



XDE130

HAUL TRUCK

120t
Rated Load

895kW
Engine Rated Power

73m³
Body SAE Heaped 2:1



XUZHOU CONSTRUCTION MACHINERY GROUP IMP. & EXP. CO., LTD

Address: No.1, Tuolanshan Road,
Xuzhou Economic Developing Zone, Jiangsu, China 221004
Tel: + 86(0)516 8773 9572
E-Mail: xcmglobal@xcmg.com



@XCMGGROUP | Q



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Website

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For more complete information on XCMG products, dealer services and industry solutions, visit us on the web at www.xcmglobal.com

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Ref.No.XCMG2605 English

01

EFFICIENT TRANSPORTATION

High-Performance Engine

It adopts a mining-customized high-performance diesel engine, with a choice of Cummins or MTU powertrains. The Cummins KTA38 engine meets U.S. EPA Tier 0 emissions standards, the Cummins QSK38 meets China's Non-Road Stage III and U.S. EPA Tier 2 standards, and the MTU engine meets China's Non-Road Stage III and U.S. EPA Tier 4i standards.

- Reliable performance and strong power;
- Produces clean, quiet, and efficient power;
- Reliable engine performance, advanced technology, convenient fault diagnosis, and easy maintenance.



AC Drive System

- The AC drive system is designed, developed, and integrated by XCMG. It combines a generator, converter cabinet, traction motor, and braking resistor into an intelligent control system. It features high power density, compact size, high efficiency, low loss, and long service life;
- Compared to mechanical drive systems, the electric drive system has a simpler structure, requires less hydraulic maintenance, reduces maintenance time, and has lower maintenance costs.
- The main generator uses a three-phase brushless excitation AC generator, offering a long service life and minimal maintenance.
- The traction motor is a three-phase squirrel-cage AC variable frequency induction motor, with mature technology, reliability, durability, and a long lifespan. The system includes features for monitoring the status and temperature of the inverter, generator, and traction motor, with overheating protection, ensuring longer lifespan and lower costs.

Electric Retarder Control System

The XDE130 braking system provides a maximum braking power of 1400 kW and a continuous braking power of 1100 kW. This ensures the ability to handle full-load emergency braking and continuous braking on downhill slopes, thereby enhancing vehicle safety and operational efficiency.

Weighing System

The onboard weighing system is used for detecting vehicle load data and data analysis, aiming to optimize payloads, maximize productivity, and reduce the machine's lifecycle costs.

It tracks and records the following key production parameters:

- Total number of transport trips
- Total transport weight
- Payload percentage distribution statistics
- Idle and full-load time and mileage



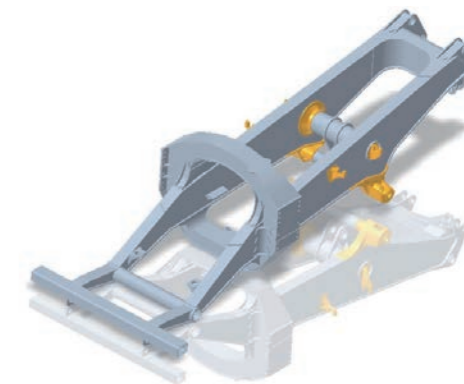
02

RELIABLE AND DURABLE



120-Ton Class Frame Design

The XDE130 frame utilizes advanced computer-aided design (CAD), finite element analysis (FEA), and comprehensive dynamic testing to ensure high structural strength and reliability for heavy load-bearing. The frame features a box-section design and is manufactured from high-strength, high-quality alloy steel plates. It exhibits excellent fatigue strength, low-temperature impact toughness, and weldability. Premium cast steel components are used in critical high-stress areas.



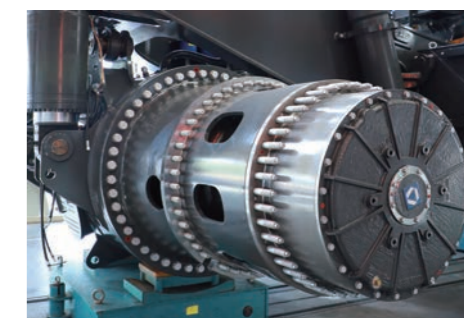
Simple and Reliable Hydraulic System

The hydraulic system design is simple and reliable, controlling steering, braking, and lifting functions with fewer components. A modular design integrates the hydraulic pump and hoist valve assembly onto a single bracket for quick maintenance and replacement. The multi-stage hydraulic oil filter design offers high filtration accuracy, large dirt-holding capacity, and extended maintenance intervals.



Two-stage NGW Planetary Gearbox

The XDE130 electric wheel gearbox features a two-stage NGW planetary gear system with power split. The high-speed stage inputs power into the sun gear, which then transfers power through the high-speed planet carrier to the low-speed stage sun gear. The torque is ultimately output through the dual-ring gear. The NGW gearbox features a compact structure, small size, high transmission ratio, large output torque, smooth operation, low noise, high efficiency, reliable performance, and long service life. The design lifespan of the gears is $\geq 60,000$ hours.



UNLIMITED INNOVATION

03

COMFORT AND SAFETY

Ergonomically Designed Cab

The design of the cab offers a comfortable and safe working environment to meet the demands of modern mining. The cab features ROFS and FOPS structural design, complying with ISO 3471 and 3449 standards. The interior layout is ergonomically designed with a rational arrangement of components, an exceptionally spacious interior, and an integrated touch screen. The climate control system meets the requirements of most mining environments. The cab features double-laminated glass and double-layered hollow glass, a dual-seal structure for the cab door, and a pressurization system. These elements collectively ensure multi-directional and multi-angle control of the cab's airtightness and noise levels.



User-friendly Display Interface

The XDE130 is equipped with a comfortable and operationally friendly dashboard that includes a CAN bus LCD integrated instrument panel, display screen, and function switches. This setup allows the driver to conveniently monitor vehicle status parameters and fault information while driving. The combined instrument panel integrates displays for engine, hydraulic system, drive system, and weighing system status and fault information, along with features for displaying equipment information and configuring functions and permissions.



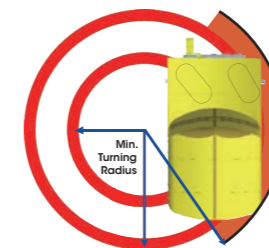
Comfortable and Durable Suspension System

The suspension system features four oil-gas adjustable suspension cylinders that reduce the impact during transportation and loading, providing a smooth and comfortable ride for the driver and extending the lifespan of the body frame. The front suspension utilizes a candle-type independent suspension, symmetrically aligned on both sides to ensure reliable wheel positioning and stable, comfortable driving. The rear suspension adopts a longitudinal triangular swing arm suspension, allowing the rear axle housing to swing, effectively absorbing bending and torsional stresses generated by rough road conditions.



Fully Adjustable Seat

Driver comfort is a key factor in ensuring safe and efficient production. The XDE130 is equipped with a luxurious air-suspension seat that effectively absorbs vehicle vibrations and reduces driver fatigue. The seat is fully adjustable and works in conjunction with the telescoping/tilting steering column to accommodate various driving postures, enhancing driver comfort. Accessories include armrests, seat belts, and a headrest.



Reliable and Safe Brake Control

The mature and reliable braking system ensures the vehicle's safety and efficiency during operation, enhancing the driver's confidence and allowing them to focus more on production and transport tasks. The XDE130 is equipped with high-performance dry disc hydraulic brakes on both the front and rear wheels, providing functions for service brake, loading brake, parking brake, and emergency brake. By integrating the electric drive system's electric retarder, the vehicle achieves mixed braking control, ensuring excellent braking performance at all operating speeds. The braking system is equipped with a brake accumulator. The braking system meets ISO 3450 standards.

Agile Steering

The XDE130 features a disconnected trapezoidal steering mechanism with dual-action hydraulic steering cylinders for power steering. It includes a steering accumulator for emergency control and meets ISO 5010 standards. With a turning radius of 11.5 meters, the high maneuverability ensures safe and efficient operation on winding mine roads.

04

CONVENIENT MAINTENANCE

Convenient Maintenance Access

The XDE130 is designed with a strong focus on maintainability, facilitating quick and easy servicing. Maintenance ladders are provided on both sides of the front longitudinal beams, making engine inspection and upkeep more convenient. The front of the vehicle's bumper is equipped with an engine emergency stop switch and a ladder light switch. Fuel quick-fill ports are located on both sides of the middle section of the frame, allowing maintenance personnel to operate at ground level.

Modular Design, Easy to Assemble and Disassembly

The XDE130 vehicle features a modular design, making it easy to disassemble, assemble, transport, and maintain. In particular, the frame and rear axle use bolted joint bearing seats, which facilitate disassembly and assembly, reduce downtime for maintenance, and enhance the vehicle's availability.

Centralized Filling System

The centralized fuel filling system comprises a receiver, dust cap, flange plate, and dust breather. It includes facilities for the filling and discharge of engine oil, hydraulic oil, fuel, lubricating grease, and coolant. The central filling device is located on the left side of the front frame longitudinal beam. Its operational position is close to the ground, making it easy to operate.



FUNCTION

Automatic Central Lubrication System

The XDE130 is equipped with a fully automatic centralized lubrication system that thoroughly lubricates 22 key pivot points of the vehicle's moving parts. This system saves maintenance time, improves maintenance quality, and reduces the workload of vehicle upkeep. The automatic lubrication system features pressure detection, alarm functions, and programmable control of lubrication intervals.



LCD Screen

- The instrument panel in the cab is used for installation, maintenance, and troubleshooting.
- Basic troubleshooting can be completed outside the control cabinet without the need to enter it.





XCMG MINING MACHINERY'S
COMMITMENT TO YOU

Promise To You

CUSTOMIZED SERVICES TO ACHIEVE A FULL-CYCLE, ALL-AROUND EXCLUSIVE SERVICE FOR CLIENTS—MANAGER—DELIVERY—PROJECT OPERATION & MAINTENANCE—SERVICE—BUSINESS.

XCMG forms a management team centered around client managers, solution managers, and delivery managers, working efficiently and collaboratively with deep client interaction to provide full-cycle, comprehensive services for customers.

XDE130 HAUL TRUCK

Technical Parameters

Engine

Model ①	KTA38
Standard emission	U.S.EPA Tier0
Fuel type	diesel
Number of cylinders	12
Stroke	4-stroke
Full horsepower	895kW (1200hp) @1900
Flywheel net power	810kW (1087hp) @1900
Weight (wet)	3950kg
Weight (dry)	3723kg
Model ②	16V2000C66
Standard emission	China GB20891-2014 NR3
Fuel type	Diesel
Number of cylinders	16
Stroke	4-stroke
Full horsepower	970kW (1301hp) @1800rpm
Flywheel net power	890kW (1194hp) @1800rpm
Weight (wet)	3350kg
Weight (dry)	3600kg
Model ③	QSK38
Standard emission	China GB20891-2014 NR3
Fuel type	Diesel
Number of cylinders	12
Stroke	4
Full horsepower	1007KW (1350hp) @1800rpm
Flywheel net power	890KW (1260hp) @1800rpm
Weight (wet)	4842kg
Weight (dry)	4510kg

*Total horsepower refers to the output power of the engine installed on the machine. The engine speed is controlled, and the fuel settings are approved by the engine manufacturer. Accessory losses include those from the water pump, fuel pump, and oil pump.

**Flywheel net power is the rated power of the engine flywheel minus the average accessory losses. Accessories include the fan and charging alternator. The specifications comply with SAE J1349 and ISO 3046 standards.

Electric Drive System

AC/DC current	/
Alternator	XCMG-A865
Single-blade inline blower	178.8 m ³ /min
Control	Ac frequency conversion control system
Electric wheel*	XCMG-M360
Speed ratio	33.85:1
Speed (max.)	50km/h

Tires and Rims

Tubeless, radial tires, standard tires	30.00R51
Flange-mounted, five-piece rims	22.00/4.5
Total tire weight	10620kg
*Tires should meet specifications for tkph/tmph, tread, rubber composition, inflation pressure, cord layer rating, or equivalents.	

Cab

The cab meets ISO 3471/ISO 3449 (Level II) standards for ROPS/FOPS with a spacious interior and excellent visibility. It is fully equipped with various displays, gauges, alarms, lighting, control switches, and a radio. The operator seat is a fully adjustable air-suspended seat with a tall backrest, complemented by a front passenger seat. It is equipped with an onboard computer, electric windows, a tilt-and-telescopic steering wheel, electric windshield wipers and washers, tinted glass, and air conditioning with heating and cooling functions. Vehicle operation data and fault alerts are displayed using an LCD screen and controllable gauges.

Suspension

Variable-rate hydraulic and pneumatic, overall rebound control	/
Maximum stroke of front suspension	320mm
Maximum stroke of rear suspension	310mm
Maximum vibration amplitude of rear axle	±6.5°

Frame

Advanced technology: The frame is an integrated box-type structure consisting of a pair of longitudinal beams and five cross beams, with key stress transition areas using cast components and a robust continuous gantry beam.

Plate material	670MPa low alloy high strength steel
Casting material	630MPa low alloy high strength steel
Longitudinal beam width	200mm
Longitudinal beam depth (minimum)	280mm
Top and bottom	25mm
Side plate thickness	16mm
Drive axle installation	The pin is hinged with the joint bearing
Drive axle positioning	Rear frame tie rod

Dump Body

High-strength body bottom plates and side plates are used, providing a robust structure and long service life. The bottom plate features a single-slope design for clean unloading and is equipped with safety rope supports, body cushioning pads, and stone discharge devices.

Bottom plate	thickness 20mm
Front plate	thickness 12mm
Side plate	thickness 12mm
Guard plate	thickness 6mm
Struck capacity	59m ³
Heaped capacity (SAE2:1)	73m ³
Standard XCMG body weight	16000kg

Electrical System

6×975 CCA, 12V batteries, in series/parallel, mounted on the bumper, with a disconnect switch.	
Alternator	24V/175A
Lighting equipment	24V
Starting motor	2/24V

Hydraulic System

Steering	The accumulator assists the dual steering cylinders to provide stable and reliable steering, and the auxiliary steering system is automatically provided by the accumulator.
Turning diameter (SAE)	23m
Hydraulic oil tank	650L
	Oil filter 250μm
Filter	Oil return filter 12μm Lift and turn high pressure filter 12μm
Hoisting	Two one-stage double acting, two-stage
Hoisting time	single acting hydraulic cylinders
Hoisting (load)	17S
Lowering (high idle)	22S
Lowering (low idle)	25S
Pump	Dual pump direct drive Series gear pump
Hoisting and cooling	342L/min 1900rpm
Steering and braking	342L/min 1900rpm
System overflow pressure	
Hoisting and cooling	17000KPa 2465psi
Steering and braking	23000KPa 3335psi
The port can be used to power faulty trucks and for system diagnostics.	

Brake System

Service brake	Front wheel hydraulic drive dry disc brake 2 for each side Rear wheel hydraulic drive dry disc brake 1 for each side
Traction system	Wheel non-slip control
Maximum braking pressure	Front wheel 150bar Rear wheel 100bar
Diameter of each brake	Front brake disc 1020mm Rear brake disc 600mm
Automatic application system	Automatically put in before the brake system pressure drops to meet the required limit for the auxiliary brake system
Auxiliary braking system	Dynamic retarding
Parking brake	Normally closed dry disc brake, hydraulic opening, spring lock, located in the rear wheel, one side
Electric retarder	1400kW/1877hp

Fluid Capacities

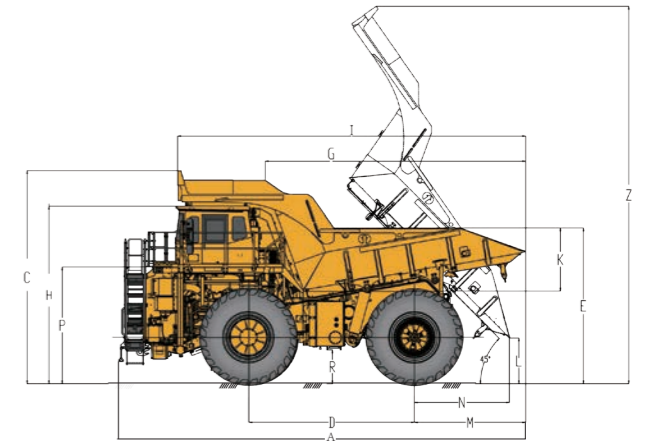
Cooling system	330L
Crankcase	129L
Hydraulic system	650L
Motor gearbox (each)	40L
Fuel tank	1200L

Cooling System

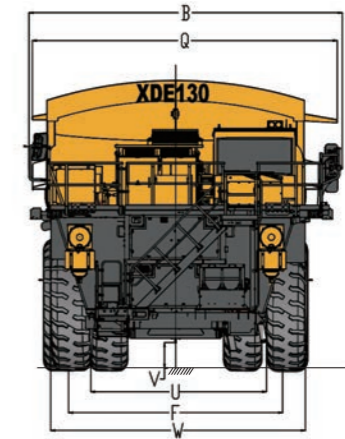
XCMG radiator assembly, replaceable cooling pipes, bypass type, with a top-mounted deaerator-type expansion tank.	
Radiator front area	3.14m ²

Loading height

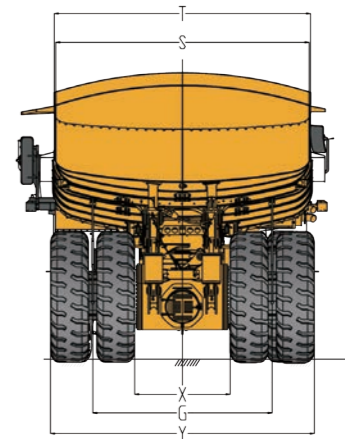
Loading height	4650mm
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C:6311	H:5257	P:3461	I:10308
G:7714	R:1002	D:4900	N:2812
M:3295	A:12000	K:2548	L:1357
E:5292	Z:11179		



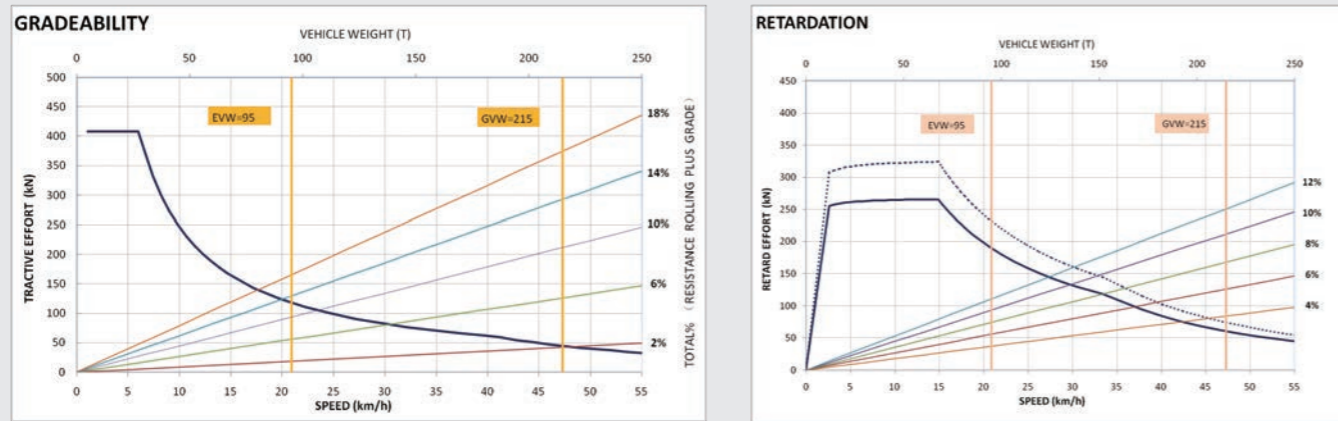
B:6854	Q:6672	V:566
U:3870	F:4685	W:5540



T:5620	S:5552	X:2092
G:3930	Y:5784	

Standard body, struck capacity 59 m³
SAE 2:1 Heaped capacity: 73 m³

Performance Curve



Unladen weight (NVW)

Front axle distribution (50%)	47512 kg	104746 lbs
Rear axle distribution (50%)	47491 kg	104700 lbs
Unladen total weight	95003 kg	209446 lbs

Gross Weight (GVW)

Front axle distribution (33%)	70954 kg	156427 lbs
Rear axle distribution (67%)	144057 kg	317591 lbs
Vehicle total weight	215011 kg	474018 lbs

Payload capacity

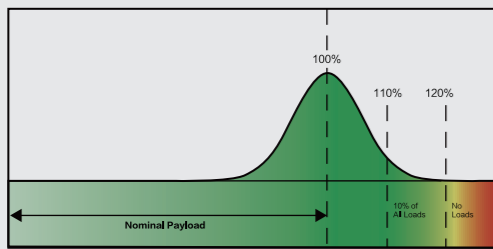
Effective payload	120000 kg	264555 lbs
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* The rated effective payload includes all optional accessories.

USE OF EQUIPMENT AND PRECAUTIONS

XCMG Mining Truck Loading Specifications

The loading specifications define the loading guidelines and restrictions for XCMG mining trucks:



- The Gross Vehicle Weight (GVW) includes the chassis, body, tyres, accessories, lubricating oil, fuel, operator, payload and excessive accumulation of materials.
 - The Empty Vehicle Weight (EVW) includes the standard chassis, standard body, tyres, accessories, lubricating oil, fuel and operator.
 - Nominal payload=GVW-EVW
 - The monthly average payload must not exceed the target payload of the truck.
 - 90% of all loads must be below 110% of the target payload of the truck.
 - 10% of all loads may be between 110% and 120% of the target payload of the truck.
 - Any single load must not exceed 120% of the target payload of the truck.
- * Rated payload includes all options.

Notes:

1. The graphics and information in this brochure reflect the technical features and configuration standards of certain models at the time. The existing information and data are based on standard usage testing. The above data and information are for reference only; please refer to the actual product.
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Standard Configuration

- Self-cleaning air filter
- Alternator (24V/175A)
- Automatic lubrication system with level indicator
- Reversing alarm
- Battery - 6 units, 975 CCA
- Battery charging/jump-start connector
- Dump body limit device
- Dump body safety rope
- Front brakes: dry disc brakes
- Rear brakes: dry disc brakes
- Electric control cabinet
- Electric retarder cruise control system
- Electric start
- Fast fuel filling system (on fuel tank and side of hydraulic oil tank)
- Hydraulic high-pressure filter
- Mirrors:
 - Left side: Flat mirror, with heating function
 - Right side: Convex mirror, with heating function
- Mudguard
- Silencer-Mounted on the deck
- Power supply-24V and 12V DC
- Quick connectors (hoisting and diagnostics)
- Radiator fluid level indicator
- Removable powertrain (engine, alternator)
- Reversing brakes
- Fan clutch

Operating Environment and Controls

- Fully hydraulic service brakes with automatic engagement feature
- Power switch
- Brake and traction interlock
- 24V Circuit breaker
- Access ramp through grille
- Dynamic deceleration
- Engine emergency stop button-ground level
- Hoisting and traction interlock device
- Horn (electric-front)
- Integrated ROPS/FOPS (standard II) cab
- Parking brake with warning light and speed application protection
- Power steering system with automatic assist
- Deck protection handrails
- Propeller shaft protective cover
- Radiator fan guard
- Seatbelt: Standard three-point type
- Anti-slip walkway
- Engine maintenance platforms: Left side / Right side

Lighting Equipment

- 2 reversing lights: Mounted at the rear (LED)
- 2 reversing lights: Mounted on the left and right sides of the deck (LED)
- Brake and deceleration lights: On the top of the cab (LED)
- Clearance lights: (LED)
- 2 Dynamic deceleration lights: At the rear (LED)
- Engine compartment inspection light (LED)
- Axle inspection light (LED)
- 2 fog Lights (LED)
- 4 headlights (LED)
- Stair and platform lights (LED)
- 4 rear brake and deceleration lights (LED)
- Turn signals (LED)

Standard High-Visibility Luxury Cab

- AC drive interface display screen
- Air conditioning - R-134A
- AM/FM radio with USB and MP3
- Turbocharger clogging alarm
- Roof lamp
- Multifunction driver display panel
 - Light status
 - Engine hours, oil pressure, coolant temperature, oil temperature, fuel level

Standard High-Visibility Luxury Cab

- Multifunction driver display panel
 - Mileage, vehicle speed, load
 - Ambient temperature, time
 - System voltage
 - Engine red light, yellow light alarms
 - Low system voltage
 - Low engine water level
 - Gear position indicator
 - Excitation indicator
 - Parking brake indicator, service brake indicator, electric brake indicator, load brake indicator
- Engine delay shutdown
- Floor mat (dual-layer panel)
- Cab fuel gauge
- Low fuel level warning light and buzzer
- Instruments (backlit)
- Front working lamp switch
- Heater and defroster (heavy-duty)
- Heater switch
- High beam selector and indicator
- Horn (steering wheel center)
- Weighing system display
- Operator seat: Adjustable, with air suspension, lumbar support, and armrests
- Panel lighting (adjustable)
- Passenger seat
- Electric windows
- Positive pressure Operator cab
- Electric retarder brake pedal
- Hydraulic brake pedal
- Sun visor (adjustable)
- Telescoping/Adjustable tilt steering column
- Voltmeter (battery output)
- Windshield (tinted safety glass)
- Windshield wipers (dual) and wiper washer (electric)

Optional Equipment

- Note: Optional equipment may alter the operating weight.
- 1000L/min fast fuel filling system (on fuel tank and side of hydraulic oil tank)
 - Power switch lock
 - Customized dump body
 - Dump body heating
 - Dump body anti-wear plate
 - Rick drill rod/Rock drill chain
 - Rearview mirror anti-smash component
 - Hydraulic ladder
 - Electric heater (for engine coolant, hydraulic oil, fuel)
 - Fluid fuel heater (for engine coolant)
 - Fire extinguisher
 - Automatic fire extinguisher
 - Centralized filling-right side (for coolant, engine oil, hydraulic oil, grease)
 - XCMG-360° panoramic imaging system
 - Weighing display-right and left side
 - Wheel chock
 - Cab tool box
 - 33.00R51 tire and rim assembly
 - Operator behaviour monitoring system
 - Tire temperature monitoring system
 - Tire pressure monitoring system

*The body provided by XCMG is mandatory. It is recommended to use body designed and locally manufactured by XCMG. Not applicable to third-party organizations.