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



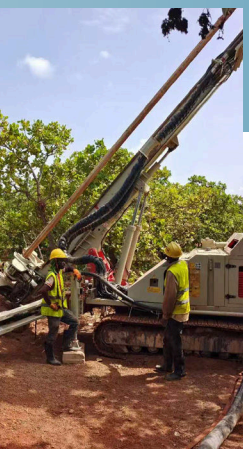
ABOUT CHANGKUN GEO

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.

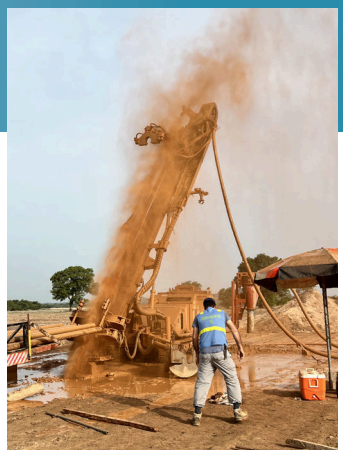
Driven by continuous field exploration practices, Changkun has established an integrated business system covering exploration technical services, drilling rig R&D and manufacturing, drilling tools supply, and supply chain integration. The company has also set up overseas warehouses and localized service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







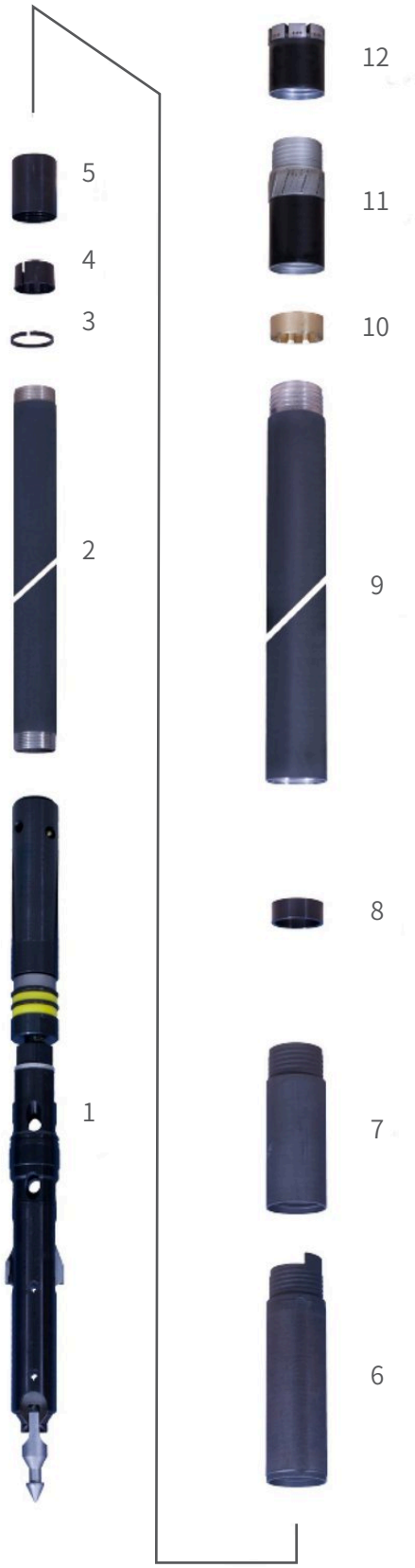


INNER AND OUTER TUBE SYSTEM

CORE SERIES



INNER AND OUTER TUBE SYSTEM



OVERVIEW OF DOUBLE TUBE CORE BARREL

Double tube core barrels are available in NQ, HQ, and PQ sizes, which are internationally standardized and widely used worldwide.

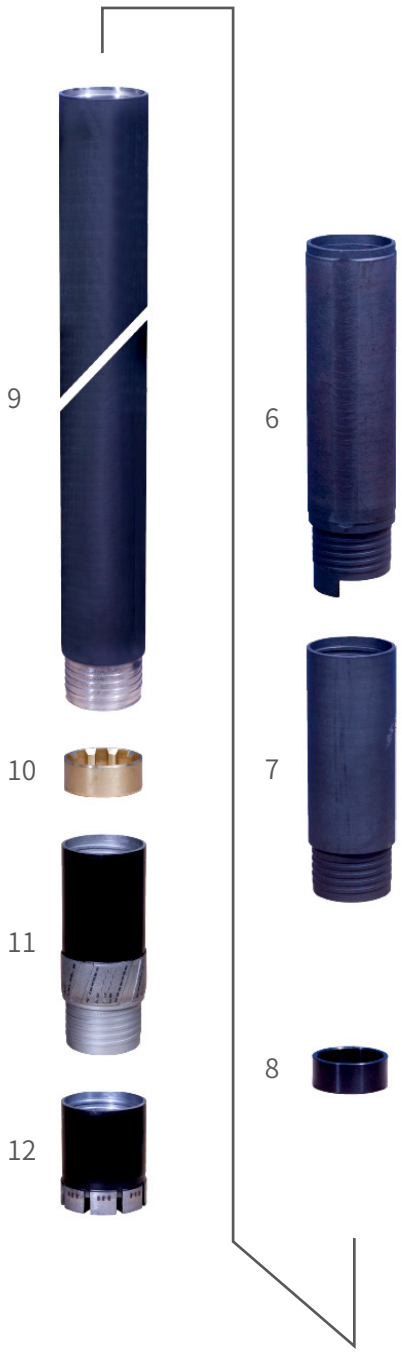
A double tube core barrel consists of two main assemblies: the outer tube assembly and the inner tube assembly.

The following diagram illustrates the structure of a double tube core barrel. Items 1 to 5 represent the inner tube assembly, while items 6 to 12 represent the outer tube assembly, applicable to NQ, HQ, and PQ sizes.

DOUBLE TUBE CORE BARREL

Seq.	Item	Part Number	Unit	Weight (kg)
		NQ		
1–12	Core Barrel 3.0 m	CHK-NQ-3000	set	60.44
1–12	Core Barrel 1.5 m	CHK-NQ-1500	set	38.94
		HQ		
1–12	Core Barrel 3.0 m	CHK-NQ-3000	set	94.34
1–12	Core Barrel 1.5 m	CHK-NQ-1500	set	63.98
		PQ		
1–12	Core Barrel 3.0 m	CHK-NQ-3000	set	126.65
1–12	Core Barrel 1.5 m	CHK-NQ-1500	set	83.34

WIRELINE CORING DOUBLE TUBE DRILL STRING OUTER TUBE SYSTEM

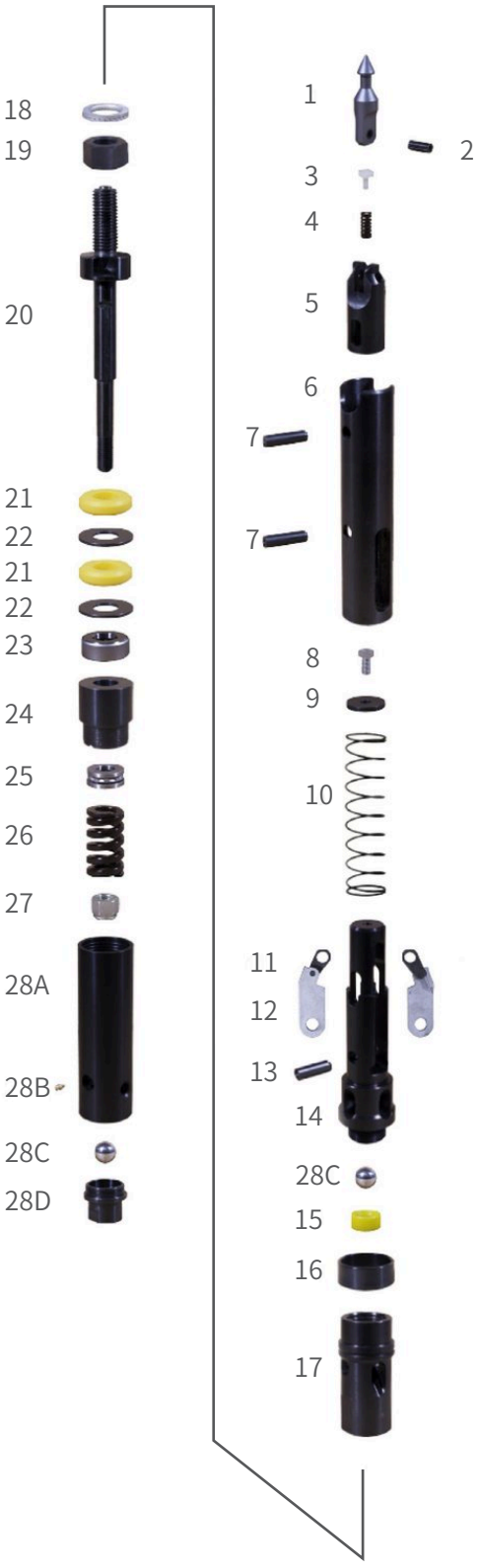


Wireline Coring Double Tube Drill String Outer Tube System consists of 7 components: centralizer, split set chamber, seat ring, outer tube, centralizing ring, reamer, and drill bit.

The outer tube is available in two specifications: 3 meters and 1.5 meters.

NQ HEAD ASSEMBLY

PARTS LIST AND PART NUMBERS



NO.	Name	Part Number	Unit	Weight (Kg)
1/28	Head Assembly	CHK-N-000	Set	9.60
1	Spearhead	CHK-NHP-001	Pcs	0.23
2	Rolling Pin	CHK-NHP-002	Pcs	0.01
3	Detent Pin	CHK-NHP-003	Pcs	0.01
4	Detent Spring	CHK-NHP-004	Pcs	0.01
5	Spearhead	CHK-N-005	Pcs	0.44
6	Latch Retracting	CHK-N-006	Pcs	1.09
7	Spring Pin (2 pcs)	CHK-N-007	Group	0.03
8	Screw Bolt	CHK-NHP-008	Pcs	0.01
9	Washer	CHK-N-009	Pcs	0.04
10	Compression Spring	CHK-N-010	Pcs	0.03
11	Link (2 pcs)	CHK-N-011	Group	0.05
12	Latch (2 pcs)	CHK-N-012	Group	0.27
13	Spring Pin	CHK-N-013	Pcs	0.01
14	Upper Latch Body	CHK-N-014	Pcs	1.25
15	Seal Valve	CHK-NH-015	Pcs	0.01
16	Landing Shoulder	CHK-N-016	Pcs	0.10
17	Lower Latch Body	CHK-N-017	Pcs	1.13
18	Double Stack Self-Locking Washer	CHK-N-018	Pcs	0.03
19	Stover Lock Nut	CHK-N-019	Pcs	0.17
20	Spindle	CHK-N-020	Pcs	1.40
21	Shut-off Valve (2 pcs)	CHK-N-021	Group	0.05
22	Adjusting Washer (2 pcs)	CHK-N-022	Group	0.08
23	Bearing 51305	CHK-N-023	Pcs	0.16
24	Spindle Bearing	CHK-N-024	Pcs	0.80
25	Bearing 51204	CHK-N-025	Pcs	0.08
26	Compression Spring	CHK-N-026	Pcs	0.23
27	Lock Nut	CHK-N-027	Pcs	0.04
28	Inner Tube Cap Assembly	CHK-N-028	Set	1.54
28A	Inner Tube Cap	CHK-N-028A	Pcs	1.28
28B	Grease Fitting	CHK-NHP-B	Pcs	0.01
28C	Ball(2 pcs)	CHK-NHP-C	Group	0.08
28D	Check Valve Body	CHK-NH-D	Pcs	0.17

HQ HEAD ASSEMBLY

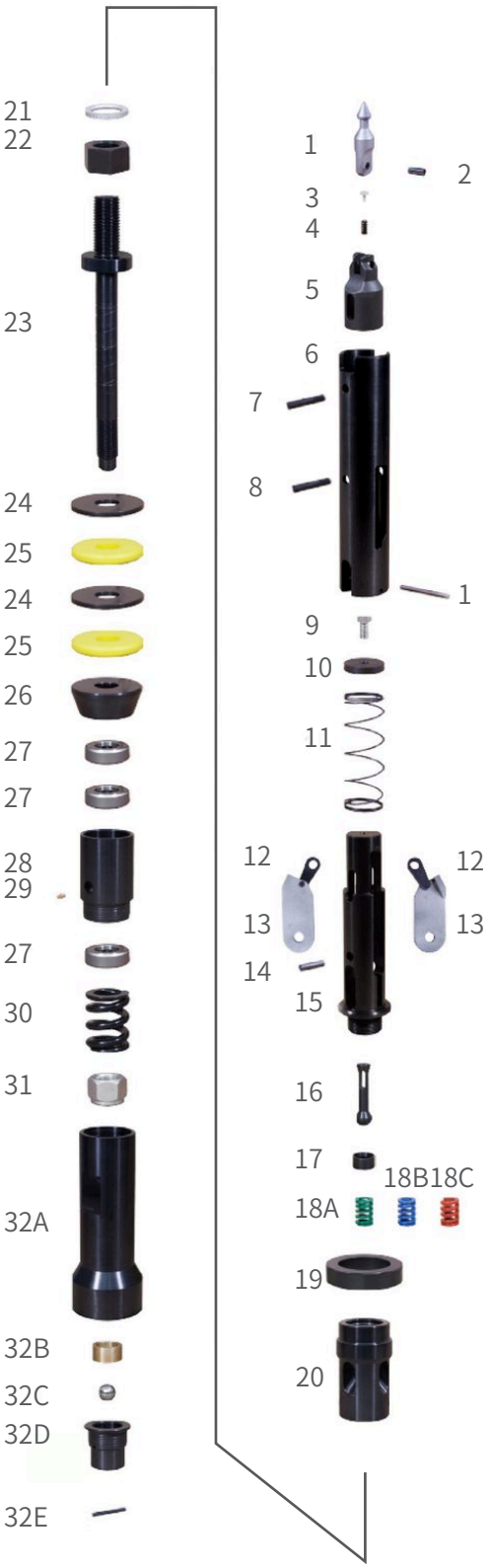
PARTS LIST AND PART NUMBERS



NO.	Name	Part Number	Unit	Weight (Kg)
1/29	Head Assembly	CHK-H-000	Set	19.70
1	Spearhead	CHK-NHP-001	Pcs	0.23
2	Rolling Pin	CHK-NHP-002	Pcs	0.01
3	Detent Pin	CHK-NHP-003	Pcs	0.01
4	Detent Spring	CHK-NHP-004	Pcs	0.01
5	Spearhead	CHK-HP-005	Pcs	0.82
6	Latch Retracting	CHK-HP-006	Pcs	2.90
7	Spring Pin (2 pcs)	CHK-H-007	Group	0.07
8	Screw Bolt	CHK-NHP-008	Pcs	0.01
9	Washer	CHK-HP-009	Pcs	0.17
10	Compression Spring	CHK-HP-010	Pcs	0.04
11	Link (2 pcs)	CHK-HP-011	Group	0.12
12	Latch (2 pcs)	CHK-H-012	Group	0.64
13	Spring Pin	CHK-N-007	Pcs	0.02
14	Upper Latch Body	CHK-HP-014	Pcs	2.44
15	Seal Valve	CHK-NH-015	Pcs	0.01
16	Landing Shoulder	CHK-H-016	Pcs	0.17
17	Lower Latch Body	CHK-H-017	Pcs	2.22
18	Double Stack Self-Locking Washer	CHK-H-018	Pcs	0.03
19	Stover Lock Nut	CHK-H-019	Pcs	0.25
20	Spindle	CHK-H-020	Pcs	2.76
21	Shut-off Valve (2 pcs)	CHK-H-021	Group	0.10
22	Adjusting Washer (2 pcs)	CHK-H-022	Group	0.26
23	Bearing 51306	CHK-H-023	Pcs	0.43
24	Thrust Ring	CHK-H-024	Pcs	0.22
25	Spindle Bushing	CHK-H-025	Pcs	1.54
26	Bearing 51305	CHK-N-023	Pcs	0.16
27	Compression Spring	CHK-H-027	Pcs	0.41
28	Lock Nut	CHK-H-028	Pcs	0.11
29	Inner Tube Cap Assembly	CHK-H-029	Set	3.12
29A	Inner Tube Cap	CHK-H-029A	Pcs	2.86
29B	Grease Fitting	CHK-NHP-B	Pcs	0.01
29C	Ball(2 pcs)	CHK-NHP-C	Group	0.08
29D	Check Valve Body	CHK-NH-D	Pcs	0.17

PQ HEAD ASSEMBLY

PARTS LIST AND PART NUMBERS



NO.	Name	Part Number	Unit	Weight (Kg)
1/32	Head Assembly	CHK-P-000	Set	21.75
1	Spearhead	CHK-NHP-001	Pcs	0.23
2	Rolling Pin	CHK-NHP-002	Pcs	0.01
3	Detent Pin	CHK-NHP-003	Pcs	0.01
4	Detent Spring	CHK-NHP-004	Pcs	0.01
5	Spearhead	CHK-HP-005	Pcs	0.82
6	Latch Retracting	CHK-HP-006	Pcs	2.90
7	Spring Pin (2 pcs)	CHK-H-007	Group	0.07
8	Spring Pin	CHK-P-008	Pcs	0.01
9	Screw Bolt	CHK-NHP-008	Pcs	0.01
10	Washer	CHK-HP-009	Pcs	0.17
11	Compression Spring	CHK-HP-010	Pcs	0.04
12	Link (2pcs)	CHK-HP-011	Group	0.12
13	Latch (2 pcs)	CHK-P-013	Group	0.73
14	Spring Pin	CHK-N-007	Pcs	0.02
15	Upper Latch Body	CHK-HP-014	Pcs	2.44
16	Ball Valve	CHK-P-016	Pcs	0.10
17	Ball Valve Sleeve	CHK-P-017	Pcs	0.03
18A	Light Pressure Spring	CHK-P-018A	Pcs	0.04
18B	Medium Pressure Spring	CHK-P-018B	Pcs	0.04
18C	Heavy Pressure Spring	CHK-P-018C	Pcs	0.04
19	Landing Shoulder	CHK-P-019	Pcs	0.73
20	Lower Latch Body	CHK-P-020	Pcs	2.14
21	Double Stack Self-Locking Washer	CHK-P-021	Pcs	0.05
22	Stover Lock Nut	CHK-P-022	Pcs	0.41
23	Spindle	CHK-P-023	Pcs	2.22
24	Adjusting Washer (2 pcs)	CHK-P-024	Group	0.61
25	Shut-off Valve (2 pcs)	CHK-P-025	Group	0.20
26	Thrust Ring	CHK-P-026	Pcs	0.68
27	Bearing 51306	CHK-H-023	Pcs	0.64
28	Spindle Bushing	CHK-P-028	Pcs	1.81
29	Grease Fitting	CHK-NHP-B	Pcs	0.01
30	Compression Spring	CHK-P-030	Pcs	0.43
31	Lock Nut	CHK-P-031	Pcs	0.24
32	Inner Tube Cap Assembly	CHK-P-032	Set	3.41
32A	Inner Tube Cap	CHK-P-032A	Pcs	2.89
32B	Copper Sleeve	CHK-P-032B	Pcs	0.09
32C	Ball	CHK-NHP-C	Pcs	0.04
32D	Check Valve Body	CHK-P-032D	Pcs	0.38
32E	Spring Pin	CHK-P-032E	Pcs	0.01

CHANGKUN GEO

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Web: www.changkungeo.com

E-mail:

SERVICE@CHANGKUNGEO.COM

Whatsapp: +86 159 7291 0743

Wechat: +86 18607176746

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