



Electric Loader

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**CAMC VIAL**

DIRECCION: RUTA 40, CALLE 7 - SAN JUAN,  
ARGENTINA TEL: +54 - 2644998650

EMAIL: [info@camcvial.com.ar](mailto:info@camcvial.com.ar)

SITE: <http://www.camcvial.com.ar>

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# XC938-EV



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## Power system

- Walking motor: Based on single-motor walking drive technology, the entire walking system is driven by a single motor connected to the drive axle through a transmission shaft, optimizing the power matching and enabling the machine to achieve greater torque output and faster response speed. The motor adjusts its speed in real-time based on throttle position, realizing the stepless speed change of the entire machine.
- Drive axle: DA1130/DA2130 dry-type drive axle independently developed by XCMG, which is featured by simple maintenance, proved durability in the market, long service life, strong engineering machinery transmission shaft, high impact resistance, and high power transmission reliability;



## Hydraulic system

- Single-pump split-flow fixed-displacement hydraulic system with fully pilot-controlled steering and working devices, which can ensure precise and simple operation. Its one-touch button for increasing hydraulic motor speed enhances the responsiveness of the hydraulic system and improves the operational efficiency. Flow amplifying steering system makes the steering more simple and flexible. The sealing method based on the international standard effectively resolves the leakage issues.



## Electrical system

- The entire machine is equipped with a 181kW·h lithium iron phosphate battery, supporting dual-gun fast charging, with a minimum charging time of just 45 minutes (with a 240kW charging station). The battery thermal management system is intelligently controlled by BMS, ensuring safety and reliability. Its LCD monitor can provide real-time information on battery level, motor and controller temperatures, motor speed, battery temperature, air pressure, and other parameters.
- Be equipped with fully sealed connectors to improve the dust and water resistance, and configured with integrated enclosed fuse boxes to ensure easy and efficient inspection and maintenance.



## Cab and steering system

- XCMG's innovative FPRS&ROPS micro-pressurized cab feature spacious, bright and enclosed space with fully-covered aesthetic interior. The silicone shock absorber is connected to the frame, which greatly reduces the vibration of the cab. The airbag shock-absorbing seat with composite control can improve the riding comfort; and the high-power air conditioner designed with heating and cooling modes supports intelligent temperature control to provide the operator with a suitable temperature all the time.



## Frame

- The front and rear frames are designed for exceptional overload, with thickened, high-strength and high load-bearing steel plates. Reasonable layout, and simple structure reduce the occurrence of pressure and irregular weld seams, reinforce critical load-bearing areas, and can withstand torsional forces and impact loads in various operating conditions.
- All key structural components undergo finite element analysis to reduce stress concentration, eliminate local weaknesses, and ensure suitability for various adverse operating conditions.
- The distance between the upper and lower hinge pins at the hinge center has been increased to distribute forces at the hinge point, reducing the stress on the hinge pins and extending the bearing's service life.
- Front frame designed with excellent rigidity, providing a solid mounting base for the boom and oil cylinder, which can absorb higher torsion, impact and loading operation force.



## Operating unit and bucket

- Optimized operating tools designed with Z-type reverse six-linkage structure integrated with single rocker arm, short tie rod and horizontal boom cylinder, featuring superior operating performance and efficiency.
- Automatic bucket leveling at any position, eliminating the trouble of adjusting the bucket when carrying out the excavation cycle again, and simplifying the driver's operation.
- The dust-proof lubrication structure is adopted for main pivot points to prevent grease from dust and contamination, and provide reliable protection for hinge pins and bushings.
- The main wear-prone parts of the bucket are made of wear-resistant plates, ensuring a long service life for the bucket.



## Brake system

- The vehicle is equipped with fully-hydraulic wet service brake and caliper-disc parking brake, featuring low pressure alarm protection, and combining emergency brake and parking brake into one unit to ensure safe driving. High-performance brake components can improve the reliability of the brake system; and the multi-disc wet brake is designed with fully-enclosed structure, which can effectively prevent dirt from entering, reduce wear and minimize maintenance efforts. The service brake is integrated with the brake pedal stroke control technology, ensuring application of the braking force proportional to the stroke of the pedal, and also featuring the function of cutting off the transmission power.



## Versatility

- XC938-EV electric loader can be equipped with a range of options, including 1.8-3.0 m<sup>3</sup> bucket series, clamps, grasping grass machine, frog-shaped pliers, lifting devices, snow plows, and quick-change tools.

## Key technical performance

Item		Unit	Parameter
Main parameters	Rated bucket capacity	m <sup>3</sup>	2.1
	Rated load	kg	3500
Travel motor	Rated power	kW	120
Hydraulic motor	Rated power	kW	36
Battery pack	Total capacity	kW·h	181
	Voltage level	V	521
	Brand	/	CATL
Durability	General condition	h	4-5
	Heavy-duty condition	h	3-4
Main performance	Operating weight	kg	11650±200
	Tipping load (full-steering)	kg	≥7500
	Dumping height	mm	3120
	Dumping range	mm	1070
	Wheel base	mm	2900
	Wheel track	mm	1850
	Max tractive force	kN	95±5
	Max breakout force	kN	105±5
	Turning radius (tire center)	mm	5100
	Passing radius (outside the bucket)	mm	6055
	Boom lifting time	s	≤5
	Total cycle time	s	≤9
	Max gradeability	°	28
	Steering angle	°	38±1
	Min ground clearance	mm	≥365
	At the driver's ear	dB(A)	≤70
	Radiation noise	dB(A)	≤95
Travel speed	Forward Gear I/II	km/h	17/35
	Reverse Gear I/II	km/h	17/35
Dimensions	Overall length	mm	7600
	Overall height	mm	3255
	Bucket width	mm	2482

The technology of XCMG backhoe 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;

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## Professional integrated solutions

XCMG has established a strong reputation in the field of construction machinery for quality, reliability, and durability. Furthermore, XCMG has gradually established a service network, continuously providing local, integrated, and efficient complete solutions to its vast customer base.

## Offer a full lifecycle of services

To meet your needs as quickly as possible, XCMG experts are on their way from nearby factories to your construction site. Comprehensive services can reduce your operating costs and increase your incomes.



## XCMG Group global spare parts system

