CHANGKUN GEO

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DRILLING EQUIPMENT SERIES

Exploration Drilling Rigs
Drilling Tools



Company Profile

CHANGKUN GEO

CHANGKUN GEOLOGICAL EXPLORATION CO., LTD.





CHANGKUN GEOLOGICAL EXPLORATION
EMPOWERING
THE WEST AFRICAN MINING INDUSTRY



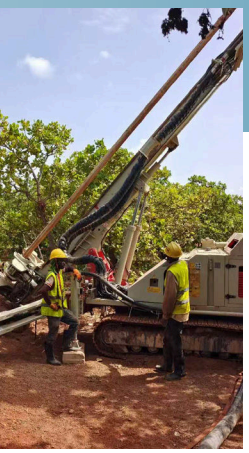
ABOUT CHANGKUN GEO

Changkun Geological Exploration Co., Ltd. was jointly founded by a team of senior geological exploration engineers and senior construction engineers. With long-term engagement in the West African mining market, the company focuses on geological exploration and mining services for gold, bauxite, and other mineral resources, accumulating extensive on-site experience in Guinea and neighboring countries.

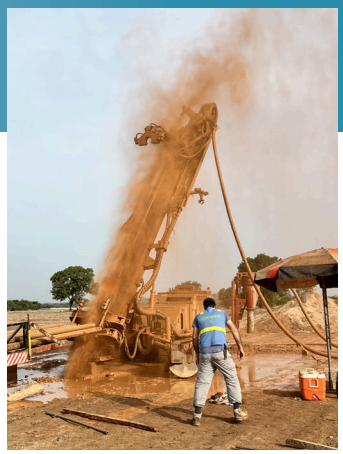
Driven by continuous field exploration practices, Changkun has established an integrated business system covering exploration technical services, drilling rig R&D and manufacturing, drilling tools supply, and supply chain integration. The company has also set up overseas warehouses and localized service bases in West Africa, providing efficient and reliable equipment and technical support for regional mining projects.

Adhering to the core values of Integrity, Professionalism, Innovation, and Service, Changkun continuously optimizes its exploration equipment based on complex geological conditions and real operational demands. The company is committed to delivering high-quality, high-reliability drilling rigs and complete drilling solutions for mineral exploration.

At present, Changkun has established long-term and stable partnerships with several well-known mining companies across West Africa, forming a systematic and turnkey supply capability for drilling equipment and services. Its products and services have been widely applied in Guinea, Mali, Gambia, Burkina Faso, Ghana, and Sierra Leone, earning strong recognition and trust from clients in real-world operations.









Product Introduction

AUTOMATIC ROD CHANGER REVERSE CIRCULATION DRILLING RIG

REVERSE CIRCULATION SERIES



CHK RC500AC

HIGH-EFFICIENCY AUTOMATIC RC DRILLING FOR EXPLORATION

CHK RC500AC is a medium-deep hole Reverse Circulation (RC) drill rig **designed for gold and other metal ore exploration**, with a maximum drilling depth of 300 meters. Equipped with an automatic rod handling system and featuring high-quality sampling capability, CHK RC500AC can provide reliable and stable technical support for ore exploration projects.



- **AUTOMATIC ROD CHANGING RC DRILLING RIG , EFFICIENT EXPLORATION**

This drill rig is fitted with an **automatic rod handling system**, which effectively reduces manual operations, enhances safety and significantly raises continuous drilling efficiency.

- **COMPACT STRUCTURE DESIGN, ADAPTED TO HARSH WORKING CONDITIONS IN AFRICA**

With a **compact structural design** and stable and reliable performance, the rig is suitable for sampling operations in overburden layers, weathered zones, and medium-hard rock formations. It is **specially engineered for high-temperature, dusty tropical regions such as Africa.**

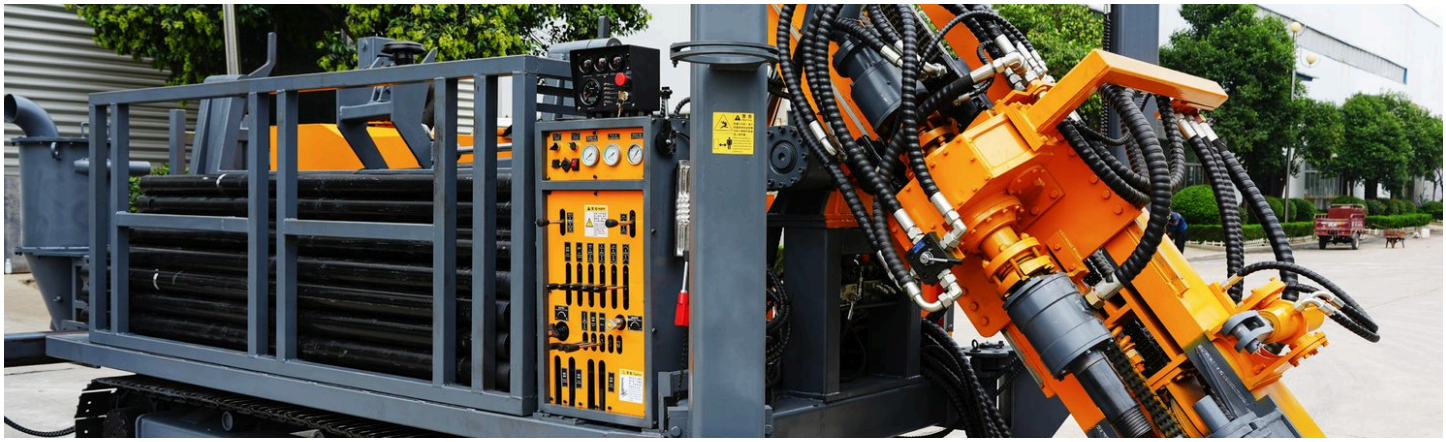
- **RELIABLE CORE COMPONENTS, HIGH-EFFICIENCY SLAG DISCHARGE SYSTEM**

  Core components including slurry pumps, hydraulic motors, and hydraulic valves are **adopted from well-known brands**, ensuring stable operation. The slag discharge pipe of the power head is made of **thickened special alloy steel**, which extends service life; with a diameter of 102 mm, it effectively reduces the risk of slag blockage.

- **CUMMINS POWER, EASIER MAINTENANCE**

  The equipment is equipped with a **153 kW Cummins diesel engine**, featuring convenient overseas spare parts supply and efficient maintenance.





Category	Item	Unit	CHK RC500AC
Drilling Capacity	Max. Hole Depth	m	300
	Hole Diameter	mm	110-160
	Drill Pipe Diameter	mm	89/102/114
	Drill Pipe Length	m	3.0
	Drilling Rate	m/h	12-40
Drive Head	Max Torque	N·m	12000
	Rotary Speed	rpm	40-160
	Single Stroke Length	m	4.7
	Rig Lifting Force	kN	300
	Feed Force	kN	150
Power Unit	Engine Model	-	Cummins
	Rated Power	kW	132
Tool Winch Capacity	Winch Lifting Force	kN	20
Air Pressure		MPa	1.7-3.5
Air Consumption		m^3/min	17-42
RC Hammer Configuration			Medium & High Air Pressure Series
Crawler Chassis	Walking Speed	km/h	2-3
	Climbing Angle	Max.	25
Dimension	Transport (L*W*H)	mm	6300*2100*2500
	Working (L*W*H)	mm	4500*3000*6800
Weight		kg	11000

*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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Tang tian