

SOLID TO SUCCEED

XC988-EV

WHEEL LOADER



**XCMG EARTHMOVING MACHINERY
BUSINESS DIVISION**

CUSTOMER SERVICE
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1. Scan the QR code to follow "XCMG Loading Machinery"
2. Click the "LoaderKing" in the lower left corner to obtain
more product details after registration



About XCMG

As a 100 billion-level leading company renowned for the largest scale, the most advanced technology, the largest export volume, and the highest competitiveness and influence in China's construction machinery industry, Xuzhou Construction Machinery Group Co., Ltd. (XCMG) not only has dominated the Chinese market for decades, but also is committed to expanding its worldwide presence as the third largest supplier in this field and 395th of Global 500.

The product portfolio offered by XCMG covers 16 categories such as hoisting machinery, excavation machinery, concrete machinery, mining machinery, earthmoving machinery, and road construction machinery, as well as three key components, i.e., hydraulic systems, transmission systems and electrical control systems. In these areas, our hoisting machinery ranks first in the world, and our complete solutions for road construction and maintenance machinery, piling machinery and concrete machinery also take the leading position in global rankings.

XCMG has been granted more than 8,000 patents in total, including more than 1,900 invention patents and more than 130 international PCT patents.

We have established our own R&D centers, manufacturing plants or KD factories in more than 10 countries, e.g., Germany, USA, Brazil and India, and have acquired 3 European companies including Schwing from Germany.

The manufacturing factory in Brazilian, which is built on a barren land with an investment of USD 350 million, has become a successful model of China-Brazil economic cooperation. At present, our products are exported to 187 countries and regions, covering 97% of the countries along the "Belt and Road". XCMG takes the largest share of the business exported to 35 countries, with the annual export volume and overseas revenue remaining in first place and outperforming all other competitors in China.

Main features



Power system

- Travel motor: Adopting the walking drive technology of series dual motors, the walking system of the whole machine uses two motors to drive the front and rear drive axles respectively. The two motors are connected by a transmission shaft, and the power of the two motors is coupled and transmitted to meet the needs of all working conditions. The whole machine is equipped with FNR front and rear shifting operation function, making shifting quick and easy. The motor adjusts the speed in real time according to the throttle opening to achieve infinite speed change of the entire machine.
- Drive axle: XCMG's self-made reinforced 9-ton drive axle is used. The axle shell is optimized and the cross-section of the shell is enlarged. The load-bearing capacity and bending resistance are increased by 10%. The wheel edge adopts a four-planet wheel structure, which carries a uniform load, can withstand greater loads, and is more suitable for heavy-load conditions. Positioning pins are added to the drive axle installation to share the impact load on the bolts and improve the reliability of the bolts. It adopts three-section heavy-duty transmission shaft, leading in reliability. Using 26.5-25 tires, the whole machine has good stability, good off-road performance and passing performance, and is suitable for driving and working on rough roads.



Hydraulic system

- The hydraulic system is equipped as standard with the third-generation fixed-variable hydraulic system with XCMG's self-developed load-sensitive pressure compensation technology, which improves the operating capacity and efficiency of the entire machine under complex working conditions, saves engine power, and saves more than 5% of energy compared with the second-generation fixed-variable technology. It is a pioneer. The handle integrates FNR shifting function for easy control. The new high-mounted hydraulic oil tank and filter system improve the cleanliness and circulation efficiency of hydraulic oil. The steering limit adopts dual methods of hydraulic flexibility and mechanical rigidity, with flexibility first and then rigidity to reduce impact. Intelligent temperature control independent cooling system, fan with reverse self-cleaning function.



Electrical System

- The whole machine is equipped with a 525kWh lithium iron phosphate battery, which supports dual-gun fast charging. The minimum charging time is only 120 minutes (equipped with a 300kW charging pile). The battery thermal management system is intelligently controlled by BMS, which is safe and reliable. Equipped with an LCD touch screen, it can display parameters such as power, motor and controller temperature, motor speed, battery temperature, air pressure, etc. in real time.
- The use of fully sealed connectors significantly improves dustproof and waterproof performance; equipped with an integrated closed fuse box, inspection and maintenance are more convenient and efficient.



Cabin and control system

- The anti-rollover and anti-falling object cab greatly improves safety. It adopts micro-pressurization technology, has a spacious interior and a wide field of vision. The high-performance shock-absorbing dual-slide seat and multi-directional adjustable steering column can meet the requirements of different drivers. ; It adopts a follow-up control box, equipped with heating and cooling air conditioners, radios, storage compartments, cup holders, mobile phone charging ports, etc., and is noise-reducing, dust-proof, and heat-insulated to create a comfortable, healthy, and safe driving environment.

Main features



Frame

- The front and rear frames are heavy-duty and super strong, with thick steel plates, high strength and strong load-bearing capacity. The layout is reasonable and the structure is simple, reducing protrusions and irregular welds, strengthening important load-bearing parts, and able to withstand torsion and impact loads under various working conditions. Finite element analysis is used for key structural parts to reduce stress concentration and eliminate local weaknesses to ensure that they can meet various harsh working conditions.
- The distance between the upper and lower hinge pins in the hinge center is increased to disperse the force at the hinge, which can reduce the stress on the hinge pins and increase the service life of the bearings. Double tapered roller bearings are used at the lower hinge pin, which increases the load-bearing capacity and improves driving stability.
- The front frame has good rigidity and provides a solid mounting base for the boom and cylinder, which can absorb strong torque, impact force and loading operation force.



Working equipment and buckets

- The working device is optimally designed and adopts a Z-shaped inverted six-link structure with a single rocker arm, short tie rod, and horizontal boom cylinder. It has small unloading impact and has excellent operating performance and efficiency.
- The main hinge points adopt a two-stage dust-proof structure, which can effectively prevent dust and protect the grease from contamination, providing reliable protection for the hinge pin and bushing.
- The main parts of the bucket that are prone to wear are made of wear-resistant plates, so the bucket has a long service life.
- The pin lubrication method adopts oil injection from the flange, eliminating the pin lubricating oil hole, and improving the strength of the pin.



Braking System

- The service brake adopts a fully hydraulic wet brake. The brake is a fully enclosed structure, which prevents the intrusion of mud, water and other impurities, and the braking is stable; the oil circulates for heat dissipation and has good heat dissipation performance, reducing maintenance and extending the service life.



Repairability

- It adopts an electric flip-up hood with an opening angle of up to 65°. After the hood is opened, the all-in-one controller, battery BMS, water-cooling unit, battery, PDU fuse, etc. are all in a convenient position for maintenance.



Versatility

- The XC988-EV electric loader can be equipped with high unloaders, clamps, buckets with different bucket capacities from 3.5 to 6.0m³ and different work tools to meet different operating needs.

Main Specifications

OPTIMUM SERVICES XCMG GUARANTEED



Main components

Item		Unit	Parameter
Main parameters	Rated bucket capacity	m ³	4.5
	Rated load capacity	kg	8500
Travel motor	Rated power	kW	220
Hydraulic motor	Rated power	kW	150
Battery	Total power	kWh	525
	Voltage platform	V	580
Battery life	General working conditions	h	6-8
	Heavy load conditions	h	5-6
Main performance	Overall machine working quality	kg	28600±10%
	Tipping load (full steering)	kg	≥16000
	Unloading height	mm	3510
	Unloading distance	mm	1085
	Thread	mm	3650
	Wheelbase	mm	2400
	Maximum breakout force	kN	240±5
	Tire center (turning radius)	mm	6215
	Boom lifting time	s	≤5.9
	Total cycle time	s	≤10.6
Noise	Maximum grade	°	27
	Steering angle	°	40±1
Noise	Noise in driver's ears	dB(A)	≤75
	Radiated noise	dB(A)	≤105
Driving speed	Forward I/II gear	km/h	18/35
	Reverse I/II gear	km/h	18/35
Overall dimension	length	mm	9285
	Height	mm	3670
	Width	mm	3230



XCMG approved attachments



Genuine parts



Financial solutions



Maintenance contract



Telematics

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.



XCMG Global Spare Parts System

