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



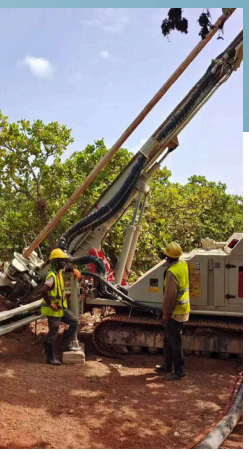
ABOUT CHANGKUN GEO

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.

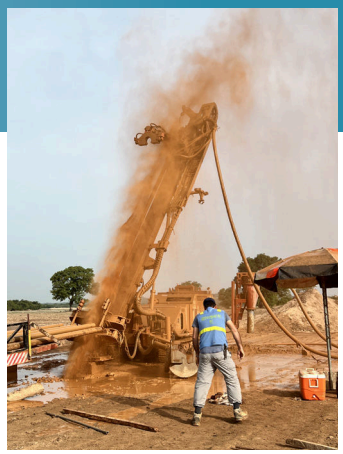
Driven by continuous field exploration practices, Changkun has established an integrated business system covering exploration technical services, drilling rig R&D and manufacturing, drilling tools supply, and supply chain integration. The company has also set up overseas warehouses and localized service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

REVERSE CIRCULATION HAMMER

REVERSE CIRCULATION SERIES



REVERSE CIRCULATION HAMMER

FAST DRILLING & CONTINUOUS SAMPLING

SIMPLE STRUCTURE & EASY MAINTENANCE

RELIABLE SAMPLING IN TOUGH CONDITIONS

Reverse circulation hammers

Model range

CHK RC543

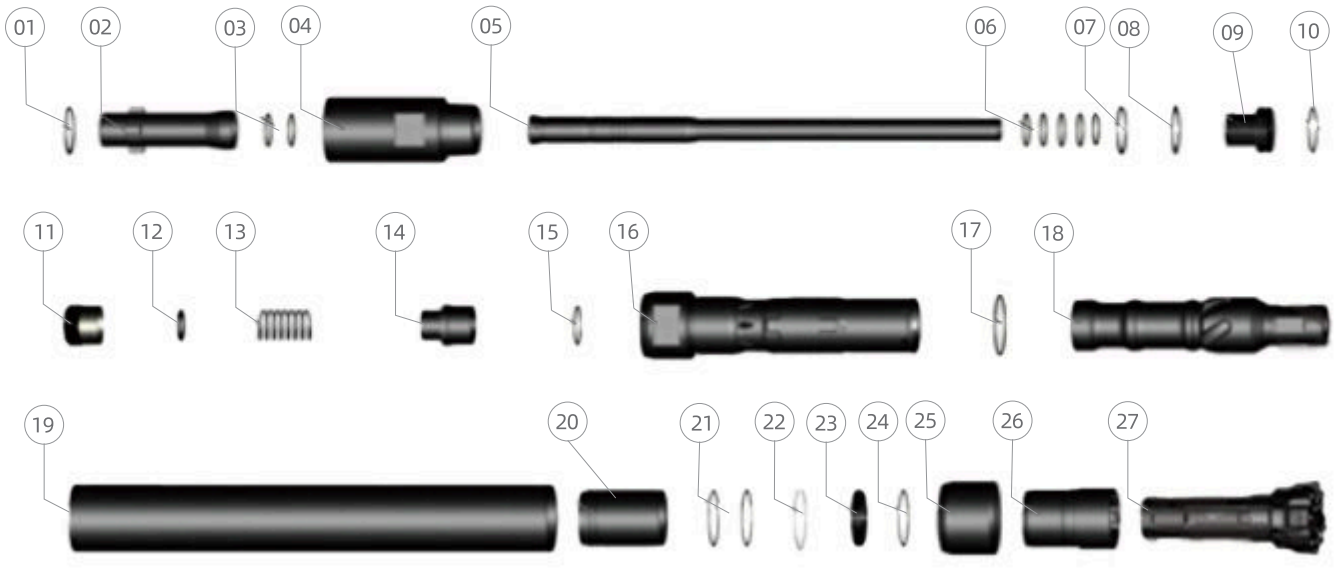
CHK RC052

CHK RC040

CHK PR54

The RC hammer range supports reverse circulation sampling and includes CHK RC543, RC052, RC040 and PR54. The image is representative; confirm the specific model with our team.

CHK RC543



Ref.	Parts	Weight (KG)	Part No.
1	Circlip of Top Sub	0.04	CHKRC543-01
2	Adaptor Screen	2.55	CHKRC543-02
3	O Ring of Adaptor Screen	0.02	CHKRC543-03
4	Top Sub	8.52	CHKRC543-04
5	Sample Tube	3.9	CHKRC543-05
6	O Ring of Sample Tube	0.02	CHKRC543-06
7	Circlip of Inner Cylinder	0.04	CHKRC543-07
8	Airscreen	0.02	CHKRC543-08
9	Distributor Nozzle	0.56	CHKRC543-09
10	O Ring of Distributor Nozzle	0.02	CHKRC543-10
11	Plunger	0.52	CHKRC543-11
12	Y Ring of Plunger	0.02	CHKRC543-12
13	Spring	0.08	CHKRC543-13
14	Mount Sample Tube	0.86	CHKRC543-14
15	O Ring of Mount Sample Tube	0.02	CHKRC543-15
16	Inner Cylinder	7.26	CHKRC543-16
17	O Ring of Inner Cylinder	0.02	CHKRC543-17

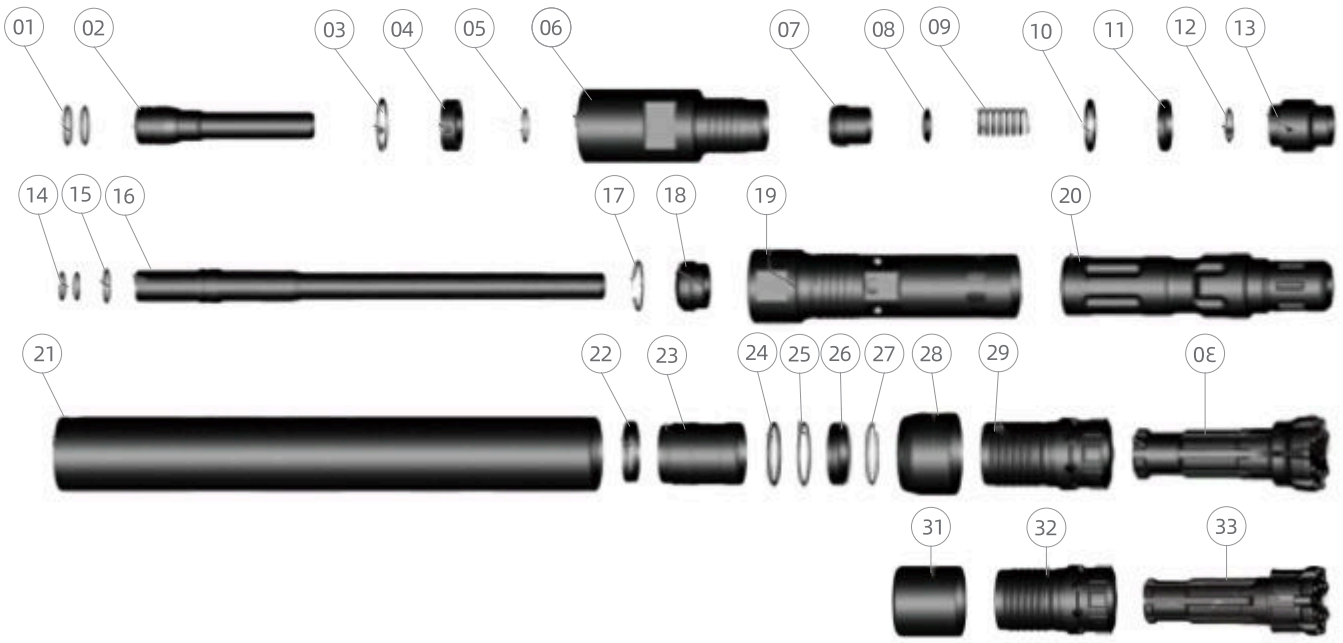
Ref.	Parts	Weight (KG)	Part No.
18	Piston	11.64	CHKRC543-18
19	Piston Case	19.17	CHKRC543-19
20	Bush Drive Sub	2.35	CHKRC543-20
21	O Ring of Bush Drive Sub	0.02	CHKRC543-21
22	Piston Retaining Ring	0.05	CHKRC543-22
23	Bit Retaining Ring	0.26	CHKRC543-23
24	O Ring of Bit Retaining Ring	0.02	CHKRC543-24
25	Shroud	2.21	CHKRC543-25
26	Drive Sub	2.94	CHKRC543-26
27	Drill Bit	-	CHKRC543-27

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
1191mm	63Kg	Φ116mm	4 1/2"Remet	CHK RC543	Φ120-Φ135mm

Work Pressure	Recommended rotation speed	Air Consumption		
1.5-3.5 Mpa	25~40 r/min	1.7Mpa	2.4Mpa	3.0Mpa
		12m³/min	18m³/min	26m³/min

CHK RC052



Ref.	Parts	Weight (KG)	Part No.
1	O Ring of Adaptor Screen	0.02	CHKRC052-01
2	Adaptor Screen	2.19	CHKRC052-02
3	Circlip of Top Sub	0.04	CHKRC052-03
4	Airscreen Top Load	0.42	CHKRC052-04
5	Circlip of Adaptor Screen	0.03	CHKRC052-05
6	Top Sub	8.92	CHKRC052-06
7	Plunger	0.63	CHKRC052-07
8	Y Ring of Plunger	0.03	CHKRC052-08
9	Spring	0.12	CHKRC052-09
10	Make up Ring Steel	0.1	CHKRC052-10
11	Compression Buffer	0.05	CHKRC052-11
12	O Ring of Air Distributor	0.02	CHKRC052-12
13	Air Distributor	1.31	CHKRC052-13
14	O Ring of Sample Tube	0.02	CHKRC052-14
15	O Ring of Sample Tube	0.02	CHKRC052-15
16	Sample Tube	4.52	CHKRC052-16
17	O Ring of Mount Sample Tube	0.02	CHKRC052-17

Ref.	Parts	Weight (KG)	Part No.
18	Mount Sample Tube	0.8	CHKRC052-18
19	Inner Cylinder	7.39	CHKRC052-19
20	Piston	14.6	CHKRC052-20
21	Piston Case	18.8	CHKRC052-21
22	Piston Retaining Ring	0.13	CHKRC052-22
23	Bush Drive Sub	1.89	CHKRC052-23
24	O Ring of Bush Drive Sub	0.02	CHKRC052-24
25	O Ring of Bush Drive Sub	0.02	CHKRC052-25
26	Bit Retaining Ring	0.31	CHKRC052-26
27	O Ring of Bit Retaining Ring	0.02	CHKRC052-27
28	Shroud	1.86	CHKRC052-28
29	Drive Sub	4.17	CHKRC052-29
30	Drill Bit	-	CHKRC052-30
31	Retention Shroud	1.86	CHKRC052-31
32	Retention Drive Sub	4.17	CHKRC052-32
33	Retention Drill Bit	-	CHKRC052-33

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
1227mm	68.5Kg	Φ121mm	4 1/2"Remet	CHK RC52	Φ126-Φ142mm

Work Pressure	Recommended rotation speed	Air Consumption		
1.5-3.5 Mpa	25～40 r/min	1.7Mpa	2.4Mpa	3.0Mpa
		16m³/min	22m³/min	28m³/min

CHK RC040



Ref.	Parts	Weight (KG)	Part No.
1	Top Sub	8.64	CHKRC040-01
2	O Ring	0.02	CHKRC040-02
3	O Ring	0.02	CHKRC040-03
4	Valve Rod	1.31	CHKRC040-04
5	O Ring	0.02	CHKRC040-05
6	Collecting Tube	3.54	CHKRC040-06
7	O Ring	0.02	CHKRC040-07
8	Spring	0.14	CHKRC040-08
9	Check Valve	0.42	CHKRC040-09
10	O Ring	0.02	CHKRC040-10
11	O Ring	0.02	CHKRC040-11
12	Adapter	1.21	CHKRC040-12
13	O Ring	0.02	CHKRC040-13
14	O Ring	0.02	CHKRC040-14
15	Rubber Buffer	0.04	CHKRC040-15
16	Piston	10.46	CHKRC040-16
17	Piston Case	16.25	CHKRC040-17

Ref.	Parts	Weight (KG)	Part No.
18	Guide Sleeve	1.15	CHKRC040-18
19	O Ring	0.02	CHKRC040-19
20	Retainer Ring	0.26	CHKRC040-20
21	O Ring	0.02	CHKRC040-21
22	Driver Chuck	2.84	CHKRC040-22
23	Shroud	1.74	CHKRC040-23
24	Drill Bit	-	CHKRC040-24

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
842mm	48.2Kg	Φ125mm	4 1/2"Remet	CHK RC40	Φ130-Φ146mm

Work Pressure	Recommended rotation speed	Air Consumption	
1.5-3.0 Mpa	30~60 r/min	1.8Mpa	2.4Mpa
		16m³/min	22m³/min

CHK PR54



Ref.	Parts	Weight(KG)	Part No.
1	TopSub	11.2	CHKPR54-01
2	O Ring of Adaptor Tube x 2	0.02	CHKPR54-02
3	Adaptor Tube	2.3	CHKPR54-03
4	Adaptor Tube	0.35	CHKPR54-04
5	O-Ring Airscreen bottom load x2	0.02	CHKPR54-05
6	Circlip of Adaptor Tube	0.03	CHKPR54-06
7	Plunger	0.45	CHKPR54-07
8	Y Ring of Plunger x1	0.02	CHKPR54-08
9	Spring	0.12	CHKPR54-09
10	Make Up Ring, Steel	0.02	CHKPR54-10
11	Make Up Ring, Viton	0.14	CHKPR54-11
12	Distributor	0.06	CHKPR54-12
13	O Ring of Distributor	0.02	CHKPR5413
14	O Ring of Sample Tube x2	0.02	CHKPR54-14
15	O Ring of Sample Tube	0.02	CHKPR54-15
16	Sample Tube	6.47	CHKPR54-16
17	O Ring of Mount Sample Tube	0.02	CHKPR54-17

Ref.	Parts	Weight(KG)	Part No.
18	Mount Sample Tube	1	CHKPR54-18
19	Inner Cylinder	8	CHKPR54-19
20	Piston	16.7	CHKPR54-20
21	Piston Case	22.9	CHK-PR54-21
22	Bush Drive Sub Retaining Ring	0.15	CHK-PR54-22
23	Bush Drive Sub	2.5	CHK-PR54-23
24	O Ring of Bush Drive Sub	0.02	CHK-PR54-24
25	O Ring of Bush Drive Sub x 2	0.02	CHK-PR54-25
26	Bit Retaining Ring	0.45	CHK-PR54-26
27	O Ring of Bit Retaining Ring	0.02	CHK-PR54-27
28	Shroud	2.35	CHK-PR54-28
29	Drive Sub	5.05	CHK-PR54-29
30	Drill Bit	20	CHK-PR54-30

Contact Changkun to confirm PR54 specifications and the required parts list.

CHANGKUN GEO

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Tang tian