CHANGKUN GEO

CHANGKUN GEO

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



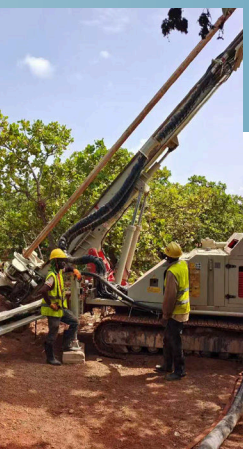
ABOUT CHANGKUN GEO

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.

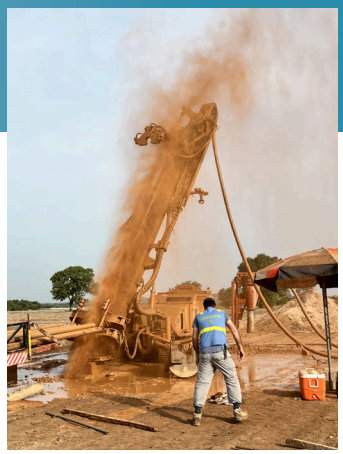
Driven by continuous field exploration practices, Changkun has established an integrated business system covering exploration technical services, drilling rig R&D and manufacturing, drilling tools supply, and supply chain integration. The company has also set up overseas warehouses and localized service 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

CORE DRILLING RIG

CORE SERIES

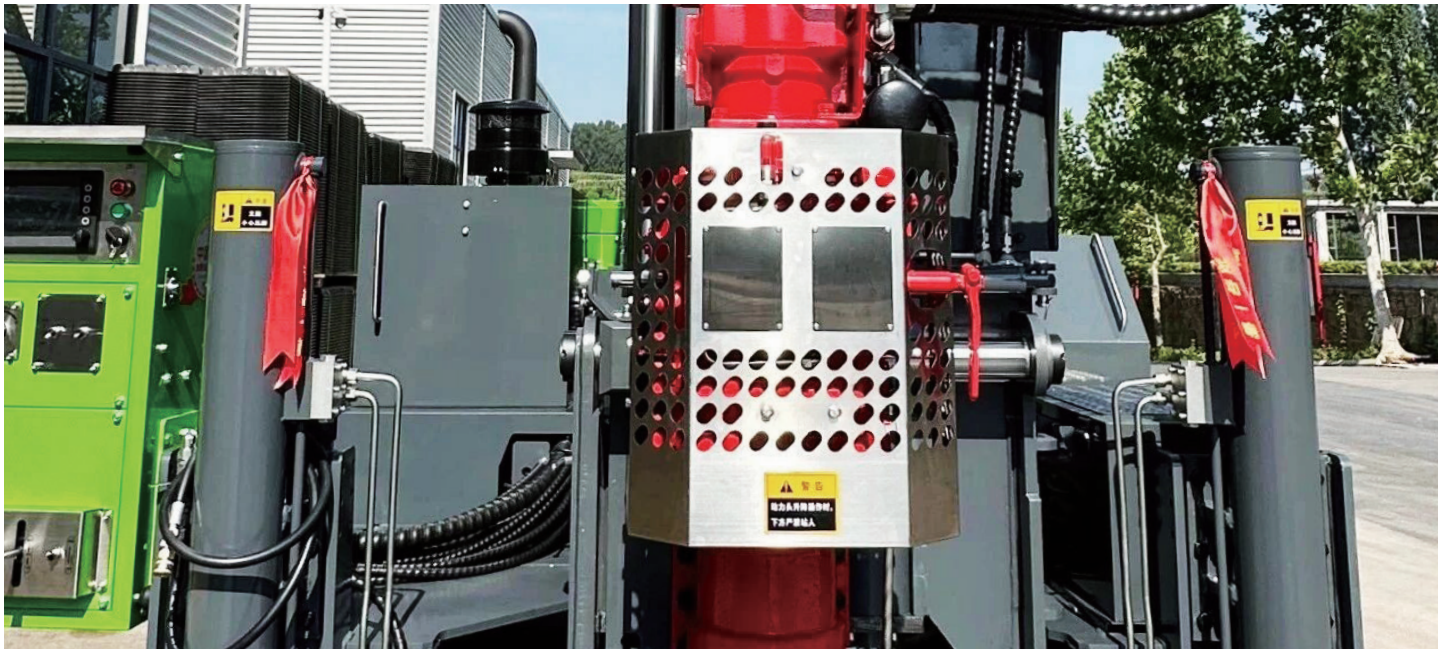


KF-ED960C+

DESIGNED FOR DEEP-HOLE CORE EXPLORATION

The KF-ED960C+ is a full-hydraulic intelligent core drilling rig designed for gold and polymetallic mineral exploration. Featuring high torque output, fast feeding performance, and advanced safety systems, it is equipped with a 6-speed high-torque gearbox delivering up to 7,200 N · m, ensuring stable and efficient deep-hole core drilling under complex geological conditions.

EIGHT KEY ADVANTAGES OF PRODUCT UPGRADE & INNOVATION



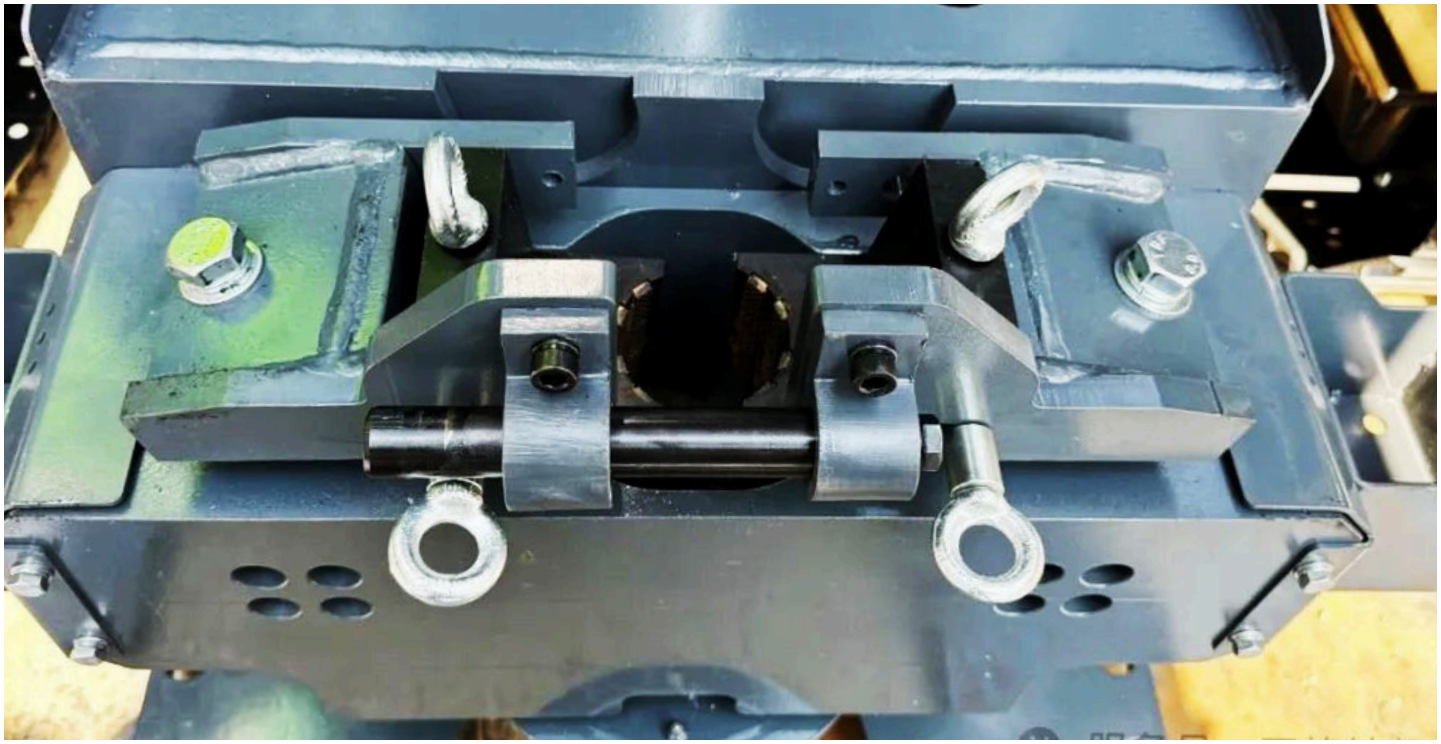
1.CUMMINS POWER, EASIER MAINTENANCE

The power head is equipped with imported Kawasaki plunger hydraulic pumps and power head motors, offering high reliability and durability to handle various complex rock formations. Paired with a 6-speed heavy-duty gearbox, it delivers a maximum torque of 7,200 Nm, easily supporting deep-hole exploration up to 1,800 meters.



2.FAMILY-STYLE FIVE-LINK FEED FRAME

The family-style five-link sliding frame ensures high spindle concentricity. A proprietary hydraulic oil cooling and lubrication system integrated into the guide bushing further enhances rod lifting efficiency, achieving rod lifting speeds of over 500 meters per hour.



3. FULLY UPGRADED GRAVITY CLAMPING SYSTEM

The newly upgraded synchronized gravity chuck system features extended high-strength alloy components and a wrap-around clamping jaw design, securely locking the drill rods. This effectively eliminates rod-dropping risks, ensuring safer and more reliable deep-hole drilling.



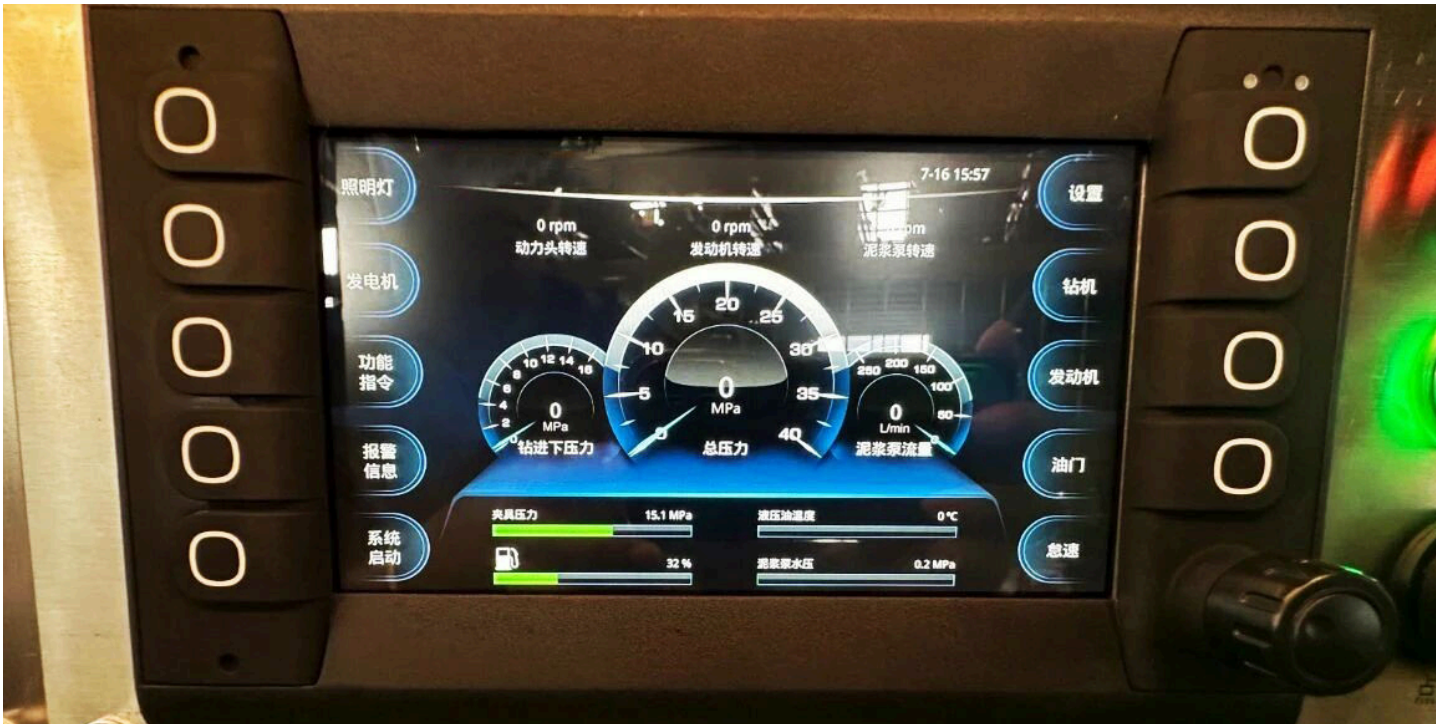
4. VARIABLE-FREQUENCY BRUSHLESS MAINTENANCE-FREE GENERATOR

The entire series is standardly equipped with a 12 kW variable-frequency brushless maintenance-free generator (output voltage 220V/380V). No additional generator is required, providing a continuous and stable power supply for drilling operations.



5. INTELLIGENT FUEL REFUELING SYSTEM

Equipped with a one-button intelligent fuel refueling system, allowing safe refueling without shutting down the rig during drilling, further improving operational efficiency while saving time and labor.



6. REAL-TIME INTELLIGENT MONITORING

A large interconnected intelligent display provides real-time monitoring of all drilling parameters, with active alarm and automatic shutdown functions to prevent improper operation and ensure precise and safe drilling.



7. ONE-BUTTON HYDRAULIC SIDE SHIFT OF POWER HEAD

The power head supports one-button hydraulic side shifting, enabling coordinated compound movements for fast and safe core extraction, significantly reducing labor costs and operational safety risks.



8. STEEL CRAWLER TRACKS WITH PRECISION WIRELESS REMOTE CONTROL

Heavy-duty steel crawler tracks, identical to those used on excavators, provide strong off-road capability and exceptional durability. Combined with analog-type wireless remote control for traveling, the rig offers precise and smooth control, safer operation in mountainous terrain, and features a remote one-button emergency stop to safeguard operational safety.

Category	Item	KF-ED960C+
Drilling Capacity	Drilling Depth	BTW/BQ:2000 m;NTW/NQ:1800 m;HTW/HQ:1200 m;PQ:800 m
	Max. Drill Pipe Specification	150 mm
Power Unit	Engine Model	Weichai
	Engine Power	154 kW @ 2200 rpm
	Displacement	4.6 L
	Number of Cylinders	4 in-line cylinders
	Cooling Method	Water-cooled
Feeding System	Feeding Stroke	3.5 m / 2.5 m
	Feeding Force	62 kN
	Lifting Force	240 kN
	Drilling Angle	40° – 90°
	Drill Pipe Length	1.5 m / 2 m / 3 m
Rotary Power Head	Driving Form	Hydraulic Piston Motor
	Maximum Torque	7200 N·m
	Gearbox	Six-speed gearbox
	Spindle Speed	0 – 1100 rpm
	Gear Speed Range	70–130 / 120–220 / 200–360 / 320–580 / 480–860 / 680–1100 rpm
Rope Winch	Driving Method	Hydraulic Drive
	Rope Capacity	1800 m (Ø 6.8 mm)
	Lifting Force	15 kN
	Lifting Speed	130 m/min (empty drum)
Drill Pipe Clamp	Through Hole Diameter	127 mm
	Clamping Force	105 kN
Hydraulic System	Main Pump Pressure	30 MPa
	Auxiliary Pump Pressure	25 MPa
	Pilot Pump Pressure	3.5 MPa
	Hydraulic Oil Cooling	Air-cooled
Mud Unit	Mud Pump	Three-cylinder plunger high-pressure pump
	Driving Form	Hydraulic Drive
	Flow / Pressure	250 L/min · 10 MPa
Electric Unit	Generator Type	Variable Frequency Brushless Maintenance-Free
	Power / Voltage	12 kW · 220 V / 380 V
Traveling Crawler	Driving Form	Hydraulic Drive
	Crawler Type	Steel crawler tracks
	Control Form	Wireless remote control (digital-analog hybrid)
	Travel Speed	3.2 – 5.5 km/h
Dimensions and Weight (for Transportation)	Transport Size (L×W×H)	5100 × 2100 × 2950 mm
	Total Machine Weight	10600 kg

*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.

CHANGKUN GEO

CHANGKUN GEOLOGICAL EXPLORATION CO., LTD

Web: www.changkungeo.com

E-mail:

SERVICE@CHANGKUNGEO.COM

Whatsapp: +86 159 7291 0743

Wechat: +86 18607176746

Tang tian