



XC968-EV

Electric Loader



Rated load 6000/6500kg

Rated power 280/320kW

Bucket Capacity 2.5-6.0m³



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Main Features

The XC968-EV is a flagship model of XCMG's third-generation pure electric loaders, adopting the industry-first three-motor technical solution with no gearbox equipped on the whole machine. Leveraging XCMG's proprietary core intelligent power matching and optimization technology, it realizes integrated intelligent control over the power, rotational speed, torque and other parameters of the vehicle motors. Combined with an intelligent thermal management system, energy recovery system, three-level fault safety protection and other functional designs, it enables intelligent, high-efficiency and safe operation of the whole machine. It can work stably in ambient temperatures ranging from -40°C to 50°C, and is widely applied in working conditions such as steel plants, power plants, coking plants, coal chemical plants, coal yards, sand and aggregate yards, and tunnel construction.

Green Pure Electric Drive, Better Environmental Protection & Emission Reduction



1. Replacing fuel with electricity: the vehicle traveling system and hydraulic system are independently driven by respective motors. Featuring pure electric power, zero emission and pollution-free operation; meanwhile, maintenance costs related to diesel engine filters (air filter, oil filter, fuel filter, etc.) can be eliminated.
2. Its average energy consumption cost is only around one quarter of that of diesel engines, greatly cutting energy expenditure.
3. Each electric loader can reduce CO₂ emissions by more than 150 tons per year, lowering carbon footprint for greener and more eco-friendly operation.



Intelligent & Powerful Power, High-efficiency & Energy-saving Operation



1. The traveling system adopts an industry-original series dual-motor drive technology with intelligent coupling power transmission, delivering smarter and stronger power output.
2. It is the first solution in the industry without gearbox, reducing fault rate and eliminating maintenance & service costs for gearbox, more reliable and cost-saving.
3. The machine is standard-equipped with FNR handle function. It can adjust motor rotating speed in real time according to accelerator opening to realize stepless speed regulation for higher working efficiency.
4. By detecting brake and accelerator signals, the motor controller enables the motor to reversely charge the battery during operation, achieving better energy conservation.



High-End Platform, Comfortable, Quiet & User-Friendly



1. It is a new-generation high-end product based on XC9 series platform, designed in compliance with CE, North American and other international standards, equipped with brand-new industrial appearance styling.
2. Standardly fitted with super curved panoramic international-style cab. With ergonomic layout and streamlined shape, the cabin is spacious, transparent, quiet and comfortable for operators.
3. Designed with large hinge, large opening and mine-grade frame structural components. Adopting CAE simulation analysis, robotic welding and other intelligent design & manufacturing technologies, it meets operation demands under various ultra-heavy-load working conditions.
4. Equipped with fully rear-tilting electrically-controlled engine hood as standard, featuring large opening angle for easier maintenance and servicing.



Enjoy Extended Long Warranty, Reliable & Safe Operation with Peace of Mind



1. Key electrical components including the three-electric system adopt standardized and modular design, and are supplied by world-renowned international brands. They meet IP67 dustproof and waterproof rating for commercial and passenger vehicles. Both battery and motor come with a 5-year warranty for safe and reliable performance.
2. The system of key components is equipped with an intelligent thermal management system with electronic fans, capable of meeting diverse operation requirements for improved intelligence and efficiency.
3. The whole machine is designed with three-level fault safety protection. Users can customize low-battery charging reminder as needed. Operating status data and fault codes can be displayed on the screen; online remote diagnosis is also available for smarter and worry-free operation.



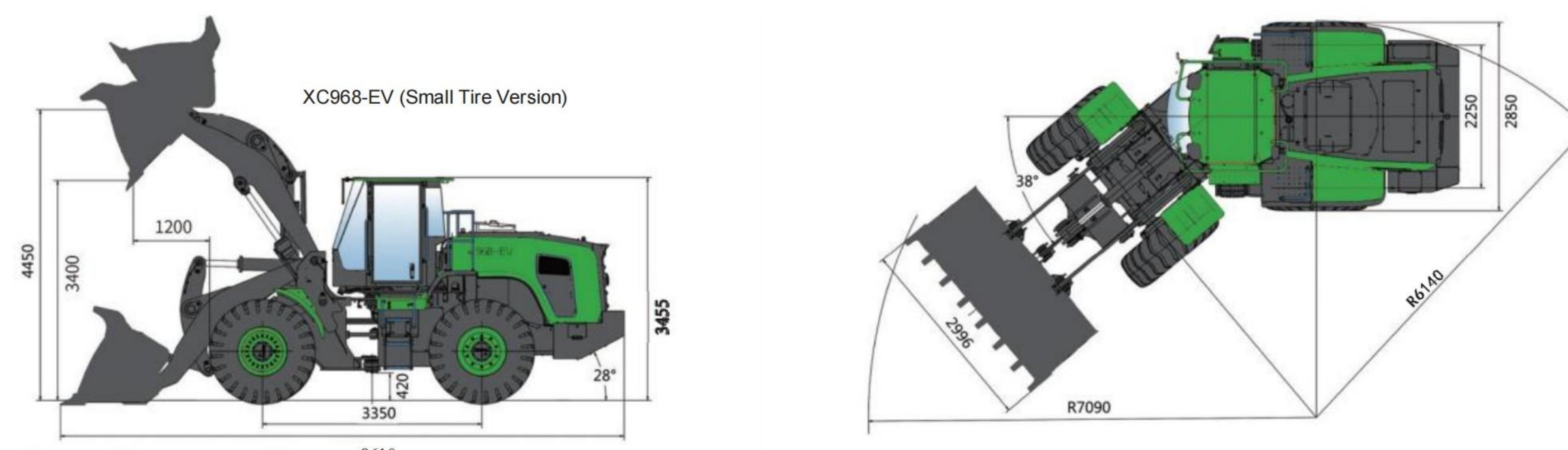
Main Configuration Parameters



Dual-Gun DC Fast Charging & Extra Long Endurance Time



1. Two charging ports are arranged on the right side of the machine, which comply with national standard requirements and support dual-gun DC fast charging. Besides, either one of the two ports can be used for single-gun charging separately.
2. Charging piles with rated power of 240kW ~ 360kW are recommended. Charging operation must be carried out in strict accordance with relevant operation specifications.
3. The endurance varies under different working conditions. On average, one hour of charging supports 6~10 hours of continuous operation.



Main Item	Rated load: 6000kg for small tires; 6500kg for large tires				
Battery Capacity (kW·h)	282 289	350	423	433	357
Rated Load Capacity (kg)	6000	6000 6500	6000 6500	6500	6000 6500
Rated Bucket Capacity (m ³)	5-6.0	2.5-6.0	2.5-6.0	2.5-6.0	2.5-6.0
Operating Weight (kg)	19100±300	19430 22000±300	20170 22600±300	22600±300	19430 22600±300
Total Rated Motor Power (kW)	280	280 320	280 320	320	280 320
Battery Brand	CATL	CATL	CATL	BYD	BYD
Dumping Clearance (mm)	3400	3400 3455	3400 3455	3455	3400 3455
Dumping Reach (mm)	1200	1200 1225	1200 1225	1225	1200 1225
Wheelbase (mm)	3350	3350 3450	3350 3450	3450	3350 3450
Track Width (mm)	2250	2250 2320	2250 2320	2320	2250 2320
Maximum Breakout Force (kN)	≥180	≥180	≥180	≥180	≥180
Total Cycle Time (s)	≤9.7	≤9.7 ≤10.6	≤9.7 ≤10.6	≤10.6	≤9.7 ≤10.6
Maximum Gradeability (°)	28±1	27 28±1	27 28±1	28±1	27 28±1
Steering Angle (°)	38±1	38±1	38±1	38±1	38±1
Forward Gear I / 轰 Speed (km/h)	18/36	18/36 18/37	18/36 18/37	18/37	18/36 18/37
Reverse Gear I / 轰 Speed (km/h)	18/36	18/36 18/37	18/36 18/37	18/37	18/36 18/37
Overall Length (mm)	8610	9020 9477	9020 9477	9477	9020 9477
Overall Width (mm)	2996	2996 3100	2996 3100	3100	2996 3100
Overall Height (mm)	3455	3505 3575	3505 3575	3575	3505 3575

- Actual cruising range varies depending on product configuration and actual working conditions.
- XCMG loader technologies are continuously optimized and upgraded. If configuration parameters, details and appearance in this brochure differ from the actual machine, the physical machine shall prevail.
- XCMG reserves the right of final interpretation for above contents, and reserves the right to modify product specifications without prior notice.
- If 423kW·h battery is selected as an option, the overall machine weight will increase by 640kg.