

JCDRILL

CRD1000

MULTIFUNCTIONAL TRUCK MOUNTED DRILLING RIG

- Diamond Core
- RC(Reverse Circulation)
- Auger
- DTH(Down The Hole)



**Unite in performance.
Inspired by innovation.**

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WECHAT



WHATSAPP



**One Drilling rig,
Four Drilling Method**



CRD1000 Full Hydraulic RC & Core Drilling Rig

The CRD1000 is a kind of rig designed for geological exploration. It is mainly suitable for both reverse circulation & diamond drilling with wire line coring technique. The rig consists of diesel power unit, hydraulic system, control panel, mast, main winch, wireline winch, drill head, feed system, footclamp, etc.

The rig is completely hydraulic driven for all its surface coring function. Truck-mounted design makes the rig in good mobility and transportability, facilitating access to various sites. Robust structure plus exact control system ensures high penetration rate and outstanding reliability.

The CRD1000 drilling rig can be operated in unconsolidated layer, and the slag can be discharged under by mud, it suitable for drilling complicated geological conditions.



Versatile Dual Drilling Capability with High Performance

Full support for both RC (reverse circulation) and wireline diamond core drilling (up to 1100m/1000m/500m for core, 500m for RC), with strong torque (up to 11500 Nm in RC mode), wide speed range, and equipped with CUMMINS diesel engine (154 kW), onboard BW150 high-pressure mud pump, and air compressor. This multipurpose design delivers high penetration rates, reliability in complex geology (clay, sand, rock), and efficiency in one rig — saving customers from needing separate machines for different methods.



Excellent Mobility and Fast Site-to-Site Transfer

Mounted on a powerful SINOTRUK HOWO 6×4 truck chassis with a 340 HP engine and a maximum road speed of 102.9 km/h, the CRD1000 enables rapid and efficient travel between drilling locations directly on public roads. This truck-mounted design eliminates the need for separate transport trailers or low-loaders, dramatically reducing logistics costs, transit time, and setup delays. It is especially advantageous for projects that span large areas or require frequent relocation across multiple sites, allowing operators to maximize productive drilling time.



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>> Main components

Full Hydraulic Drill Head

Fully hydraulic-powered drill head with diesel-driven pumps for smooth rotation and full-stroke feeding at variable high/low speeds.

Centralized & Efficient Control

Centralized console for all operations. Fast pulling/lifting minimizes auxiliary time and maximizes efficiency.

>> Specification

Specification	Unit	CRD1000
Drilling Method		RC & Wireline Diamond Core Drilling
Drill Depth (Wireline core)	m	1100 / 1000 / 500
Drill Depth (RC)	m	500
Drilling Diameter (Wireline core)		BQ / NQ / HQ
Drilling Diameter (RC)	mm	90-165
Drilling Angle	°	45-90
Rotary Head		
Rotation Torque (Wireline core)	Nm	1000-3500
Rotation Torque (RC)	NM	6500-11500
Max. Rotation Speed (Wireline core)	rpm	650-1700
Max. Rotation Speed (RC)	rpm	40-140
Rotary Head Shaft Thread (Wireline core)		BQ / NQ / HQ
Rotary Head Shaft Thread (RC)		Remet / Metzke
Head Travel	mm	3,500
Truck		
Manufacturer		SINOTRUK HOWO
Engine Model		WP10.340E22
Rated Horse power	HP	340
Discharge Standard		EU-2
Drive Type		6*4
Max. Speed	km/h	102.9
Steering Wheel		Left/ right (Optional)
Mast		
Type		Touch-down integrated tower
Lifting Force	T	30
Feeding Force	T	15
Diesel Engine		
Brand		CUMMINS
Type		6 Cylinder, Turbo, water cooling
Rated Rotation Speed	RPM	2,400
Rated Power	KW	154
Hydraulic Winch		
Main Winch Capacity	Ton	2
Rope Capacity	m	1000
Tools Winch Capacity	Ton	1
Rope Capacity	m	15
Rotation Speed	rpm	100-300
Wire Rope Diameter	mm	6
Air Compressor (On Board)		
Model		JAC35/ 35C
Pressure Required	Bar/ Psi	35/ 507
Air Consumption	m³/ min/ CFM	Left/ right (Optional)
Engine		CUMMINS
Model		QSZ13-C550-30
Rated Speed	RPM	1900
Engine Power	KW	410
Displacement	L	13
Mud Pump		
Model		BW150
Flow Capacity	L/Min	90-180
Max. Working Pressure	MPa	4-7
Hydraulic System		
Heat Dissipation Method		Air cooling& Water cooling
Rated Flow Rate	L/min	300
Rated Pressure	MPa	28
Stabilizing Jack		
4 Support legs		Hydraulic
Stroke	mm	600
Dimensions		
Transportation Size (L*W*H)	mm	11700*2550*3650
Weight	Ton	21

Versatile Mud Circulation Drilling

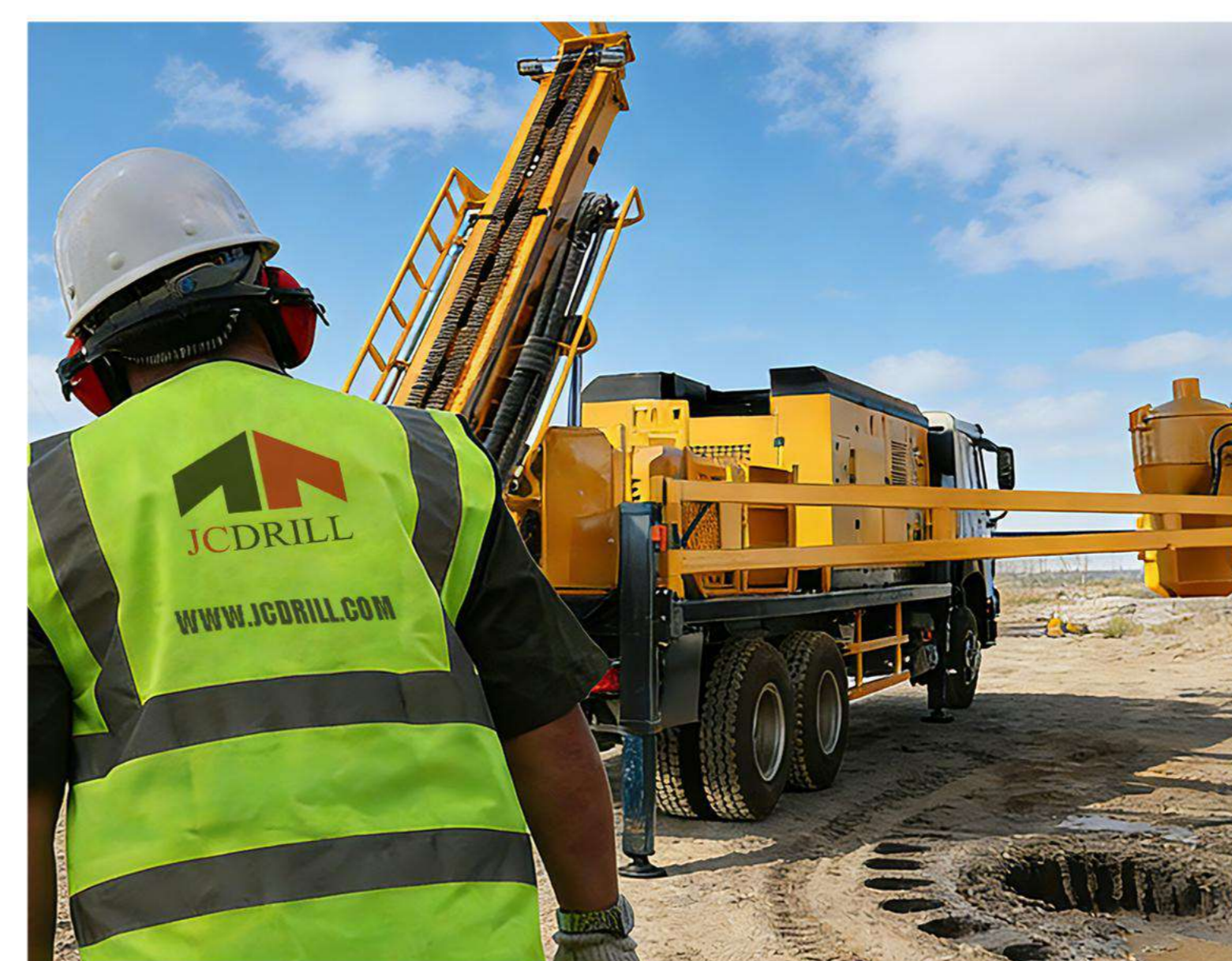
Hydraulic rotary rig with directional mud circulation. Equipped with BW150 pump (slurry flushing) — drills clay, sand, and rock with the right bit.

Powerful & Reliable Diesel Drive

High-performance diesel engine powers large-displacement high-pressure plunger pump for strong, stable, and consistent performance.

A flexible and versatile rig which delivers a fast return on investment

The CRD1000, built on a powerful SINOTRUK HOWO 6×4 truck chassis, combines full hydraulic drive with dual RC and wireline diamond core drilling capabilities. It excels in geological exploration, mineral resource investigation, and engineering geological surveys.



Mineral Exploration & Resource Investigation

The CRD1000 shines in mining and mineral prospecting projects, utilizing RC reverse circulation for fast sampling and wireline coring up to 1100 m depth. It handles complex formations with ease while the truck chassis allows quick highway access to remote mining areas, minimizing preparation time and maximizing exploration productivity.

Powerful Cummins On-Board Power & High-Pressure

Powered by a dedicated CUMMINS 6-cylinder turbo diesel engine (154 kW / 2400 rpm) and a large-displacement high-pressure plunger pump, the system delivers strong, stable output and excellent dynamic response for high penetration rates. Its reliable Cummins power supports deep wireline coring (up to 1100 m) and RC fast sampling in tough, variable formations, ensuring continuous long-duration drilling with high efficiency and minimal power loss, even in remote operations.

Versatile & Cost-Effective All-in-One Solution

One rig handles both RC fast sampling and deep core drilling, with onboard air compressor and optional Hydraulic SPT. This eliminates the need for multiple machines, lowers logistics and maintenance costs, and provides outstanding reliability for mineral exploration, engineering geological surveys, and large-scale geological investigations.

A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An JCDRILL service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an JCDRILL service from our certified technicians, we safeguard your productivity - wherever you are

A rig you can rely on

The CRD1000 is a full hydraulic truck mounted drilling rig engineered for superior performance in geological exploration. Its robust main structure combines high-strength steel components, precise integration, and user-friendly design to ensure stability, durability, and efficient operation in challenging terrains and complex geological conditions.



Heavy-Duty Truck Chassis

The CRD1000 is mounted on a reliable SINOTRUK HOWO 6×4 truck chassis powered by a 340 HP engine, offering excellent highway mobility, a maximum road speed of 102.9 km/h, and the ability to travel directly to drilling sites without additional transport equipment.

Touch-Down Integrated Tower Mast

Equipped with a robust touch-down integrated tower mast that provides a lifting force of 30 tons and a feeding force of 15 tons, ensuring stable support, smooth operation, and reliable performance during deep wireline coring and heavy-duty drilling tasks.

Full Hydraulic Rotary Drill Head

The high-performance rotary head is fully hydraulically driven, delivering variable torque (1000–3500 Nm for wireline core, 6500–11500 Nm for RC) and wide rotation speed ranges (650–1700 rpm for core, 40–140 rpm for RC), enabling precise control and efficient penetration in various geological formations.

Dedicated Cummins Power Unit

Powered by a CUMMINS 6-cylinder turbo-charged, water-cooled diesel engine (154 kW rated power at 2400 rpm), which drives the large-displacement high-pressure plunger pump to provide strong, stable, and responsive power for continuous high-efficiency drilling operations.



Hydraulic Stabilizing & Support System

Four powerful hydraulic stabilizing jacks with a 600 mm stroke ensure quick, secure leveling and stable positioning on uneven ground, enhancing safety, setup speed, and overall rig stability during drilling in diverse field conditions.



Advanced Hydraulic Winch System

Features a 2-ton main winch with 1000 m rope capacity and a 1-ton tools winch with 15 m rope capacity, both operating at 100–300 rpm, offering smooth and controlled wireline tripping, rod handling, and tool management for deep-hole and frequent operations.

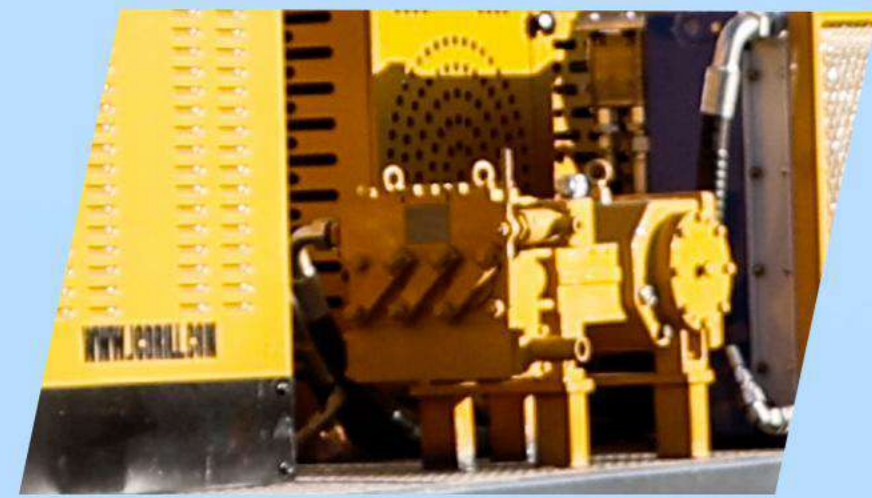
Integrated Mud & Air Circulation System

Includes the BW150 high-pressure mud pump (flow rate 90–180 L/min, max pressure 4–7 MPa) and an onboard air compressor, providing effective directional circulation and flushing for both RC reverse circulation and diamond core drilling in clay, sand, and rock formations.



CRD1000 Versatile Truck-Mounted Drilling Rig for RC and Diamond Core

The CRD1000 features a powerful and flexible circulation system that supports both reverse circulation (RC) and wireline diamond core drilling. With high-efficiency mud, air, and separation components, it ensures clean holes, fast sample recovery, and reliable performance in diverse geological conditions.



Mud Pump

Equipped with the reliable BW150 high-pressure mud pump (flow capacity 90–180 L/min, max working pressure 4–7 MPa), this system provides strong slurry circulation for effective hole cleaning, borehole stability, and excellent sample recovery in both RC and wireline core drilling. It performs consistently in clay, sand, gravel, and rock formations when using the appropriate bit.



Cyclone Separator

The high-efficiency cyclone uses centrifugal force to rapidly separate cuttings and solids from the return air/mud mixture, delivering clean, dry, and uncontaminated RC samples quickly. This ensures high sample quality and accuracy, making it ideal for fast mineral exploration and resource sampling.

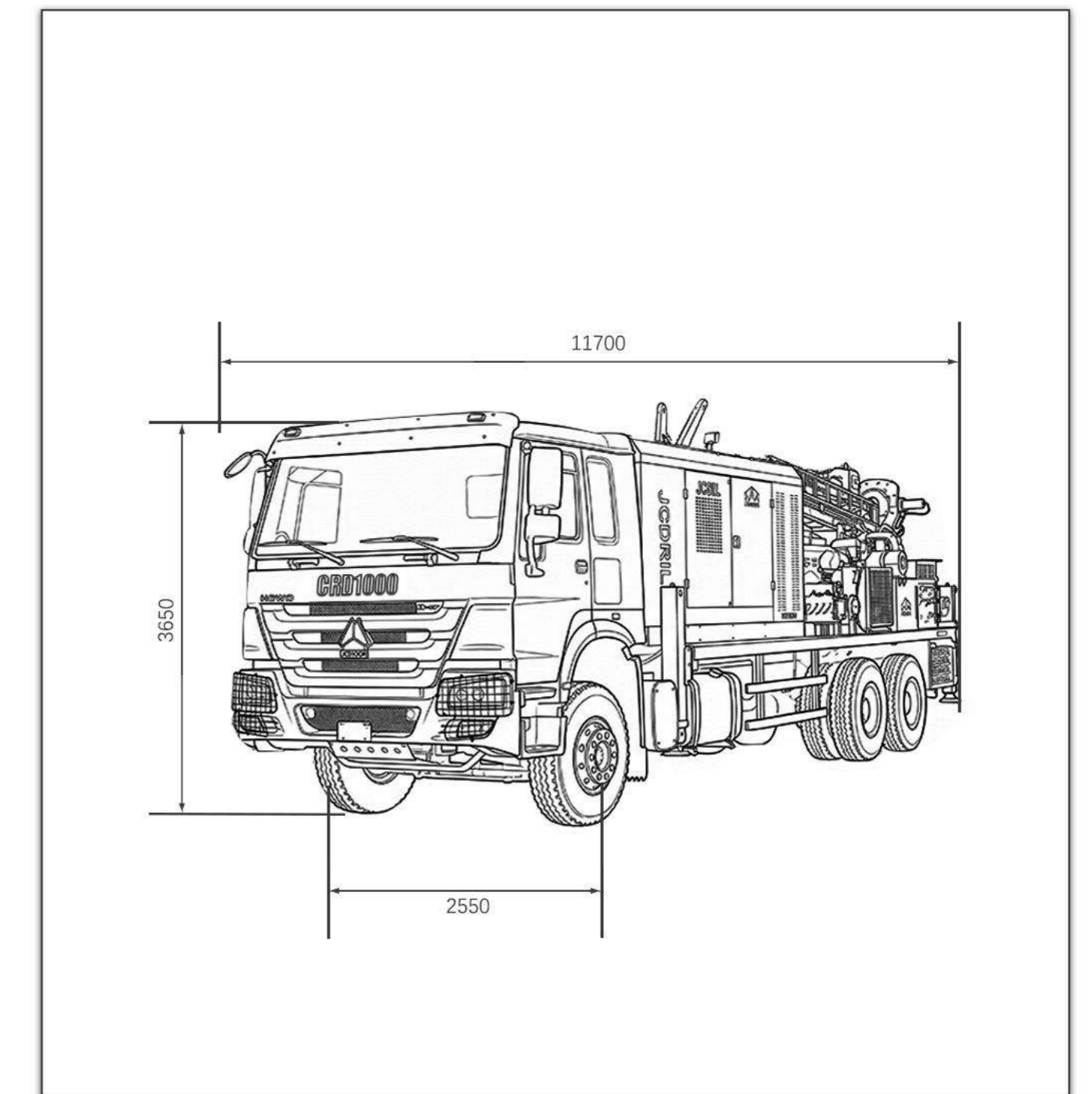
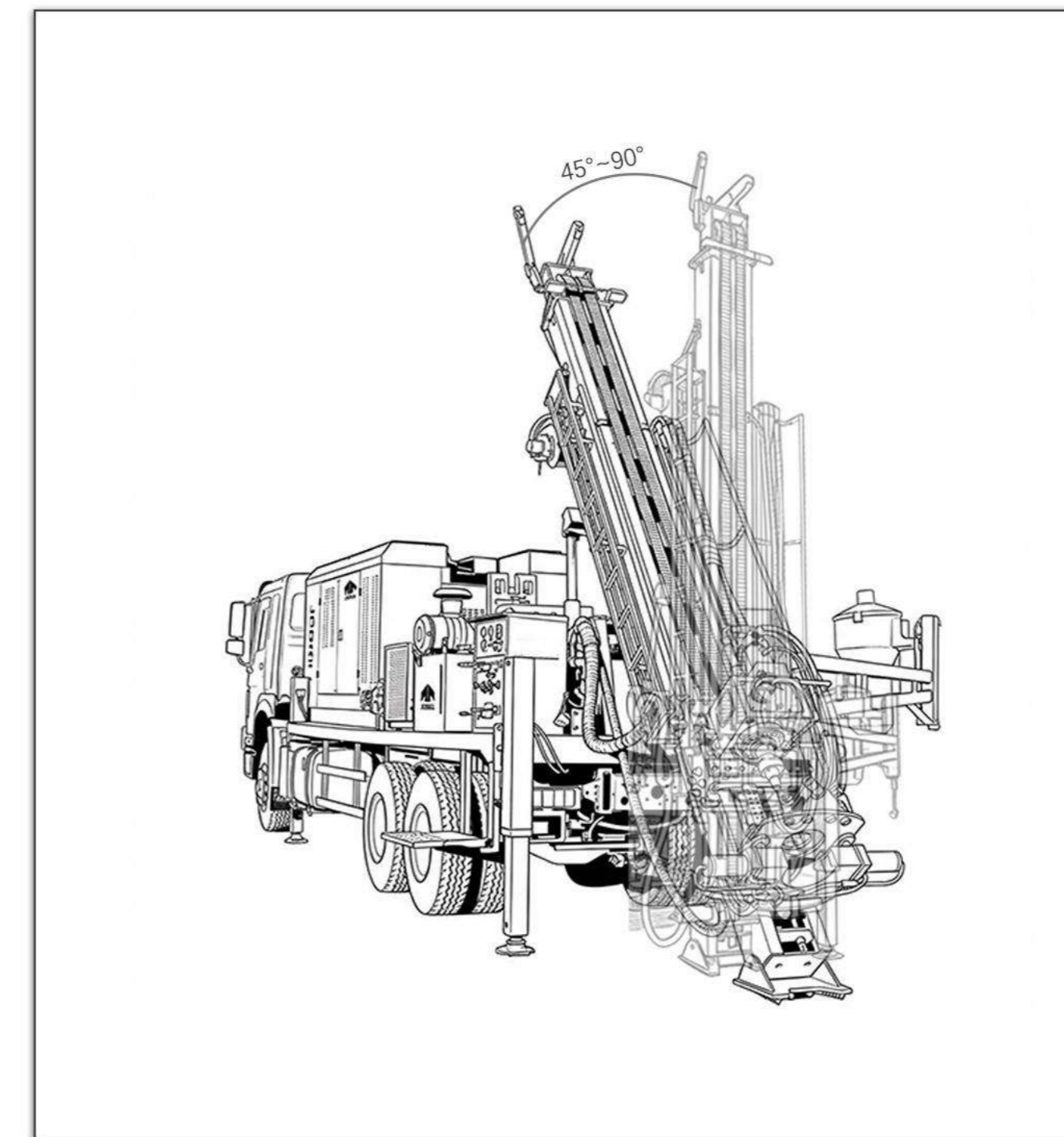
Efficient & High-Quality Sampling Performance

Onboard Air Compressor

Powered by a CUMMINS engine, the JAC35/35C air compressor delivers 35 bar (507 psi) pressure with strong airflow. It enables fast, dry or mist-assisted RC drilling, enhances penetration rate, and supports efficient sample lift in reverse circulation operations — perfect for high-productivity RC applications.



Machine Diagram



Stable Walking System

Superior Highway Mobility & Rapid Site-to-Site Transfer

Mounted on a heavy-duty SINOTRUK HOWO 6×4 truck chassis with 340 HP engine and maximum road speed of 102.9 km/h, the CRD1000 can drive directly to drilling sites on public roads. Unlike crawler rigs limited to ~4 km/h walking speed and requiring separate transport trailers or low-loaders, it eliminates long-haul towing, reduces logistics costs, and enables fast relocation between multiple sites — ideal for large-area or multi-point geological projects.

Quick Setup & Minimal Downtime

With four hydraulic stabilizing jacks (600 mm stroke) and integrated truck-mounted design, the CRD1000 achieves rapid leveling and positioning in typically under 30 minutes. Crawler rigs often need more time for stabilization on uneven terrain and additional transport logistics. This fast deployment maximizes productive drilling time, reduces non-working hours, and

Multiple Truck Chassis Options

The CRD1000 drilling rig can be equipped with various truck chassis to meet different operating conditions, including SINOTRUK SITRAK 6×6 for demanding off-road applications and the new SINOTRUK HOWO 6×4 for efficient and reliable road and site operations.

