

SOLID TO SUCCEED

XC938-EV



Electric Loader

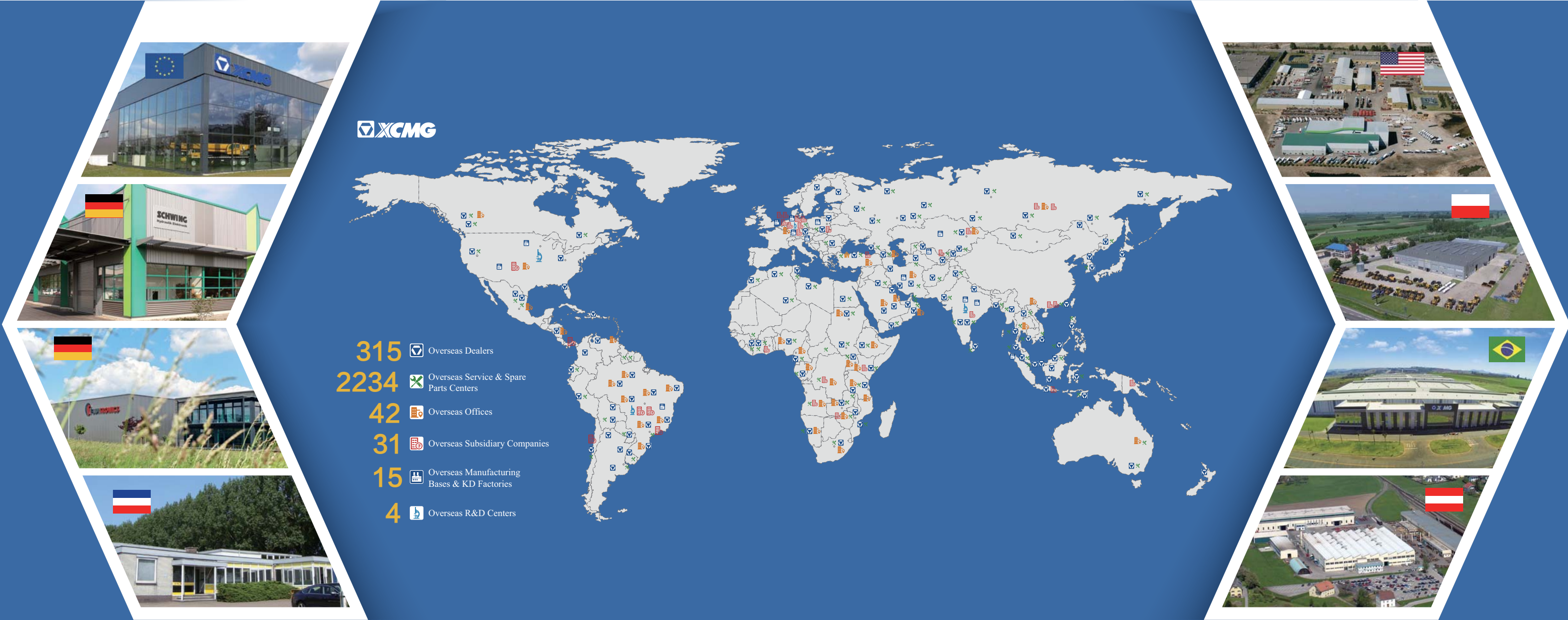


UNITED HEAVY EQUIPMENT & EARTH MOVERS PVT. LTD.

VOITH Complex | Ananda Nagar, Dhumbrahi, Nepal
Tel.: +977 01 4542901-05, Cell : +977 98512 17690
Fax : +977 01 4008813, P.O. Box: 233/2640
Email: info@uheem.com.np, Web: www.uheem.com.np



Scan the QR code to follow us on WeChat, WhatsApp, Facebook, and other social media platforms. For more information, please contact us at the address above.



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.



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.



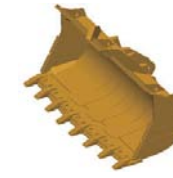
Versatility

- XC938-EV electric loader can be equipped with a range of options, including 1.8-3.0 m³ bucket series, clamps, grasping grass machine, frog-shaped pliers, lifting devices, snow plows, and quick-change tools.

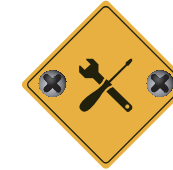
Key technical performance

| Item | | Unit | Parameter |
|------------------|-------------------------------------|----------------|-----------|
| Main parameters | Rated bucket capacity | m ³ | 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 |
| Noise level | 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;
- XCMG reserves the right of final interpretation for the above. Our products may be modified without prior notice to users.



XCMG Certified Machinery



Genuine Original Parts



Financial Policies



Maintenance Contracts



Remote Information Processing

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

