Walking speed	2.5Km/h
最大提升力 Rig lifting force	45T	爬坡能力 Climbing angles	21°
快推速度 Rapld rise speed	55m/min	高支腿行程 High leg stroke	1.4m
快提速度 Fast feediling speed	30m/min	整机尺寸(长x宽x高) Diemsion(L*W*H)	6400×2000×2850mm
最大回转速度 Swing speed	90/180r/min	整机重量(钢制履带) Weight(Steel track)	13500KG



车载钻机
Truck mounted drilling rig

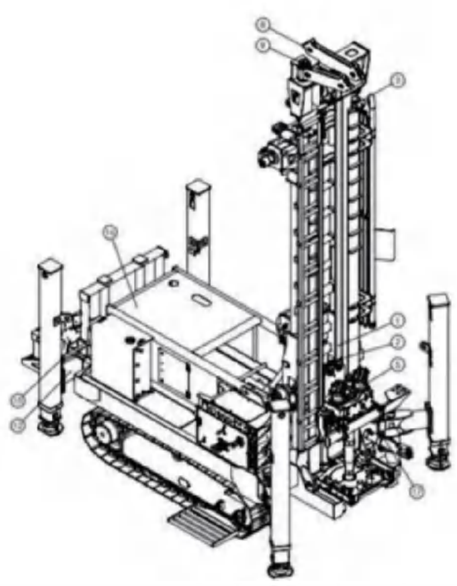


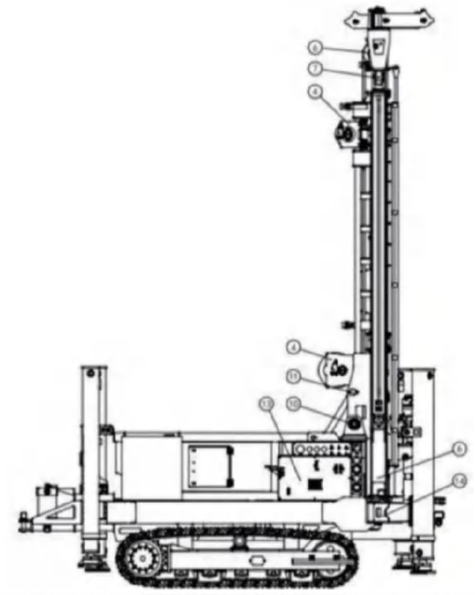


技术参数Technical Parameters >>>

项目(PROJECT)	型号（MODEL）	
技术参数 (Technical parameters)	ZS 300c	ZS 400c
最大钻孔深度 (Drilling depth)	300m	400m
钻孔直径 (The hole diameter)	Φ105-Φ325mm	Φ105-Φ400mm
推荐工作风压 (Using air pressure)	1.2-3.5MPa	1.2-3.5MPa
推荐耗风量 (Air consumption)	16-55m³/min	16-55m³/min
一次性推进长度 (One-time advance length)	6.6	6.6
钻杆长度 (Drill pipe length)	3m/6m	6m
推荐钻杆直径 (Drill pipe diamete)	89/102mm	89/102mm
最大提升力 (Rig lifting force)	15T	18T
快进速度 (m/min) (Fast feeding speed)	55m/min	55m/min
快升速度 (m/min) (Rapld rise spoed)	30m/min	30m/min
最大回转速度 (Swing speed)	80/160r/min	90/180r/min
最大回转扭矩 (N.m) (Swing torque)	6500/3250Nm	9000/4500Nm
进尺效率 (The penetration efflciency)	10-35m/h	10-35m/h
卷扬提升力 (Lifting force of the winch)	1.1T	1.1T/2.5T（选配） 1.1T/2.5T(Optional)
发动机功率 (Equipped capacitor)	73Kw（玉柴85选配） 73Kw(Yuchai85Optional)	92Kw
行走速度(km/h) (Walking speed)	Car speed	Car speed
高支腿行程 (High leg stroke)	0.6m	0.6m
整机尺寸（长×宽×高） (Dimension)	Car	Car
整机重量 (The weight)	6.8T	7.5T
配冲击器 (Hoisting force of winch)	中、高风压系列 Medium and high wind pressure series	中、高风压系列 Medium and high wind pressure series
柴油机品牌(The engine)	玉柴发动机（Yuchai engine）	玉柴发动机（Yuchai engine）

Drilling rig structure introduction





The mechanical structure includes four parts: chassis, frame, slide frame, and power head assembly.

★ Chassis assembly: mainly includes the walking frame and the standard four-wheel belt for construction machinery. The four-wheel belt includes the guide wheel tensioning device assembly, supporting rollers, supporting sprockets, driving wheels and chain rail track shoes. The four-wheel belt is driven by a high-pressure plunger motor. The driving wheel enables the drilling rig to move.

★ Frame assembly: It consists of frame assembly and welding, hydraulic oil tank, etc. The engine, radiator, hood and other components are installed in the middle of the frame, and the console, fuel tank, battery and other accessories are installed on both sides. The four outriggers are installed at the four opposite corners of the frame. The centering device is welded at the front end of the frame, the traction device is welded at the rear end, and the chassis and frame are connected by bolts.

★ Slide part: composed of inner and outer slides, sprockets and chains. A power head is installed on the slide plate, and the slide plate and the chain are connected to realize the lifting and sliding of the power head on the slide frame through the lifting and lowering of the propelling cylinder. The main winch and auxiliary winch can be optionally installed on the sliding frame for functions such as running casing and hoisting drilling tools.

★ Power head assembly: that is, the reduction gearbox assembly consists of a box body, a box cover, an output shaft, gears, bearings, seals, etc. The upper end is connected to the air pipe to input compressed air into the impact drill bit, and the lower end is connected to the drill pipe. The rotary motor and gear connection enable the power head to rotate forward and reverse, thereby driving the cutting rotation of the drill bit. The power system includes power transmission, engine cooling, intake and exhaust, shock absorption, and fuel. and other subsystems.

★ Transmission: A high-strength elastic coupling is used in the middle of the engine to connect the engine and the hydraulic pump to provide power for the drilling rig. For plateau operations, higher-horsepower plateau machines can be customized

★ Power head assembly lubrication: The bearings and gear pairs in the power head box are rotating and require continuous lubrication and heat dissipation.

★ Engine lubrication: The lubrication of the crankshaft and gear pairs inside the engine is maintained strictly in accordance with the manufacturer's requirements.

★ Power head slide rail lubrication: The power head base and the inner slide slide relative to each other. Apply grease to reduce friction.

★ Chain lubrication: Apply grease to the chain to reduce friction with the sprocket and prevent the chain shaft from rusting.

★ Lubrication of flat extension square tubes and outrigger square tubes: Apply grease to the mating surface of the square tube to make the expansion and contraction smoother.

★ Lubrication of each rotating pin: Reduce friction between the rotating pairs and prevent rust and inability to rotate.

★ Drill tool lubrication: When the drilling rig is operating, the air inlet pipe of the oil injector passes through the compressed air, generating negative pressure in the oil injector. The lubricating oil in the oil injector is sucked into the air duct through the poppet valve, and is turned into mist and sprayed to the impactor to fully lubricate the impact. Hammer body, bit and spline part.

★ other……

Drilling rig features >>>

1. Mid-to-high-end configuration of core components
Engine: Yuchai Co., Ltd./Yuchai Power.
Operating valve: Shanghai Qiangtian/Taiwan Oil.
Hydraulic pump: American Pomco/Jinan Military Industry.
Rotary motor: American Eaton/Jining first-line brand.
Promotion chain: Donghua/Hengjiu

2. The size of the whole machine is compact and reasonable.

3. Reliability design

4. Convenient later maintenance
The engine room can be raised and lowered with the carriage to facilitate the replacement and maintenance of the engine filter and oil filter.
The air filter + oil bath air filter are both external, making it easy to clean the filter element and replace the filter oil.

troubleshooting >>>

When troubleshooting, the principle should be followed from simple to complex and from easy to difficult to avoid unnecessary waste of manpower and material resources and time delay. The following only lists some common faults of drilling rigs that are easy for customers to troubleshoot themselves, as well as the corresponding troubleshooting methods. If the same fault occurs, you can refer to this table for troubleshooting. If there are any unresolved faults, please contact our after-sales service personnel in time.

Fault phenomenon	Possible Causes	Method of exclusion	Fault phenomenon	Possible Causes	Method of exclusion
Valve stem cannot be reset	There is dirt clogged in the gap between the valve core and the valve body or the valve core is rusty.	Clean the valve core	The main shaft of the power head has a large gap and vibrates	Bearing wear and damage	Replace reducer bearings
				The lower pressure cover has a large gap	Adjust the lower gland gap
	The return spring is damaged	Replace the return spring.	Power head reverse unloading rod is weak	New drill pipe and not greased	Apply butter to the drill pipe threads
	The operating lever mechanism is stuck	Disassemble and clean the operating lever mechanism in the valve cover.		The rotary system pressure is low	Check the pressure gauge and find out why
Valve stem cannot be positioned	The positioning spring is damaged, deformed or the positioning groove is worn.	Replace the spring or positioning sleeve	Propulsion is slow and weak	Counter-axis pressure is too high	Reduce the counter-axis pressure and increase the axial pressure
	The operating lever mechanism is stuck	Disassemble and clean the operating lever mechanism in the valve cover		Relief valve problem	Clean and replace the relief valve
				The propulsion cylinder leaks internally	Replace the cylinder seal.
Power head oil leakage	The rotary motor shaft seal leaked oil into the box.	Disassemble and inspect the rotary motor	Weakness in walking	Low pressure on walking system	Clean and replace the traveling relief valve
				The track is stuck	Check the four-wheel area
	Oil seal is worn	Replace the skeleton oil seal	The whole vehicle is powerless and slow	Coupling connection problem	Check the coupling
	The main shaft of the reducer is worn	Replace the power head spindle		Engine power is low	Overhaul the engine and recalibrate the power
	The air seal is worn and air is entering the box.	Replace air seal			
Oil leaking from exhaust valve				The hydraulic pump is worn	Replace hydraulic pump
	The temperature inside the box is too hot.	Shut down to cool down		Problem with the main relief valve of the hydraulic system	Clean and replace the relief valve