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# XC9350

**XCMG**  
ELECTRICAL-DRIVE  
LOADER



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BUSINESS DIVISION**

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## Product Overview

▼ XC9350 is the self-innovated four-wheel independent electrical-drive loader with operating capacity up to 40 tons, which now is the loader of the largest tonnage refreshing the record of XCMG LW1400KN in the domestic market. The independent development of critical technology makes us the leader of super-large-tonnage loaders by breaking the monopoly of international competitors. The machine is the optimal option for XCMG 110–200-ton mining trucks featuring multiple characteristics including long service life, low maintenance cost and high reliability, etc., and applicable to various conditions including large strip mines, loading by mining trucks, and short-distance transportation, etc.

## Advantages



- ▼ AC-DC-AC high-voltage electrical-drive system of high efficiency and quick response, featuring special functions of anti-slip, limp home mode, and automatic protection, etc.
- ▼ Hybrid power and energy recovery, with effective recycling of energy generated by integrated electro-hydraulic braking (EHB) to drive the wheel rim motor and minimize the abrasion of mechanical braking.
- ▼ XCMG core technology of “Intelligent electro-hydraulic proportional control system + electrical positive-flow hydraulic system + electrical load-sensing handle-steering system” to realize accurate and efficient compound actions during operations including loading, driving, and steering, etc.
- ▼ Intelligent man-machine interaction system featuring real-time, safe, easy, and fast monitoring and diagnosis of operation as well as the complete safety protection system.



## Structure parts

- ▼ The structural parts are made of cold high-strength structural steels, with high-strength casting for critical stress-bearing parts, featuring high loading capacity for torques and impacts under multiple working conditions.
- ▼ Unique working device with dual-rocker arm, with the moving arm and bucket made of high-strength and abrasion-resistant structural steels for severe conditions with variable loads.

## Drive system

- ▼ The hub reducer assembly consisted of multiple-stage planetary wheels featuring a high drive ratio and large torque.
- ▼ Maintenance-free drive shaft with high anti-torque capability and reliable transmission.
- ▼ The high reliability multi-functional combination instrument equipped accurately monitors the running status of the engine and accurately reads the malfunctions of engine and transmission via CAN bus communication technology. With sound-light alarm and indication, the LCD screen accurately displays the running status of the whole machine.



# High energy-conservation and efficiency

- ▼ Perfect matching of the engine, generator and wheel rim motor to maximize the efficiency and minimize the fuel consumption.
- ▼ AC-DC-AC electrical drive system with high efficiency, advanced control technology, and fast response, as well as more than 20% of fuel conservation, compared with other hydraulic-drive loaders with the same capacity.
- ▼ The AC squirrel-cage type motor is featuring high reliability, low maintenance ratio and large output torque, etc.
- ▼ The electrical positive-flow hydraulic working system, associated with constant-power control technology, has improved the energy conservation, fast response, and controllability of the hydraulic system and the efficiency of the combination process.
- ▼ The electrical load-sensing handle-steering system can realize the accurate control of the machine and improve the comfort of the operator.
- ▼ The unique working device with the dual-rocker arm is configured with the limit sensing mechanism with angle memory, featuring functions including elevating limit, automatic leveling, etc. to ensure accurate limit, reduce the impact and prevent repetitive operations during elevation and unloading. It can not only minimize the working intensity but also improve the operating efficiency of the machine.
- ▼ Hybrid power and energy recovery, with effective recycling of energy generated by integrated electro-hydraulic braking (EHB) to drive the wheel rim motor and minimize the abrasion of mechanical braking.

## Luxurious operating environment

- ▼ All-new integrated and supercharged driving cab, complying with the requirement of ROPS&FOPS specified in relevant ISO standard.
- ▼ Adjustable and air-suspension seats with high backrest featuring streamline design and shock-absorption, configured with seat for co-driver.
- ▼ The operating data, failures, and alarms will be indicated on the LCD metal dome array and the control instruments.
- ▼ The silicone oil shock absorbers are adopted to connect the cab with the frame to realize the flexible vibration transmission and remarkably reduce the jitter within the cab.
- ▼ The high power heating and air conditioning system with intelligent temperature control and the pressurized cab provide you with a super-quiet and dust-free comfortable operating environment with appropriate temperature.
- ▼ Noise to the operator  $\leq 75\text{dB}$ .



## Safety braking

- ▼ Electrical retarder brake: It is controlled by the accelerator pedal which can stop the machine without applying the mechanical braking.
- ▼ Service brake: The braking disc of hydraulic braking motor. Each drive motor is configured with one braking disc and one braking caliper to ensure braking on fixed points of the machine.
- ▼ Parking brake: It is the spring braking with the braking disc of hydraulic release drive motor, that each motor inside the rear drive axle housing is configured with one parking brake.
- ▼ The real-time collection of temperature and pressure data will be done by the sensors in the tires for safety operation.



## Reversing camera system

- ▼ The reversing camera system is equipped to reduce the rearview blind zones and improve the working safety.



Maintenance access

- ▼ 45° automatic ladder with three-point support for the operator with safety and comfort.
- ▼ Left and right aisles with emergency exits with easy access.
- ▼ The machine is configured with multiple platforms and points for maintenance and the hood is designed with various rotary structures for easy maintenance and limited duration of shutdown required.

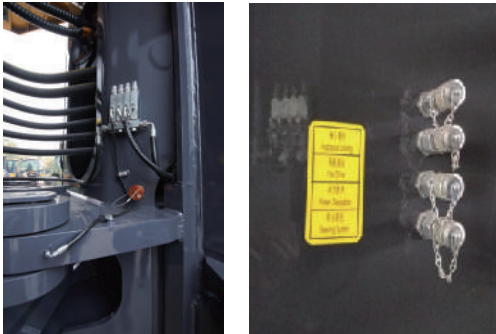


Centralized and fast filling and sampling

- ▼ Quick filling of fuels, engine oil, and hydraulic oil with high efficiency.
- ▼ The centralized sampling of transfer case gear oil, engine oil, and hydraulic oil with easy operation.

Centralized lubrication and pressure test

- ▼ The centralized lubrication system is to apply greases for articulated points and prevent the failure of the lubrication system due to the blocking of certain lubricating points.
- ▼ Integrated pressure test interface of the hydraulic system for easy detection and maintenance.



XCMG’s intelligent management system

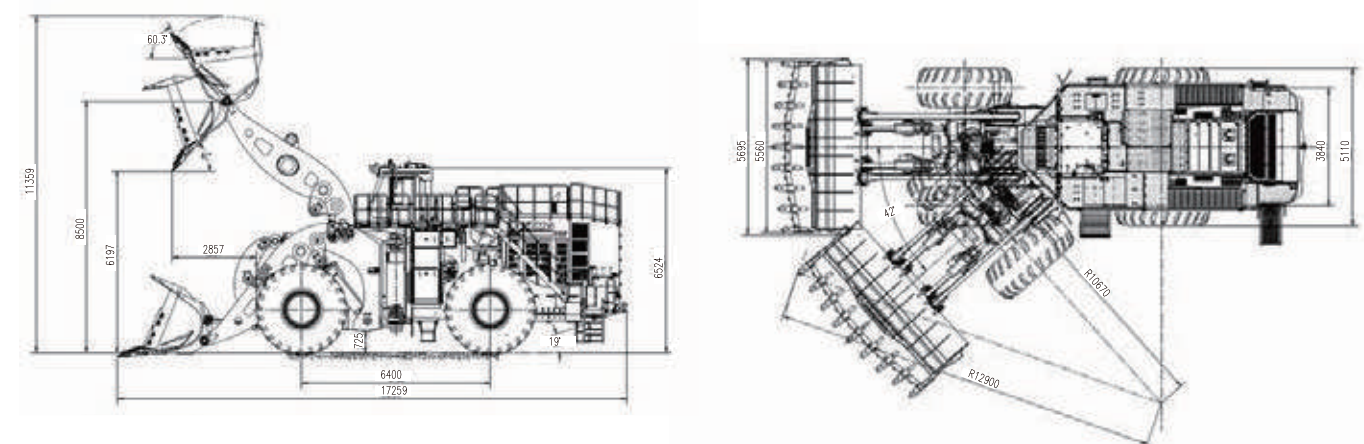
Easy driving and easy control

- ▼ Released on the basis of China-III equipment, the XCMG’s intelligent management system enables the user to master the operation and maintenance status of the equipment via mobile phone, PAD, and computer and, by means of data acquisition and analysis, realize the accurate evaluation on user’s project and guarantee the best matching of equipment.



- Optimized equipment matching
- Enhanced productivity
- Increased management efficiency
- Lowered operation cost
- Reduced operation risks
- Optimized profitability

Overall dimensions



Main specifications

Description	Specifications	Unit
Wheel tread	3840	mm
Tire outside width	5110	mm
Bucket width (excluding the baffle for rocks)	5560	mm
Bucket width (including the baffle of rocks)	5695	mm
Maximum machine height	11359	mm
Height of hinge pin	8500	mm
Dumping height	6197	mm
Dumping range	2857	mm
Minimum ground clearance	725	mm
Wheelbase	6400	mm
Length of machine with loads	16915	mm
Dimension of the machine on the ground	17259×5695×6524	mm
Minimum turning radius (tire center)	10670	mm
Minimum turning radius (On outer side of bucket)	12900	mm
Tire specification	50/65R51 L-5	-
Steering angle	42	°
Bucket capacity	18	m³
Operating mass	150000	kg
Engine power	970	kW
Rated speed of the engine	1800	RPM
Maximum breakout force	961	kN
Total cycle time	≤21	s
Vehicle speed	0-20	km/h

No further information of sample contents, product structure and configuration parameters updates. there maybe some difference between sample books and material objects. Please kind prevail.