

XC975EV

ELECTRIC WHEEL LOADER

 **SOLID TO SUCCEED**



Operating Weight	22800±300 kg
Engine Rated Power	240 kW
Rated Load	7000 kg
Bucket Capacity	4.5 m ³

XC975EV ELECTRIC WHEEL LOADER

XC975-EV electric wheel loader is XCMG's new 7-ton pure electric loader, featuring XCMG's self-developed control system, which greatly enhances control performance. The innovative dual-motor drive system without a gearbox optimizes power matching, resulting in greater torque output and faster response time, which significantly improves work efficiency. It features the LFP battery and supports dual gun fast charging.



Advanced Technology

- XCMG-developed reinforced axle
- Z-bar six-linkage structure



Comfortable Design

- Pressurized cab
- High-performance damping double-slide seat



Convenient Operation

- FNR joystick for gear shifting
- Dual pump confluence quantitative hydraulic system
- One-touch button to increase hydraulic motor speed



Easy Maintenance

- Electric back-flip hood
- Centralized layout
- Two-stage dustproof structure for hinge point



High Efficiency

- LFP battery
- Dual gun EV fast charger
- Tandem dual-motor travel drive technology



Safety and Reliability

- BMS smart control
- Location pin for axle
- ROPS&FOPS cab
- Dual emergency stop
- Full hydraulic brake system

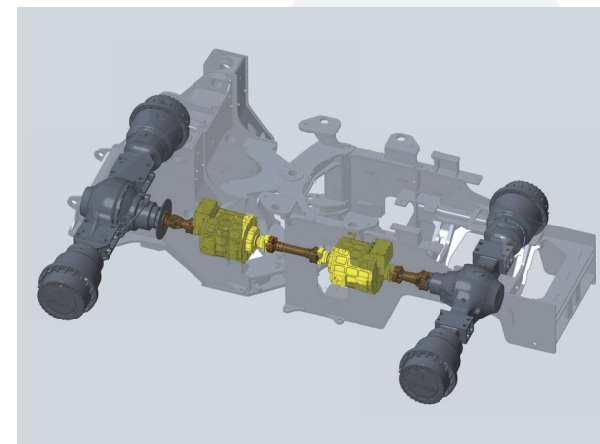


| EFFICIENCY



Electrifying Power Unparalleled Performance

XC975 electric loader features innovative tandem dual-motor travel drive technology without a gearbox, which optimizes power matching for increased torque output and faster response speeds, enabling stepless speed changes without the impact of shifting, making it well-suited for operations in heavy-duty conditions, such as mines and gravel quarries.



- Utilizing tandem dual-motor travel drive technology, the system features two motors that drive the front and rear axles separately, ensuring optimal performance in every working condition.
- The motor adjusts the rotational speed in real time according to the throttle opening, realizing the stepless variable speed of the whole machine.



- XCMG reinforced drive axle and optimized axle shell design improves the load-bearing capacity and bending resistance by 10%.
- The four planetary wheel structure can withstand greater load for heavy-duty working conditions.
- Additional locating pins are mounted on the drive axle to improve reliability.



- Featuring a 423 kWh LFP battery with dual-gun fast charging, the shortest charging time is just 80 minutes (with 300 kW charging station).
- Electric loaders are powered by electricity, which eliminates exhaust emissions and helps reduce air pollution, making them ideal for locations with strict environmental regulations, such as urban construction sites and indoor workplaces.



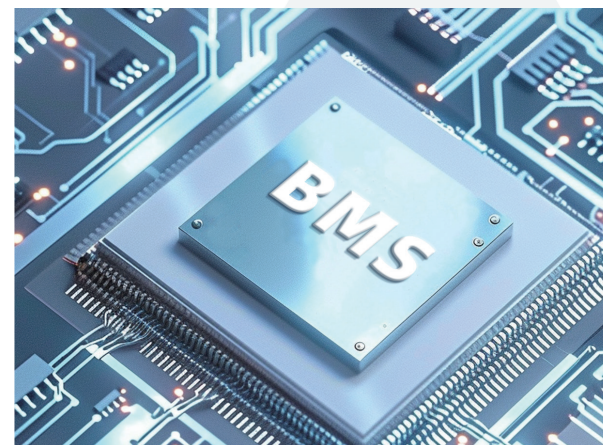
- The front and rear frames feature a heavy-duty design with thick steel plates, providing high strength and strong carrying capacity.
- The reasonable structure reduces irregular welding seams and strengthens important bearing parts, allowing the loader to withstand various working conditions involving torsion and impact loads.

| SAFETY

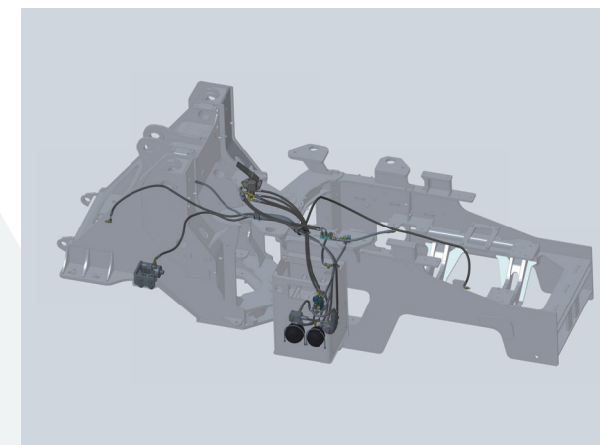


Safe Choice Reliable Outcome

XC975EV electric loader utilizes LFP battery, which provides excellent endurance and long service life. The BMS system precisely controls battery performance to optimize efficiency. Dual emergency stop switches inside and outside the cab allow for immediate stopping and ensure safety.



- Battery thermal management system is intelligently controlled by BMS, safe and reliable
- LFP batteries offer enhanced safety due to their material characteristics and can function reliably in various environments, providing loaders with reliable energy support.



- The full hydraulic braking system provides enhanced reliability, safety, and responsiveness.



- ROPS&FOPS cab is sturdy and stable, ensuring operating safety when subjected to severe impacts.
- The emergency stop button on the inside and outside of the cab for convenient stopping in an emergency.



- The increased distance between the upper and lower hinge pins disperses and reduces the stress on the hinge pins, prolonging the bearings' service life.
- Adopting finite element analysis technology reduces stress concentration, eliminates partial weakness and can handle various over-loaded conditions.

| COMFORT



Streamlined Comfort for Every Operator

The spacious cab is user-oriented and scientifically designed to ensure operational safety, reduce fatigue, and provide the operator with an optimal operating experience.



- The high-performance damping double-slide seat and multi-directional adjustable steering column meet the requirements of different operators.
- It adopts a following maneuvering box, equipped with air conditioner, radio, storage case, cup holders, cell phone charging ports, creating a comfortable and safe operating environment.



- LCD touch screen displays power, motor and controller temperature, motor speed, battery temperature, air pressure, and other parameters in real-time.
- Heating and cooling air conditioning features 360° surround airflow, equipped with an electric water valve for easy operation.



- XC975EV electric loader can be equipped with optional high boom, side boom, clamp, buckets with different load capacity (2.5-5.0m³) and other operating attachments to meet various operating requirements.



- The FNR joystick enables easy gear shifting and features one-touch button that increases hydraulic motor speed, improving the responsiveness and efficiency of the hydraulic system.
- Flow amplification steering system ensures flexible steering.

| MAINTENANCE

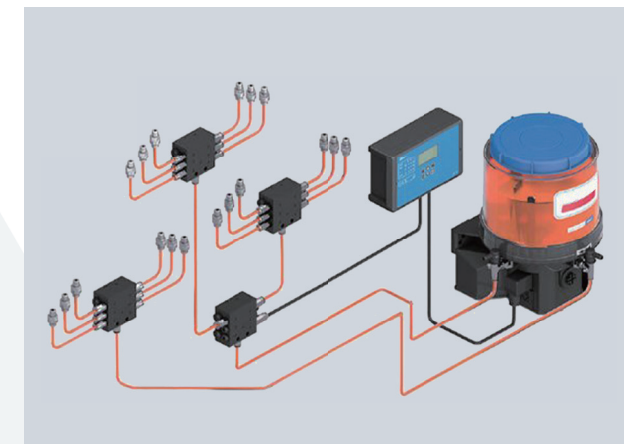


Simple Maintenance Smart Solution

The whole machine includes a maintenance platform with a centralized design of maintenance points. The electric back-flip hood can be opened at a large angle, ensuring easy access to the maintenance points and minimizing downtime.



- Electric back-flip hood with opening angle up to 65°.
- The all-in-one controller, battery BMS, water-cooler unit, battery and PDU fuse are all in convenient maintenance positions.



- The centralized lubrication system automatically greases each joint and prevents clogs at individual points.
- Brake system oil circuit features a closed design, which prevents contamination of brake hydraulic oil by external factors. This results in longer life for brake components and a lower failure rate.



- The drive system of electric loaders has a simpler design, which reduces the risk of malfunctions.



- Global coverage of marketing and service outlets ensures exceptional support.

MAIN SPECIFICATIONS

Overall Parameter	
Type	Parameter
Operating Weight	22800±300 Kg
Bucket Capacity	4.5 m³
Rated Load	7000 kg
Max. Breakout Force	195 kN
Tipping Load	Straight-16901 kg
	Fully articulated-14000 kg

EIC System		
Overall Voltage		618 V
Max. Rated Output Power		240 kW
Max. Output Power		480 kW
Max. Rated Output Torque		2000 N·m
Max. Output Torque		6400 N·m
Battery		LFP Battery
Battery Voltage		618 V
Electrical System Voltage (Low)		24 V
Low Voltage Battery Voltage		24 V
Low Voltage Battery Capacity		240 Ah
Hydraulic Motor	Amount	1
	Type	Permanent magnet synchronous motor
	Single Rated Output Power	80 kW
	Single Max. Output Power	150 kW
Travel Motor	Amount	2
	Type	Permanent magnet synchronous motor
	Single Rated Output Power	120 kW
	Single Max. Output Power	240 kW
Battery Capacity		432 kWh
Charging Time		240 kW-90 min
		320 kW-75 min

Driveline			
Travel Speed	Front	1 st	18 km/h
		2 nd	37 km/h
	Reserve	1 st	18 km/h
		2 nd	37 km/h
Tyre	26.5-25-20PR		
Min. Ground Clearance	488 mm		

Axle	
Type	Four-wheel drive
Front Axle	Fixed
Rear Axle	Oscillating frame type/with 10.5° oscillating angle to each side
Reduction gear	Planetary final drive
Differential	Conventional differential

Cab	
Cab	ROPS&FOPS cab; Equipped with front sun visor, rear-view mirror, breaker, clothes hook. Standard cooling and heating air-conditioner, damping seat, adjustable steering column and operation case provide comfortable operation. Large curved front windshield and electrically heated mirriors provide great visibility.
Heating Power	3.5 kW
Cooling Power	4.5 kW

Brake	
Service Brake	Four-wheel full hydraulic wet brake with good heat dissipation ensure safe and reliable brake.
Parking Brake	Electrically controlled hydraulic disc brake
Emergency Brake	The emergency stop button inside and outside the cab help cutdown the battery in emergency to enhance safety.

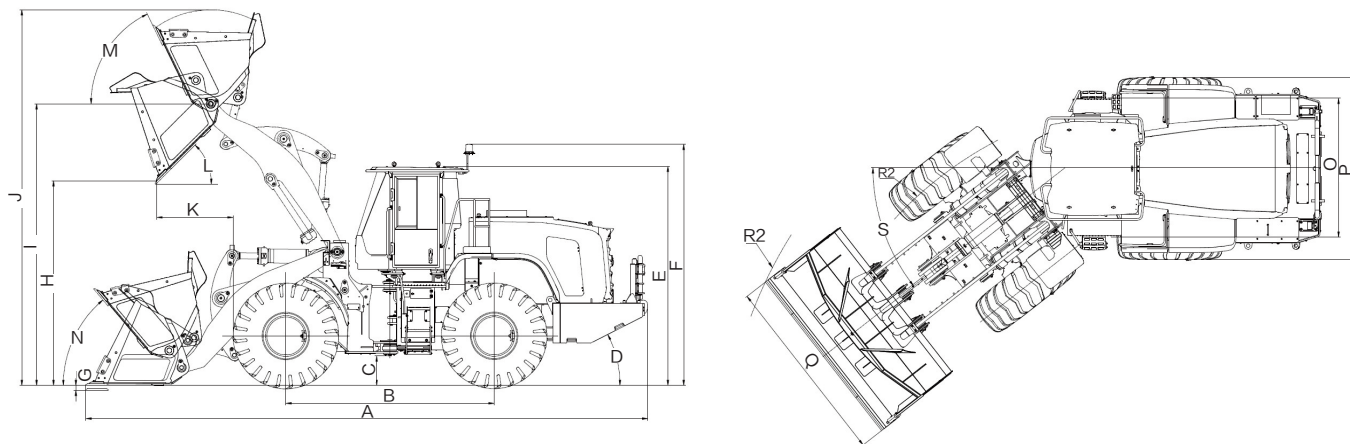
Hydraulic Working System	
Type	Constant pressure hydraulic system
Pump	Internal gear pump
Rated Flow	418 L/imin
Control Valve	Third function multiway valve
System Pressure	20.5 mpa
Operating Hydraulic Circuit	Lifting circuit for lifting, holding, lowering and staying movable status of the boom. Tipping cylinder circuit for returning, holding and tipping the bucket.
Total Circle Time	≤ 10.5 s

Steering Hydraulic System	
Type	Flow amplifier load- sensitive steering system
Pump	Internal gear pump
Rated Flow	110 L/imin
Hydraulic Cylinder	2
System Pressure	19 Mpa
Sreering Angle	38°

Sound	
Exterior Sound Power Level	95 dB
Sound Pressure Level	60 dB
• The guaranteed sound levels described below may vary depending on factors including operating conditions, cooling fan speeds, engine type, and so on. Hearing protection is required if the operator works in an improperly maintained cab or is exposed to noisy.	

Referenced Filling Capacity	
*Reference only. Filling volume is based on the actual scale.	
Item	Filling Capacity
Front Axle	55 L
Rear Axle	50 L
Coolant	50 L
Hydraulic Oil	190L

MAIN SPECIFICATIONS



	Dimension and Specification	Parameter
A	Overall Length	9300 mm
B	Wheelbase	3450 mm
C	Ground clearance	490 mm
D	Departure angle	27°
E	Height: ground to cab	3575 mm
F	Height: ground to beacon	4000 mm
G	Digging depth	50 mm
H	Dumping height	3415 mm
I	Height to hinge pin, fully raised	4670 mm
J	Max. lifting height	6370 mm
K	Dumping reach	1267 mm
L	Dumping angle	45°
M	Rollback angle: high	64°
N	Rollback angle (transfer)	43°
O	Wheel track	2320 mm
P	Width over tyres	2990 mm
Q	Width: bucket	3100 mm
R1	Turning radius: tyre centerline	6115 mm
R2	Turning radius: over bucket	7200 mm
S	Steering angle	38°

- The technology of XCMG electric wheel loaders is subject to constant improvement and upgrading. In case the specifications or detailed appearance contained in this brochure differ from actual products, the latter shall prevail.
- XCMG reserves the right of final interpretation for the above. Our products may be modified without prior notice to users.

EQUIPMENT

Powertrain	STD	OPT
Front axle-limited slip differential		●
26.5R25TYRE	●	
750/65R25		●
Techking tyre		●

Hydraulic System	STD	OPT
Third function quick coupler		●
Bucket lift limit	●	
Bucket auto-leveling	●	
Diagnostic pressure joint	●	
Dual brake pedals		●
Anti-explosion valve		●
Ride control	●	
Emergency steer	●	
Quick fuel filling		●

Electrical System	STD	OPT
High beams	●	
Turn signal	●	
LCD screen	●	
2 LED headlights	●	
1 LED dome light	●	
2 Rear grouped lamps (reserve, turn signal, clearance lamp, brake lights)	●	
2 Front roof working light (LED)	●	
2 Rear roof working light (LED)	●	
Main light	●	
2 LED working light on the rear hood	●	
Working light	●	
Rotating warning light	●	
Stair light		●
Battery level	●	
Speed display	●	
Gear display	●	
Overall status display	●	
Battery status display	●	
Motor status display	●	
Malfunction warning	●	
Rearview camera	●	
Air-conditioner	●	
Centralized lubrication	●	
Overall function setting	●	

Safety	STD	OPT
360° panoramic camera		●
Handheld fire extinguisher	●	
Boom safety lever	●	
Emergency steering	●	

Cab	STD	OPT
Weigh system		●
Rearview mirror heating	●	
Rear wiper	●	
ROPS&FOPS cab	●	
RESPA pressurized filter system		●
Protective cab screen		●
Raido/USB player	●	
Adjustable steering wheel	●	
Sun visor (front/rear)	●	
Clothes hook		●
Magazine bag	●	
Left/right armrest	●	
Retractable safety belt	●	
Tinted safety glass	●	
24V to 12V DC converter (10A)	●	
Air-suspended seat	●	
Cab lock/key	●	
Single brake pedal	●	
Dual brake pedals		●
Start-up	●	
FNR gear	●	
Cooling and heating air-conditioner	●	
Cup holder	●	

Bucket	STD	OPT
4.5m³ reinforced bucket	●	
4.0m³ reinforced bucket		●
5.0m³ light material bucket		●
5.5m³ light material bucket		●

Attachement	STD	OPT
Blade bucket		●
Tooth bucket		●
Clamping piler	●	
Standard boom		●
High lift boom (hinge pin 4670mm)	●	
High lift boom (hinge pin 4873mm)		●

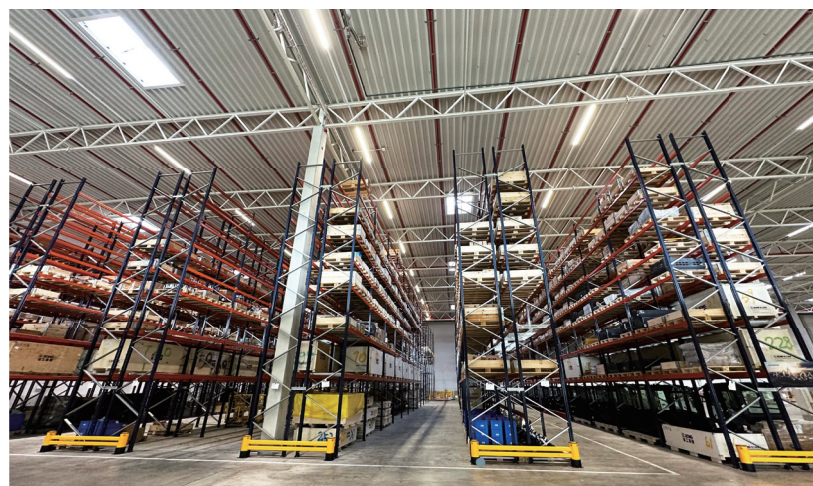
Other	STD	OPT
Traction pin	●	
Handrail/ladder/ platform/pedal	●	
Splash guard (front/rear)	●	
Chassis guard	●	
Anti-corrosion spray	●	
Toolkit	●	
Reversible fan	●	
Single ine auto-lubrication system		●
Progressive auto-lubrication system	●	

OPTIMUM SERVICES XCMG GUARANTEED



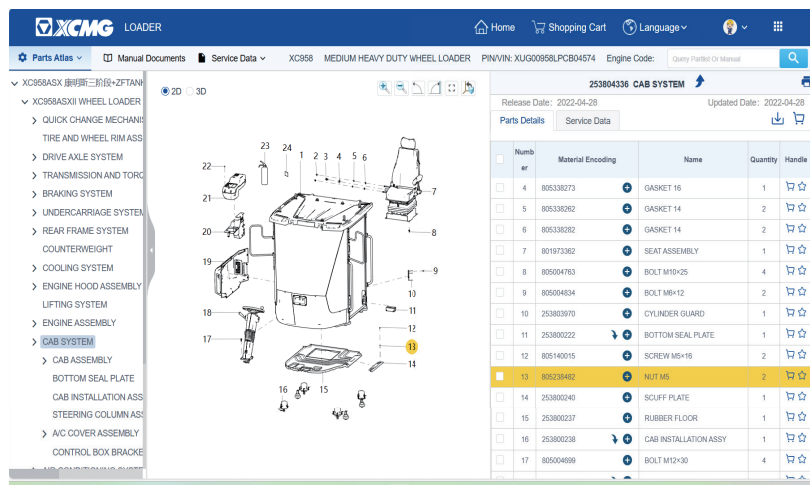
Telematic information Processing

Remote Diagnosis. GPS terminal system monitors the construction state of the machine and the operating.



Professional Integrated Complete Solutions

XCMG has built a strong reputation based on the quality, reliability and durability of its construction machinery. What's more, XCMG has gradually established a service network to constantly provide its local integrated and highly efficient complete solutions for all customers.



Full Range of Services Ready for you

In order to respond to your needs as fast as possible, XCMG's experts are on their way to your job site from one of our facilities near you. Full range of services are available in order to reduce your total cost of ownership and increase your revenue.



Plateau Construction



Forestry Construction



Animal Husbandry



Road Construction



Stone Mining



Extreme Cold Working Condition



Mine Engineering



Grain Shoveling

INTRODUCTION

Our Mission and Vision: Empower Solid Future.

Founded in 1943, XCMG is a multinational corporation with the most comprehensive range of competitive, influential products in the construction machinery industry. Our mission is to Empower Solid Future by providing complete sets of engineering equipment and solutions for global customers. It is the enterprise with the most complete categories and complete sets in the world's construction machinery industry. As of now, XCMG has retained its No.1 position in China's construction machinery industry for 35 consecutive years and is ranked NO.3 in the global construction machinery industry. Today, we sell products in over 190 countries and regions worldwide. We drive enterprises to smart, sustainable, and efficient solutions through technological innovation and excellent management solutions.

XCMG Earthmoving Machinery Business Division is a core machinery R&D and manufacturing enterprise under XCMG, specializing in the research and development, manufacturing, and sales services of a full range of loaders from 0.4 to 35 tons, including new energy loaders, skid-steer loaders, and backhoe loaders. It is the first enterprise in China and the third globally to possess the production capacity of loaders with a loading capacity exceeding 35 tons. For 35 consecutive years, it has maintained its position as the top loader exporter in China. XCMG Earthmoving Machinery Business Division has always adhered to the core values of "Responsibility, Virtue, and Fortitude." XCMG perseveres through challenges and forges ahead with determination!

1943

TOP 3

TOP 3 Global Construction Industry

2000

More than 2000 Service Terminals

8500

More than 8500 Valid Patents

40

More than \$4 Billion Annual Exports

