CHANGKUN GEO

CHANGKUN GEO

DRILLING EQUIPMENT SERIES

Exploration Drilling Rigs
Drilling Tools



CHANGKUN GEO

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Tang tian



CHANGKUN GEO

DRILLING EQUIPMENT SERIES

CHANGKUN GEOLOGICAL EXPLORATION

EMPOWERING

THE WEST AFRICAN MINING INDUSTRY

CONTENTS

ABOUT CHANGKUN GEO 01

REVERSE CIRCULATION SERIES 03

Automatic Rod Changer Reverse Circulation Drilling Rig 03

CHK RC500AC 03

Reverse Circulation Drill Rod 07

Reverse Circulation Hammer 09

CHK RC543 11

CHK RC547 12

CHK RC052 13

CHK RC040 14

CHK RC52R 15

CHK RC54R 16

Reverse Circulation Drill Bit 17

CORE SERIES 19

Core Drilling Rig 19

KF-ED960C^{+} 19

Inner and Outer Tube System 25

NQ HEAD ASSEMBLY 28

HQ HEAD ASSEMBLY 29

PQ HEAD ASSEMBLY 30

Core Diamond Bit & Reaming Shell & Drill Rod 31

Drilling Tools & Accessories 35

POLYACRYLAMIDE 35



Company Profile

CHANGKUN GEO

CHANGKUN GEOLOGICAL EXPLORATION CO., LTD.

ABOUT CHANGKUN GEO

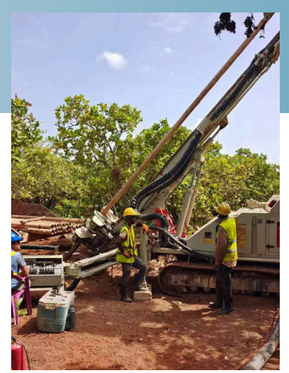
Changkun Geological Exploration Co., Ltd. was jointly founded by a team of senior geological exploration engineers and senior construction engineers. With long-term engagement in the West African mining market, the company focuses on geological exploration and mining services for gold, bauxite, and other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

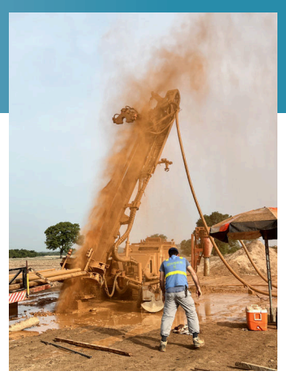
Driven by continuous field exploration practices, Changkun has established an integrated business system covering exploration technical services, drilling rig R&D and manufacturing, drilling tools supply, and supply chain integration. The company has also set up overseas warehouses and localized service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

CHANGKUN GEOLOGICAL EXPLORATION
EMPOWERING
THE WEST AFRICAN MINING INDUSTRY




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.**

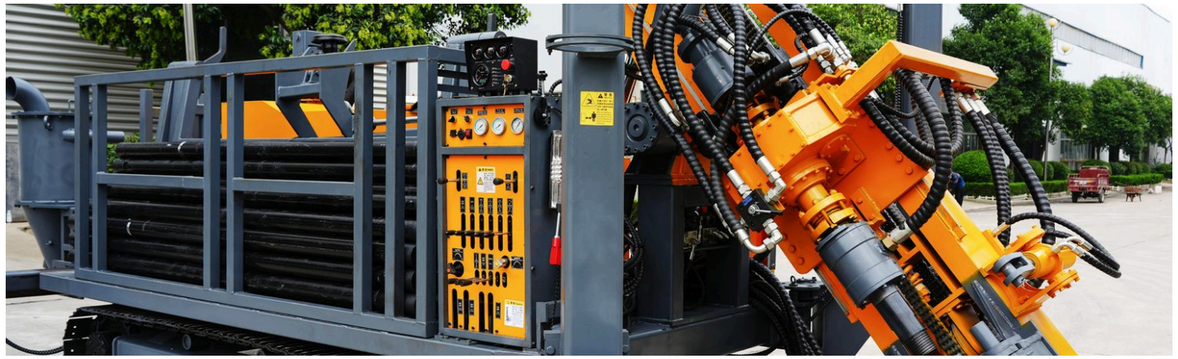
• RELIABLE CORE COMPONENTS, HIGH-EFFICIENCY SLAG DISCHARGE SYSTEM

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.

Product Introduction

REVERSE CIRCULATION DRILL ROD

REVERSE CIRCULATION SERIES



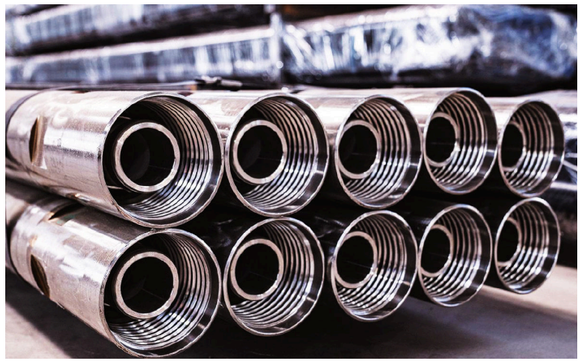
REVERSE CIRCULATION DRILL ROD

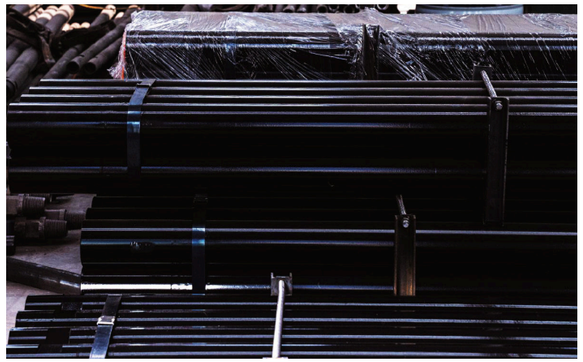
DUAL-CHANNEL REVERSE CIRCULATION DESIGN

HIGH DRILLING EFFICIENCY

HIGH SAMPLE INTEGRITY

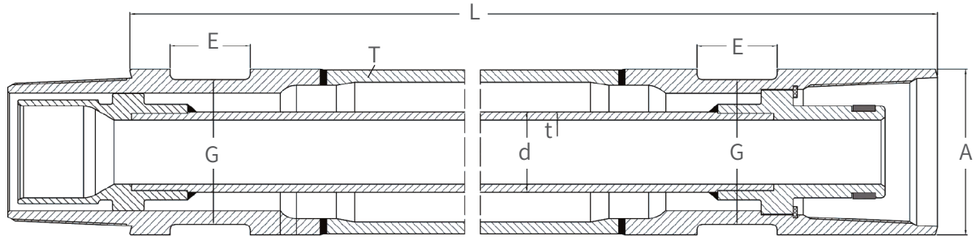
REVERSE CIRCULATION DRILL ROD





The Reverse Circulation (RC) Drill Rod features an innovative dual-channel structural design, enabling simultaneous operation of central tube cuttings/fluid discharge and annular air supply. This design effectively eliminates common problems associated with conventional direct circulation drill rods, such as sample contamination, bit balling, and circulation loss during drilling.

The RC drill rod is widely used in applications with strict requirements for cuttings quality, including mineral exploration (gold and copper), geothermal drilling, and coalbed methane wells. Compared with traditional drilling methods, it can increase drilling efficiency by approximately 40%, while achieving a sample recovery and integrity rate of over 95%.



Outer Diameter A (mm)	Connector		Inner Tube Size		Bayonet Dimensions		Effective Length L (mm)	Rod Wall Thickness T (mm)
	Pin Thread	Box Thread	Inner Tube ID d (mm)	Inner Tube Thickness t (mm)	E (mm)	G (mm)		
Φ89	3 1/2"Remet	3 1/2"Remet	Φ50	5	50	80	1500-6000	6.3/7.5/10
Φ102	4"Remet 4"Metzke	4"Remet 4 Metzke	Φ50	5	50	90	1500-6000	6.5/7.5/8.5 9/10
Φ114	4 1/2"Remet 4 1/2"Metzke DR115	4 1/2"Remet 4 1/2"Metzke DR115	Φ60	5	50	102	1500-6000	8/8.5/9
Φ127	4 1/2"Remet	4 1/2"Remet	Φ60	5	50	118	1500-6000	9

Product Introduction

REVERSE CIRCULATION HAMMER

REVERSE CIRCULATION SERIES



REVERSE CIRCULATION HAMMER

FAST DRILLING & CONTINUOUS SAMPLING

SIMPLE STRUCTURE & EASY MAINTENANCE

RELIABLE SAMPLING IN TOUGH CONDITIONS



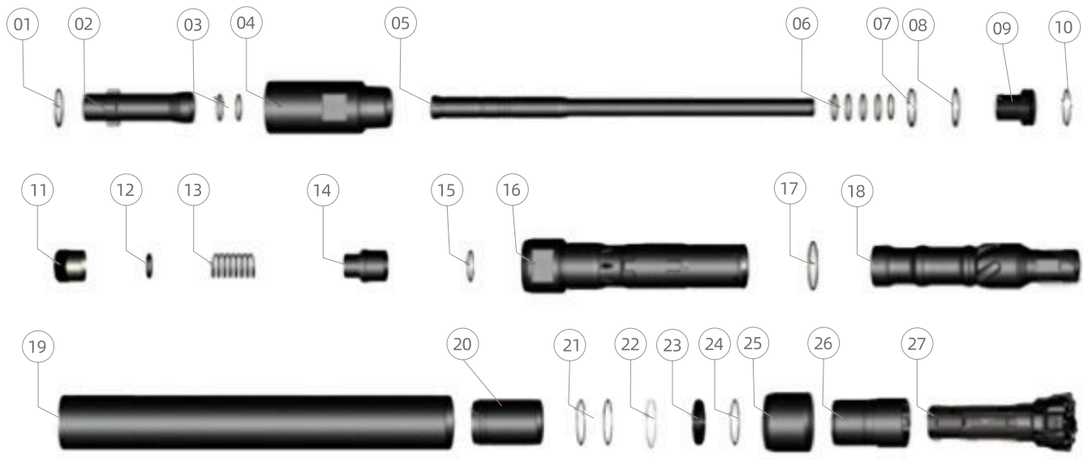
ADVANTAGES OF REVERSE CIRCULATION HAMMER

- Based on previous experience of conventional hammer, combined with feature of reverse circulation hammer, optimized internal structure and ideal energy transfer, to ensure the RC hammers achieves fast drilling rate stable and continuous sampling.
- The internal structure is very simple with components of high rigidity, thus ensured hammer life and convenience of maintenance.
- The sample tube uses an integrative design and can be replaced without disassembling the hammer. With carburizing treatment, it has good abrasive resistance.
- Bits designed with patent. Simply by replacing the drill bit, the hammer can drill holes different from sizes and ensure that the sample is not contaminated.
- In tough conditions such as loose soil, hard rock and plenty of water exist, sampling can be done well.

REVERSE CIRCULATION HAMMER

Model	Outer diameter	Hole Range	Connection Thread
CHK RC543	Φ116mm	Φ120 – Φ135mm	4 1/2"Remet
CHK RC547	Φ124.5mm	Φ130 – Φ146mm	4 1/2"Remet
CHK RC052	Φ121mm	Φ126 – Φ142mm	4 1/2"Remet
CHK RC040	Φ125mm	Φ130 – Φ146mm	4 1/2"Remet
CHK RC52R	Φ126 mm	Φ130 – Φ146 mm	4 1/2" Remet
CHK RC54R	Φ130 mm	Φ135 – Φ150 mm	4 1/2" Remet

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

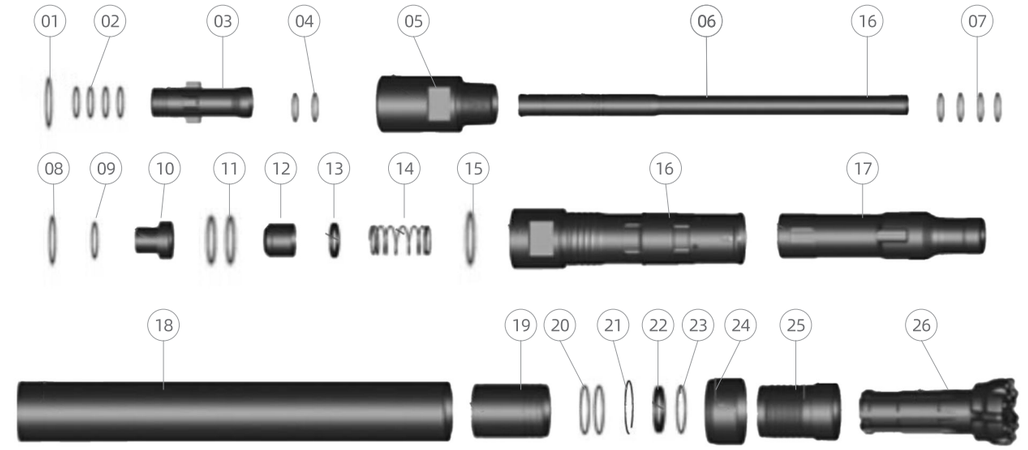
Ref.	Parts	Weight (KG)	Part No.
18	Piston	11.64	CHKRC543-18
19	Piston Case	19.17	CHKRC543-19
20	Bush Drive Sub	2.35	CHKRC543-20
21	O Ring of Bush Drive Sub	0.02	CHKRC543-21
22	Piston Retaining Ring	0.05	CHKRC543-22
23	Bit Retaining Ring	0.26	CHKRC543-23
24	O Ring of Bit Retaining Ring	0.02	CHKRC543-24
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 RC547



Ref.	Parts	Weight (KG)	Part No.
1	Circlip of Top Sub	0.03	CHKRC547-01
2	O Ring of Adaptor Screen	0.02	CHKRC547-02
3	Adaptor Screen	3	CHKRC547-03
4	O Ring of Adaptor Screen	0.02	CHKRC547-04
5	Top Sub	8.4	CHKRC547-05
6	Sample Tube	4.61	CHKRC547-06
7	O Ring of Sample Tube	0.02	CHKRC547-07
8	Circlip of Inner Cylinder	0.04	CHKRC547-08
9	Air Screen	0.02	CHKRC547-09
10	Distributor	0.45	CHKRC547-10
11	O Ring of Distributor Nozzle	0.02	CHKRC547-11
12	Plunger	0.55	CHKRC547-12
13	Y Ring of Plunger	0.02	CHKRC547-13
14	Spring	0.12	CHKRC547-14
15	O Ring of Inner Cylinder	0.02	CHKRC547-15
16	Inner Cylinder	10.8	CHKRC547-16
17	Piston	17	CHKRC547-17

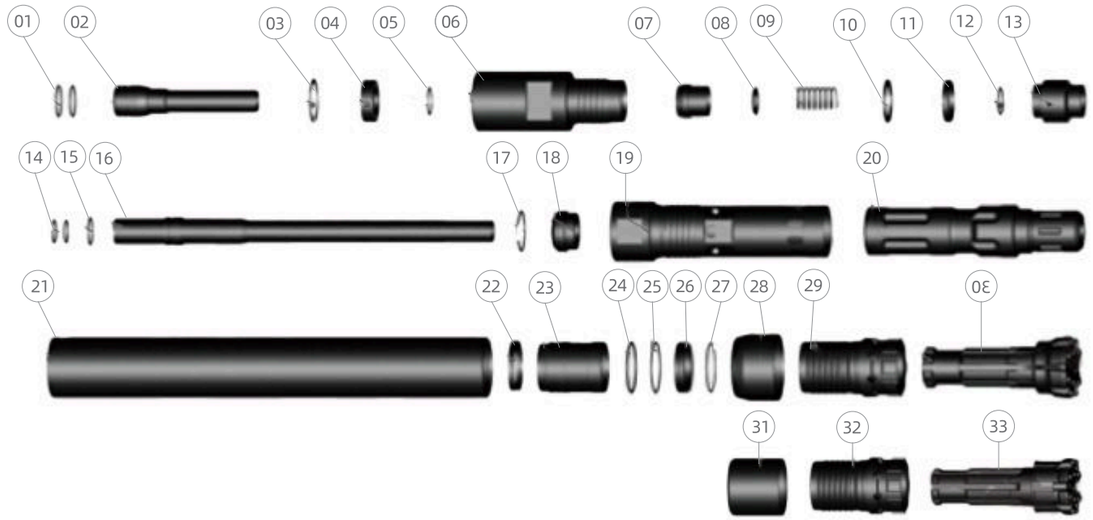
Ref.	Parts	Weight (KG)	Part No.
18	External Cylinder	18.45	CHKRC547-18
19	Bush Drive Sub	2.95	CHKRC547-19
20	O Ring of Bush Drive Sub	0.02	CHKRC547-20
21	Bush Retaining Ring	0.04	CHKRC547-21
22	Bit Retaining Ring	0.25	CHKRC547-22
23	O Ring of Bit Retaining Ring	0.02	CHKRC547-23
24	Shroud	1.7	CHKRC547-24
25	Drive Sub	3.3	CHKRC547-25
26	Drill Bit	-	CHKRC547-26

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
1248mm	72.8Kg	Φ124.5mm	4.5"Remet	CHK RC547	Φ130-Φ146mm

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	27m³/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 RC52R



Ref.	Parts	Weight (KG)	Part No.
1	Jump Ring	0.03	CHKRC52R-01
2	O Ring	0.02	CHKRC52R-02
3	O Ring	0.02	CHKRC52R-03
4	Collecting Tube	7.2	CHKRC52R-04
5	Filter Screen	0.14	CHKRC52R-05
6	Tup Sub	13.5	CHKRC52R-06
7	Check Valve	0.6	CHKRC52R-07
8	Spring	0.1	CHKRC52R-08
9	O Ring	0.02	CHKRC52R-09
10	O Ring	0.02	CHKRC52R-10
11	Valve Seat	1.4	CHKRC52R-11
12	O Ring	0.02	CHKRC52R-12
13	Inner Cylinder	3	CHKRC52R-13
14	Piston	18	CHKRC52R-14
15	Piston Case	22.5	CHKRC52R-15
16	O Ring	0.02	CHKRC52R-16
17	O Ring	0.02	CHKRC52R-17

Ref.	Parts	Weight (KG)	Part No.
18	Guide Sleeve	1.9	CHKRC52R-18
19	Retainer Ring	0.3	CHKRC52R-19
20	O Ring	0.02	CHKRC52R-20
21	Driver Chuck	4	CHKRC52R-21
22	Shroud	1.6	CHKRC52R-22
23	Drill Bit	-	CHKRC52R-23

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
1208 mm	75.2 kg	Φ126 mm	4 1/2" Remet	CHK RC52R	Φ130 – Φ146 mm

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 RC54R



Ref.	Parts	Weight (KG)	Part No.
1	Backhead	11.5	CHK RC54R-01
2	O Ring ×2	0.02×2	CHK RC54R-02
3	Adapter Tube	2.27	CHK RC54R-03
4	Air Screen	0.39	CHK RC54R-04
5	O Ring ×2	0.02×2	CHK RC54R-05
6	Circlip	0.03	CHK RC54R-06
7	Check Valve	0.4	CHK RC54R-07
8	Rubber Spacer	0.1	CHK RC54R-08
9	Check Valve Spring	0.1	CHK RC54R-09
10	Gasket	0.1	CHK RC54R-10
11	Rubber Spacer	0.1	CHK RC54R-11
12	Air Distributor	1.58	CHK RC54R-12
13	O Ring	0.02	CHK RC54R-13
14	O Ring ×2	0.02×2	CHK RC54R-14
15	Inner Tube	7.43	CHK RC54R-15
16	O Ring	0.02	CHK RC54R-16
17	Sample Tube Retainer	1	CHK RC54R-17

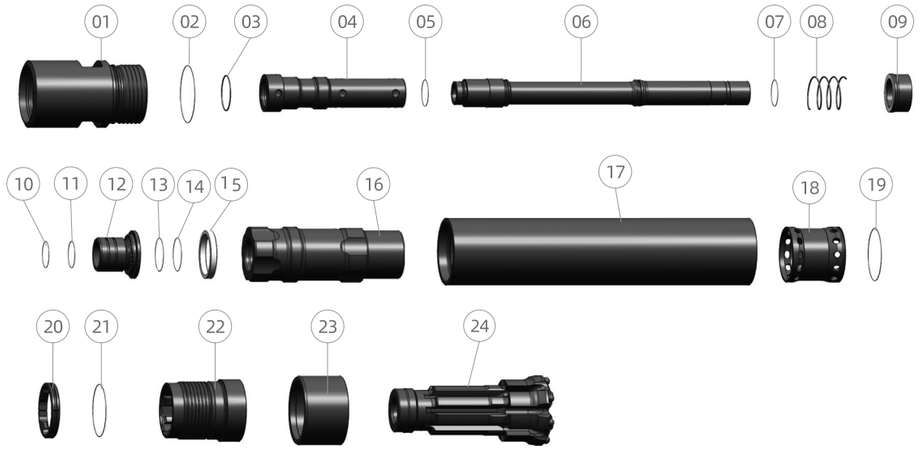
Ref.	Parts	Weight (KG)	Part No.
18	O Ring	0.02	CHK RC54R-18
19	Inner Cylinder	8.25	CHK RC54R-19
20	Piston	16.7	CHK RC54R-20
21	Piston Case	23.5	CHK RC54R-21
22	Piston Retaining Ring	0.1	CHK RC54R-22
23	Guide Sleeve	2.5	CHK RC54R-23
24	O Ring	0.02	CHK RC54R-24
25	O Ring ×2	0.02×2	CHK RC54R-25
26	Retainer Ring	0.08	CHK RC54R-26
27	O Ring	0.02	CHK RC54R-27
28	Chuck Drive	4.1	CHK RC54R-28
29	Shroud	-	CHK RC54R-29
30	Drill Bit	-	CHK RC54R-30

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
1294 mm	81 kg	Φ130 mm	4 1/2" Remet	CHK RC54R	Φ135 – Φ150 mm

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 RC045



Ref.	Parts	Weight(KG)	Part No.
1	Tup Sub	8.64	CHKRC45-01
2	O Ring	0.02	CHKRC45-02
3	O Ring	0.02	CHKRC45-03
4	Valve Rod	1.31	CHKRC45-04
5	O Ring	0.02	CHKRC45-05
6	Collecting Tube	3.54	CCHKRC45-06
7	O Ring	0.02	CHKRC45-07
8	Spring	0.14	CHKRC45-08
9	Check Valve	0.42	CHKRC45-09
10	O Ring	0.02	CHKRC45-10
11	O Ring	0.02	CHKRC45-11
12	Adapter	1.21	CHKRC45-12
13	O Ring	0.02	CHKRC45-13
14	O Ring	0.02	CHKRC45-14
15	Rubber Buffer	0.04	CHKRC45-15
16	Piston	10.46	CHKRC45-16
17	Piston Case	16.25	CHKRC45-17

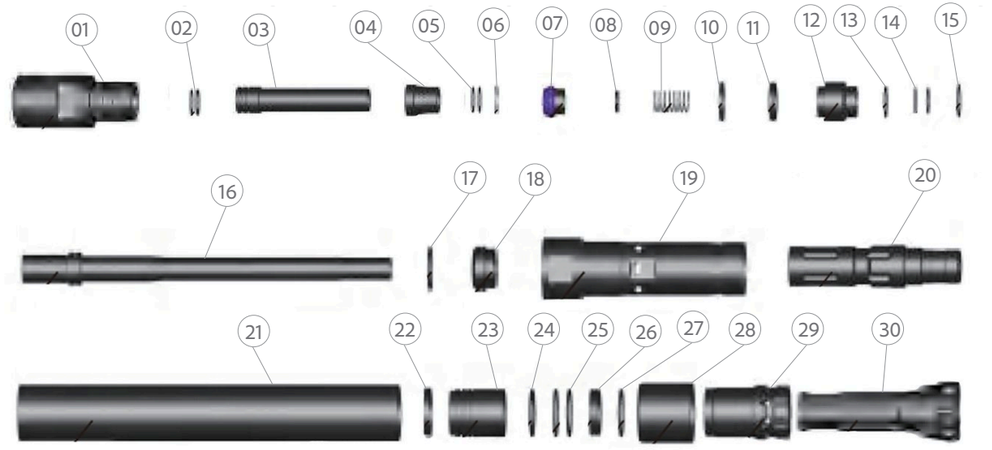
Ref.	Parts	Weight(KG)	Part No.
18	Guided Sleeve	1.15	CHKRC45-18
19	O Ring	0.02	CHKRC45-19
20	Retainer Ring	0.26	CHKRC45-20
21	O Ring	0.02	CHKRC45-21
22	Driver Chuck	2.84	CHKRC45-22
23	Shroud	1.74	CHKRC45-23
24	Drill Bit	-	CHKRC45-24

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
842mm	48.2kg	Φ125mm	Remet 4 1/2"	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

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
124mm	81.7kg	Φ130mm	Remet 4.5"	CHK PR54	Φ130-Φ150mm

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

CHK RC50



Ref.	Parts	Weight (KG)	Part No.
1	Crossover Sub	8.92	CHKRC50-01
2	Crossover Sub Adapter Tube	2.19	CHKRC50-02
3	O Ring of Adapter	0.02	CHKRC50-03
4	Internal Circlip	0.04	CHKRC50-04
5	Top Sub (4½" Remet)	8.92	CHKRC50-05
6	Adaptor Screen (4½" Remet)	2.19	CHKRC50-06
7	O Ring of Adaptor Screeng 01	0.02	CHKRC50-07
8	Resilient Assembly	0.03	CHKRC50-08
9	O Ring of Adaptor Screeng 02	0.02	CHKRC50-09
10	Check Valve	0.42	CHKRC50-10
11	Rubber Ring	0.05	CHKRC50-11
12	Y Ring of Plunger	0.02	CHKRC50-12
13	Check Valve Spring	0.10	CHKRC50-13
14	Top Sub Outer O-Ring	0.02	CHKRC50-14
15	Spring Seat	1.40	CHKRC50-15
16	Spring Seat Retaining Ring	0.04	CHKRC50-16
17	Inner Tube	4.52	CHKRC50-17
18	O Ring of Inner Tube	0.02	CHKRC50-18
19	Inner O Ring of Top Sub	0.02	CHKRC50-19

Ref.	Parts	Weight (KG)	Part No.
20	Nylon Valve Sleeve	1.90	CHKRC50-20
21	Valve Sleeve O-Ring 01	0.02	CHKRC50-21
22	Valve Sleeve O-Ring 02	0.02	CHKRC50-22
23	Inner Cylinder	7.39	CHKRC50-23
24	O Ring of Adaptor Screeng 03	0.02	CHKRC50-24
25	Piston Nylon Guide Ring	0.10	CHKRC50-25
26	Piston Retaining Ring of Inner Cylinder	0.13	CHKRC50-26
27	Piston	14.60	CHKRC50-27
28	External Cylinder	18.80	CHKRC50-28
29	Bit Bearing Retaining Ring	0.31	CHKRC50-29
30	Bush Drive Sub	1.89	CHKRC50-30
31	O Ring of Bush Drive Sub	0.02	CHKRC50-31
32	Bit Retaining Ring	0.31	CHKRC50-32
33	O Ring of Bit Retaining Ring	0.02	CHKRC50-33
34	Driver Sub	4.17	CHKRC50-34
35	Shroud, 138 mm	1.86	CHKRC50-35
36	Bit -140mm drop center face		CHKRC50-36
37	O-Ring Kit		CHKRC50-37

TECHNICAL SPECIFICATION

Length(Less bit)	Weight	Outer diameter	Connection Thread	Bit Shank	Hole Range
1,227mm	68.5kg	Φ121mm	Remet 4 1/2"	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

Product Introduction

REVERSE CIRCULATION DRILL BIT

REVERSE CIRCULATION SERIES



REVERSE CIRCULATION DRILL BIT

DRILL BIT CHARACTERISTICS

 Flat Face	 Convex Face	 Convave Face	 Double Gauge Face	 Drop Center
This flat face is suitable for drilling very hard rock formations and corrosive wall formations at high air pressures.	This convex face is suitable for low-to-medium-pressure drilling of soft-medium hard rock formations.	This Concave face is suitable for all rock formations.	This double-sided button face is suitable for drilling very hard rock formations at high air pressures.	This drop center face is suitable for using low-medium pressure to drill soft-medium hard and fractured rock formations.

CARBIDE BUTTON SHAPE SELECTION

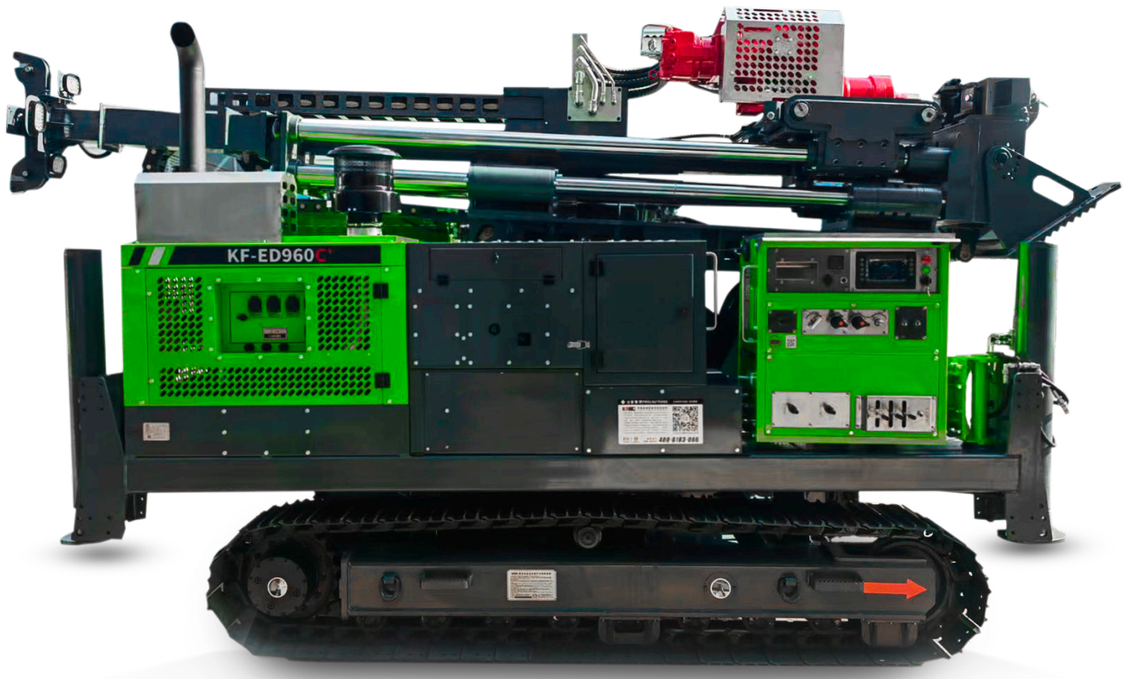
Tooth profile	Product Name	Application
Domed/Round Button		Domed/round buttons are usually used as gauge buttons of DTH bits, suitable for very abrasive and very hard formations.
Parabolic/Semi-Ballistic Button		Parabolic buttons are usually used as gauge buttons and front buttons of DTH bits, suitable for medium abrasive and hard formations.
Ballistic Button		Ballistic buttons are usually used as front buttons of dth bits, suitable for medium abrasive and medium hard formations. They can also be used as gauge buttons if the rock is soft.
Sharp Button		Sharp buttons are usually used as front buttons of DTH bits for soft formations, suitable for high rotation speed and low bit broken rate soft rock.
Flat Button		Flat buttons are usually used as protection buttons to reduce wear on rubbing surface of DTH bits.

TECHNICAL PARAMETERS

Model	Typical Diameter (mm)	Head Diameter (mm)	Spline	Port holes	Weight Range (kg)
CHK RC543	127 / 130 / 133	127–133	8	2	10.9 – 11.4
CHK RC547	133/136/140/143	133-143	8	2	14.8 – 15.8
CHK RC052	140 / 143 / 146	140–146	8	2	16.6 – 17.1
CHK RC52R	133 / 136 / 140 / 143	133–143	8	2	16.5 – 17.1

CORE DRILLING RIG

CORE SERIES

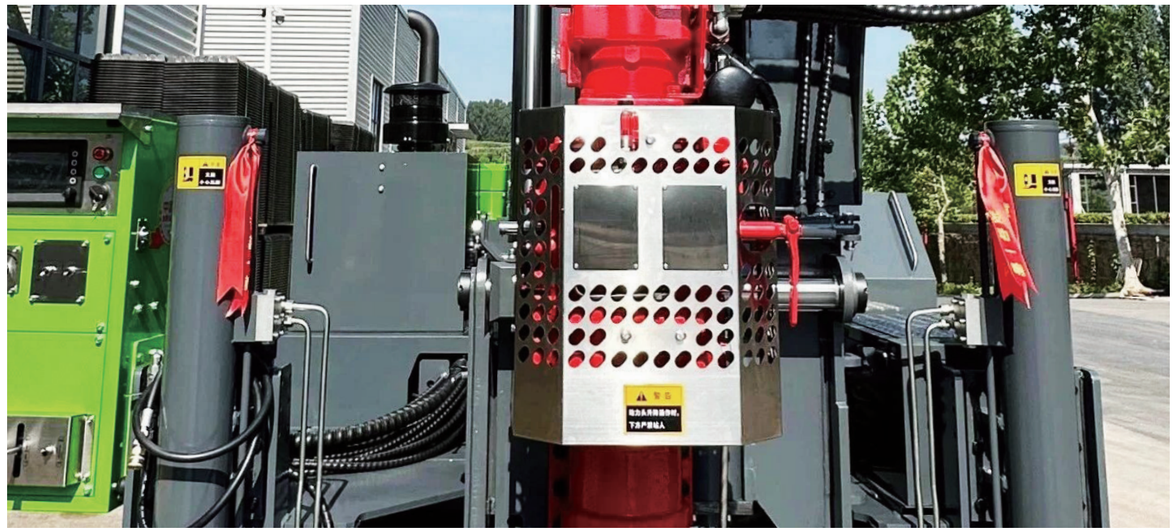


KF-ED960C+

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



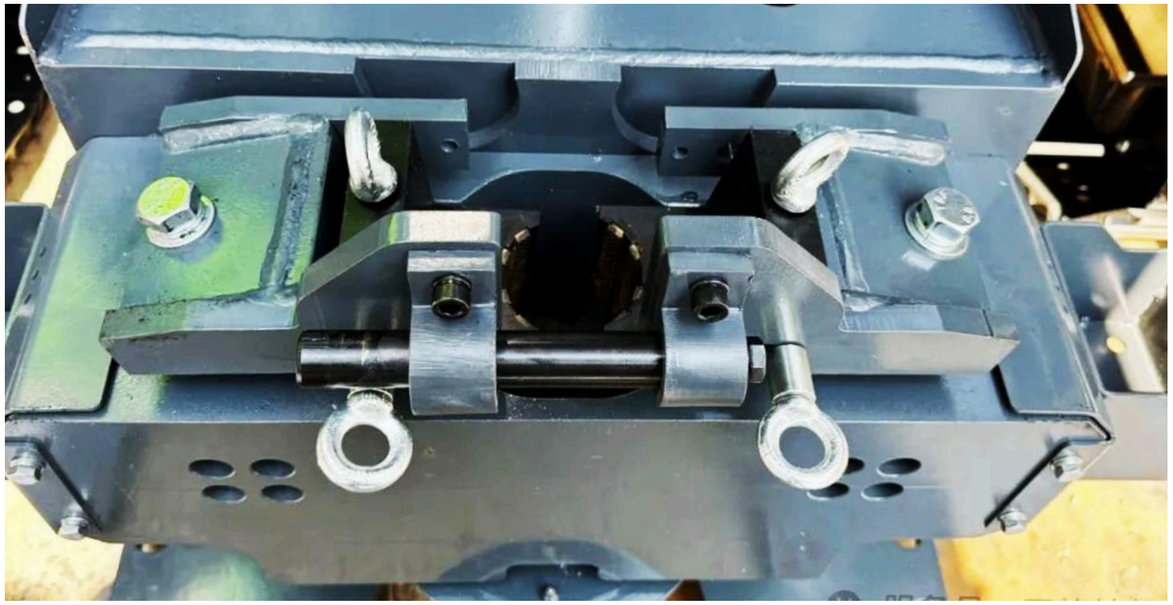
1.CUMMINS POWER, EASIER MAINTENANCE

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.



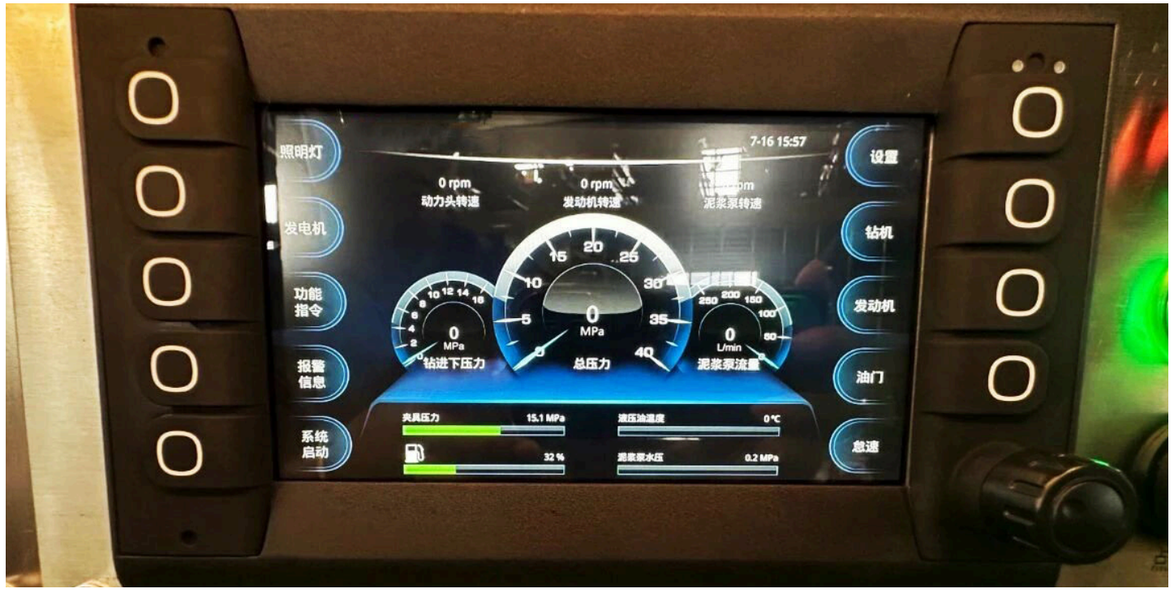
4. VARIABLE-FREQUENCY BRUSHLESS MAINTENANCE-FREE GENERATOR

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

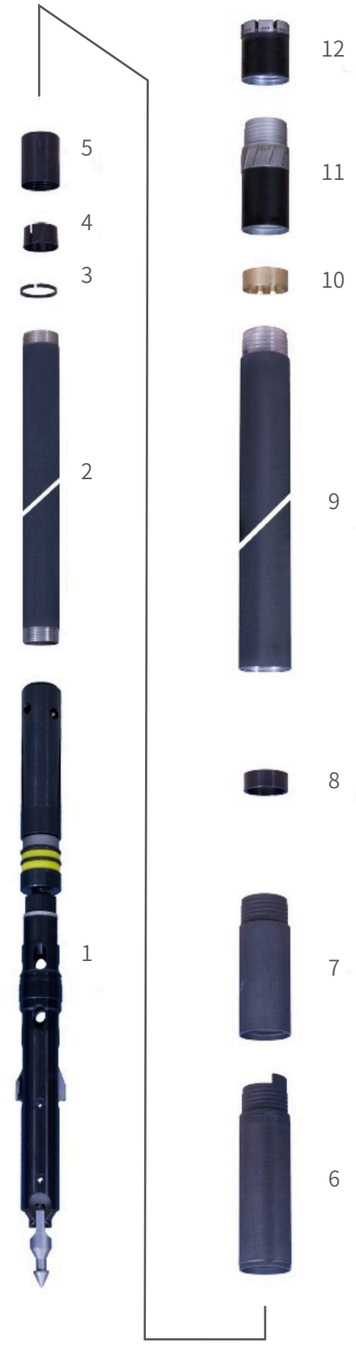
*Note: Photographs and illustrations, parameters are for reference only and do not represent the standard version of the equipment. The company reserves the right to make changes without prior notice.

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.

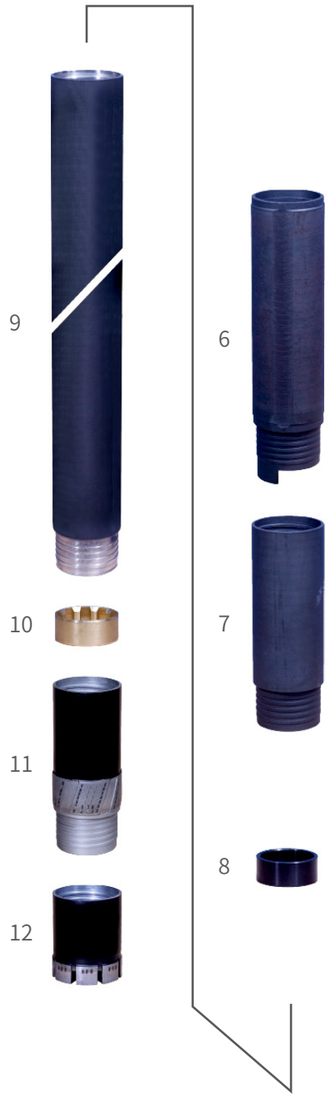
A double tube core barrel consists of two main assemblies: the outer tube assembly and the inner tube assembly.

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

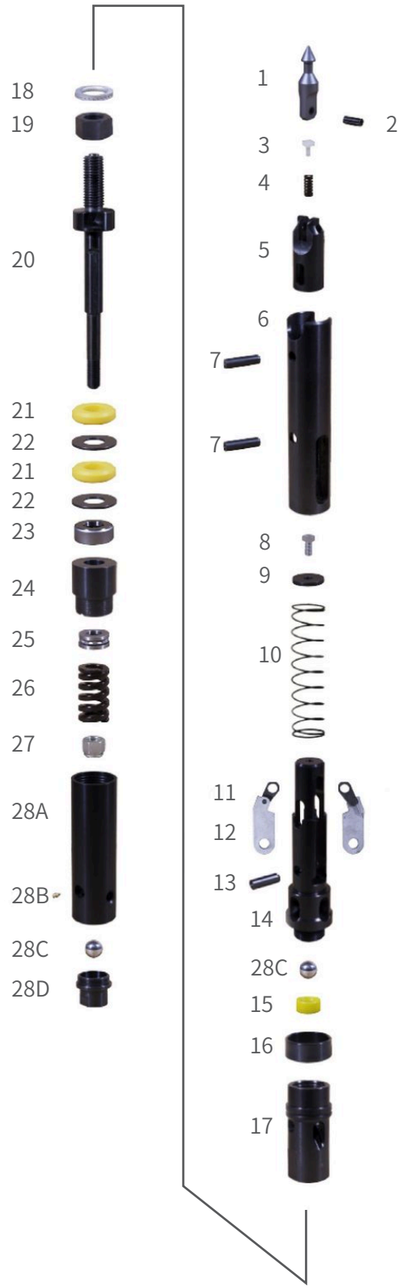


Wireline Coring Double Tube Drill String Outer Tube System consists of 7 components: centralizer, split set chamber, seat ring, outer tube, centralizing ring, reamer, and drill bit.

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

NQ HEAD ASSEMBLY

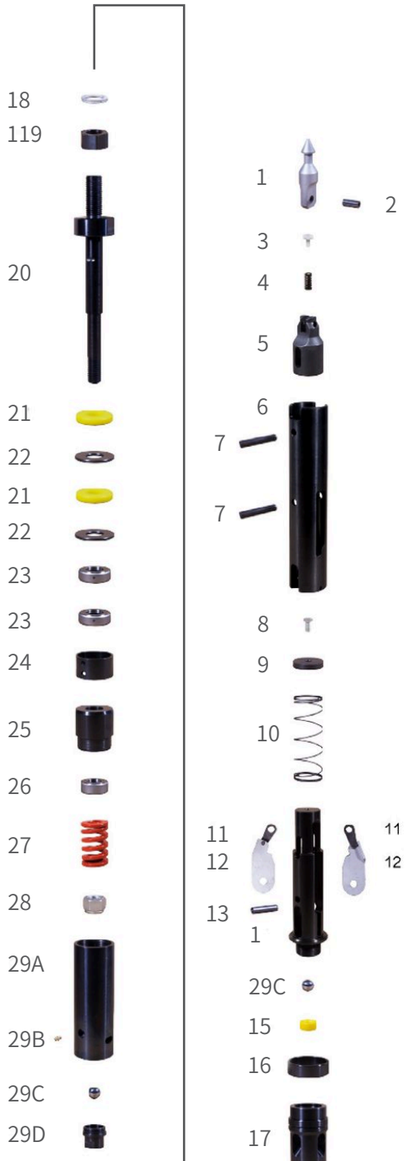
PARTS LIST AND PART NUMBERS



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

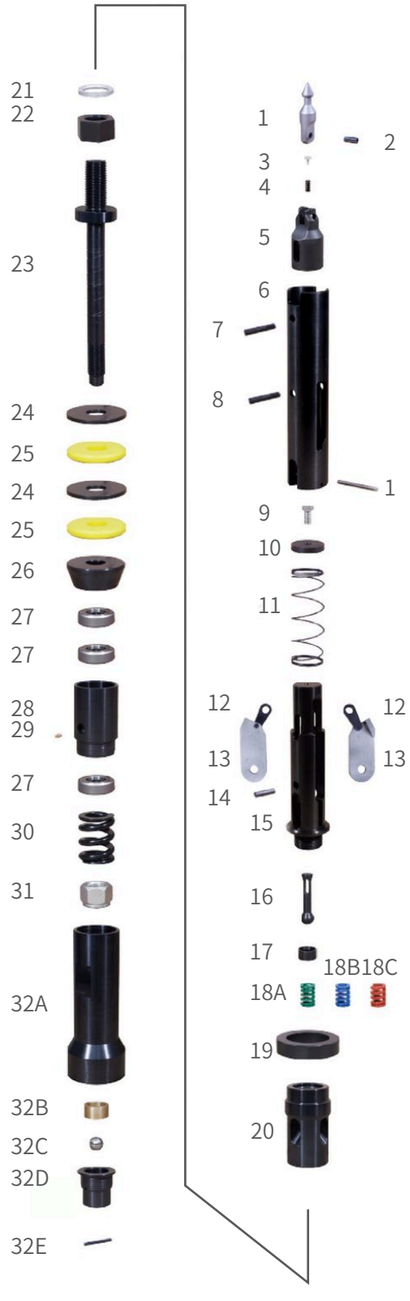
PARTS LIST AND PART NUMBERS



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

CORE DIAMOND BIT & REAMING SHELL & DRILL ROD

CORE SERIES



CORE DIAMOND BIT & REAMING SHELL & DRILL ROD

CORE DIAMOND BIT



Core Diamond Bit are manufactured using a stable and proven sintering process, featuring a reliable structure and strong adaptability. They are widely used in geological exploration and core drilling applications.

Matrix heights are available in C6, C9, C12, C15 and C25, allowing flexible selection according to different formation conditions.

The matrix grades adopt the K series configuration, including K1, K3, K5, K7, K9 and K11, suitable for soft, medium-hard and hard complex formations.

Different K grades provide a balanced combination of wear resistance, cutting efficiency and service life, improving drilling efficiency and extending bit lifespan.

SELECTION GUIDE FOR CORE DIAMOND BIT MATRIX

CORE DIAMOND BIT MATRIX SELECTION GUIDE (BASED ON ROCK HARDNESS)

Rock Hardness	Soft Rock	Soft Rock	Soft Rock	Medium Hard Rock	Medium Hard Rock	Medium Hard Rock	Hard Rock	Hard Rock	Extra Hard Rock
Mohs Hardness	1–2.5	3–3.5	4	4.5	5–5.5	6–6.5	7–7.5	8	8.5
K Matrix Grades	K1	K3	K3 / K5	K3 / K5	K5 / K7	K5 / K7 / K9	K7 / K9	K9 / K11	K11
Boart Longyear ALPHA series	—	2	02 06ABR 07ABR	02 06ABR 07ABR	06ABR 07ABR	06ABR 07ABR 08ABR 08COM	08ABR 08COM 09 09COM	09 09COM 10COM	09 09COM 10COM
Boart Longyear UMX series	SSUMX	SSUMX 07UMX	SSUMX 07UMX 09UMX	SSUMX 07UMX 09UMX	SSUMX 07UMX 09UMX	SSUMX 07UMX 09UMX	07UMX 09UMX 10UMX	09UMX 10UMX	09UMX 10UMX
ATLAS	—	3AC	7AC	7AC	7AC, 11AC	11AC	11AC 13AC	13AC	15AC
FORDIA	—	HERO3	HERO7	HERO7	9-11, HERO7	9-11, HERO9	9-11 HERO11	11-14	11-14

CORE DIAMOND BIT MATRIX MATCHING GUIDE (BASED ON MATRIX HARDNESS & DRILLING CONDITIONS)

Bit Matrix	K1	K3	K5	K7	K9	K11
Matrix Hardness	HRC54	HRC42	HRC30	HRC18	HRC06	HRC00
Rock Hardness	Select K1 in case of low working life of K3	Soft Rock → Medium Hard Rock → Hard Rock				Select K11 without footage of K9
Grain Size		Large Grain ← Medium Grain ← Fine Grain				
Rock Breakage		Serious Breakage → Normal Breakage → Complete				
Drilling Rig Power		High Power ← Medium Power ← Low Power				

CORE DIAMOND BIT STANDARDS AND TECHNICAL SPECIFICATIONS

Standard	Description	OD × ID (mm)	Matrix Height	K Matrix Grades
AC	Core Diamond Bit	47.6 × 27.0	C9	K7, K9
BC	Core Diamond Bit	59.5 × 36.3	C9, C12	K7, K9, K11
NQ	Core Diamond Bit	75.3 × 47.6	C9, C12	K3, K5, K7, K9
HQ	Core Diamond Bit	95.6 × 63.5	C9, C12	K3, K5, K7, K9
PQ	Core Diamond Bit	122.0 × 85.0	C9, C12	K3, K5, K7, K9

GUIDELINE FOR IMPREGNATED DIAMOND BITS OPERATING PARAMETERS

Standard	Flow Rate (L/min)	Rotation Speed (rpm)	Penetration Rate				Weight on Bit	
			200 rpi	250 rpi	80 r/cm	100 r/cm	lb	kN
AC	20–40	2000 / 1200 / 850	10 / 6 / 4.25	8/ 4.8 / 3.4	25 / 15 / 11	20 / 12 / 9	2,000–5,000	9–23
BC	30–45	1700 / 1000 / 700	8.5 / 5 / 3.5	6.8 / 4 / 2.8	22 / 13 / 9	17 / 10 / 7	2,000–5,000	9–23
NQ	45–85	1350 / 800	6.75 / 4	5.4 / 3.2	17/10	14 / 8	3,000–6,000	14–27
HQ	50–100	1000 / 600	5/3	4 / 2.4	13/8	10 / 6	4,000–8,000	18–36
PQ	60–120	800 / 500	4 / 2.5	3.2 / 2	10/6	8 / 5	5,000–10,000	23–45

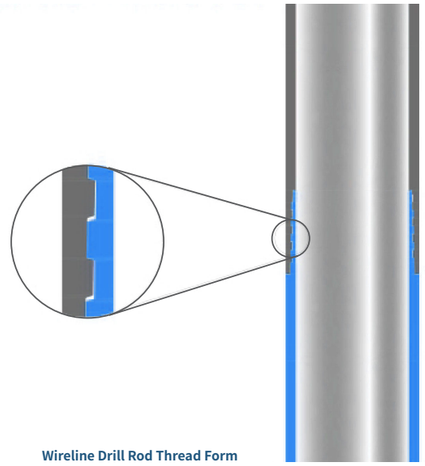
REAMING SHELL STANDARD & TECHNICAL SPECIFICATIONS



Standard	Description	Outer Diameter (mm)
AC	Reaming Shell	48
BC	Reaming Shell	59.9
NQ	Reaming Shell	75.7
HQ	Reaming Shell	96.1
PQ	Reaming Shell	122.6

WIRELINE DRILL ROD OVERVIEW

The wireline drill rods are manufactured from high-strength, high-toughness special geological steel pipes, processed through high-precision CNC machining and strict heat treatment processes. All drill rod threads are inspected using dedicated thread gauges, and the threaded sections are specially strengthened. The drill rods feature consistent concentricity and straightness, with dimensional accuracy and mechanical properties reaching internationally advanced standards.



Wireline Drill Rod Thread Form

WIRELINE DRILL ROD TECHNICAL SPECIFICATION

Standard	OD (mm)	ID (mm)	Wall Thickness (mm)	TPI	Pin Thread Length (mm)	Weight (kg/m)
BC	55.7	46.1	4.8	3	44.45	6.03
NQ	70.5	60.3	5.1	3	44.45	8.08
HQ	89	77.8	5.6	3	44.45	11.52
PQ	114.3	101.9	6.2	2.5	63.5	16.53

3 M DRILL ROD PACKAGING PARAMETERS

Code	Name	Net Weight per Rod (kg)	Number of Rods	Gross Weight (kg)	Length×Width×Height (mm)	Volume (m^3)
CHK-BC-3000	3 m, BC Drill Rod	18.08	50	900	3100×665×380	0.78
CHK-NQ-3000	3 m, NQ Drill Rod	24.23	36	920	3100×535×530	0.88
CHK-HQ-3000	3 m, HQ Drill Rod	34.55	25	940	3100×550×545	0.93
CHK-PQ-3000	3 m, PQ Drill Rod	49.59	16	800	3120×565×560	0.98

1.5 M DRILL ROD PACKAGING PARAMETERS

Code	Name	Net Weight per Rod (kg)	Number of Rods	Gross Weight (kg)	Length×Width×Height (mm)	Volume (m^3)
CHK-BC-1500	1.5 m, BC Drill Rod	9.04	50	440	1600×665×380	0.41
CHK-NQ-1500	1.5 m, NQ Drill Rod	12.11	36	460	1600×535×530	0.45
CHK-HQ-1500	1.5 m, HQ Drill Rod	17.28	25	470	1600×550×545	0.48
CHK-PQ-1500	1.5 m, PQ Drill Rod	24.79	16	420	1620×565×560	0.51

DRILLING TOOLS & ACCESSORIES

CORE SERIES



Polyacrylamide

DRILLING TOOLS & ACCESSORIES





Core Barrel



Head Assembly



Inner And Outer Tube



Core Lifter, Core Lifter Case , Stop Ring, Landing Ring & Inner Tube Stabilizer



Adapter Coupling & Loking Coupling



Core Drill Bit & Reamer



Over Shot



Core Drill Pipe



Mud Pump



Mud Pump



Fishing Tools



Wrenches



Sub Adaptors



25K Water Swivel



Core Box



Core Diamond Bit