



XC938

— WHEEL LOADER —





OVERVIEW

- XC938 wheel loader is a new generation of loader. XCMG makes full use of Group's international R&D platform to integrate global technology research and development resources to create international advanced and completely independent intellectual property rights. This model is powerful, rugged, energy efficient, safe and comfortable, and easy to maintain. It is the preferred production equipment for various construction projects, gravel gravel plants and municipal construction.
- XC938 is equipped with Weichai Guoer engine, Hangchi split gearbox/XCMG self-made planetary gearbox, XCMG heavy duty dry bridge. The whole machine has significant advantages in terms of reliability, energy saving, high efficiency and comfort, and has reached the international advanced level.

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PERFORMANCE HIGHLIGHTS

Traction traction can reach 100kN, maximum lifting force can reach 130KN, three items and time $\leq$ 8.8s, strong and efficient.

The bucket can be equipped with a 1.8-3.0m³ bucket depending on the material and working conditions. It can also be equipped with a quick changer to quickly switch between different buckets and tools to meet the various needs of customers.

ENERGY-SAVING, AND HIGH EFFICIENCY

The most advanced energy-saving technology in the application industry: equipped with engines that meet stage II emission standards, XCMG proprietary engine curves, intelligent thermal management systems. The load sensing hydraulic system is capable of dispensing the fuel supply as needed when the work unit is actuated. At the same time, command-based control makes the operator's work easier and more fun

INNOVATIVE FUEL EFFICIENCY

The full-automatic power shift transmission matches reasonably with engine system. The transmission can match with the parameters, including the engine speed and machine speed, to automatically adjust the gear of loader and guarantee the running of machine under highest efficiency status. This can speed up the cycle time and reduce the fuel consumption. If the loader requires more power under complicated working condition, the operator can manually downshift to a lower gear to meet the working needs.

High Efficiency Power

The machine is powered by Cummins Euro-III compliant (Optional Euro-V compliant) electronic control turbocharged engine, in which the high pressure common rail fuel supply system is controlled by the ECU to achieve the advantages of accurate fuel injection control, high consumption efficiency, and low fuel consumption and emission.

Excellent power matching

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High-Efficiency Hydraulic System

The full-variable load-sensing hydraulic system supplies on-demand power to the hydraulic devices and steering device to eliminate energy waste and reduce fuel consumption. The powerful hydraulic system can guarantee the quick response within shorter cycle time and more stable operations by excellent control of load and attachment.

Low-speed energy-saving radiator system

The automatic stepless-regulated low-speed radiator system can remarkably reduce the fuel consumption besides the quiet working characteristic.

COMFORTABLE PROMOTION OF PRODUCTIVITY

We all know that the operator feeling comfortable can relieve the fatigue feeling and promote the working efficiency and operation safety. Therefore, designing an industry leading cab around the operator to provide a spacious, safe, quiet, and comfortable environment can further improve the operation safety and maintain high productivity.

Single-Joystick Control

The optional multifunctional joystick can ease the operator's operations and meanwhile accurately control the hydraulic functions. The forward, reverse, and kick-down functions are provided on the control panel.

Driving Stabilizing System

While driving on rugged roads, the optional driving stabilizing system can improve the driving stability and load retentivity. The operator can be more confident during the transfer operations at high speed to promote the productivity.

CE Compliant Cab Access

The driver can open the cab door by standing on the ground and then access the cab safely and conveniently via the obliquely installed ladder. The optimally arranged handrails can maintain the safe three-point contact at all times.

Cab Air Filter

The cab air inlet port is located on the right side of the cab and is installed with easily replaceable air filter. The fresh air is supplied into the cab after its dusts and particles are filtered out by the air filter. In addition, the air filter works with the excellent airtightness of the cab to play a slight pressurization role to further isolate the external dusts. The working environment is clean and comfortable and is comparable with the working efficiency.

With a broad vision, the cab boasts the industry's best 316.5° effective horizontal visual angle.

Cab: This machine is equipped with FOPS/ROPS pressurized cab, with heating and A/C system and diaphragm molded rubber floor. **Instruments:** The multifunctional combination instrument centrally displays all important information within the operator's visual range.

Seats: The adjustable suspension seats are fixed on the cab floor.

Certification: The cab has been tested and certified as per ROPS standard (ISO 3471) and FOPS standard (ISO 3449).

Depending on diversified operation needs, various high firmness and durability attachments can be installed to maximize the productivity and achieve more applications. No matter the repeated handling of material, the loading and unloading of cargo, the gripping of lumbers or steel tubes, or other application, these attachments can effectively fulfill diversified tasks and promote the efficiency.

HIGH-EFFICIENCY DIGGING AND LOADING

In response to the heavy working conditions, the boom and bucket breakout forces are optimized to promote the digging capacity by 15%. The boom and bucket can realize composite motions to further promote the working efficiency.

The selection of bucket depends on the material density and the expected bucket fullness coefficient. Thanks to the bucket design, the excellent rollback angle in all directions, and the outstanding bucket loading performance, the actual bucket capacity is generally higher than the rated capacity.

Handling Bucket

The shape design of the bucket is optimized to fully fill the bucket faster and more efficiently during the digging and meanwhile achieve high fullness coefficient. The guide plates are installed on the top of the bucket to reduce the spilling of material during the lifting and meanwhile effectively protect the cab.

Shorter work cycle time

The displacement of the hydraulic pump and the travel of the lifting cylinder are optimized to increase the boom lifting speed by 12% and increase the steering speed by 10%. In addition, the steering angle of the machine is increased to 40° to achieve shorter driving route and faster work cycle during the loading operations.

Optional Attachments

XC9 series loader is provided with diversified optional attachments so that the customers can choose different attachments depending on own needs, such as gripping of lumbers, side-umping in tunnels, handling in quarries, earthwork loading, and material lifting. In response to the digging operation, multiple buckets are offered at the customer's choice, such as mine bucket for rocks and light material large bucket for coal or wood bits. In addition, the optional quick change structure can be installed to realize "One machine for multiple applications".

Z-Link System:

The traditional Z-link system is in-depth optimized by XCMG to achieve powerful bucket breakout force and outstanding boom lifting capability at any position. The redesigned hydraulic system realizes the simultaneous tipping and lifting motion of bucket to achieve more powerful digging capacity and faster material loading of the bucket.

XC9 series loader incorporates incomparable reliability to ensure long-time continuous working and reduce unnecessary maintenances. The long-tested drive parts and heavyweight structural parts work with more diligent detail design to ensure that the machine is competent for more stringent working conditions.

The world's leading design means and intelligent manufacturing technologies ensure that the structural parts, including front and rear frames and attachments, meet the working needs under diversified heavy working conditions. The concise large articulated open-type heavyweight structural parts reduce the stress concentration and meet the working needs under diversified severe working conditions. The heavyweight articulated structure guarantees longer life.

This product is powered by Euro-III compliant electronic control turbocharged engine, in which the high pressure common rail fuel supply system is controlled by ECU to achieve accurate fuel injection control, high pressure, low pressure fluctuation, optimal combustion rate, atomization, and ignition timing, high combustion efficiency, high power reserve, and strong power. This engine features the advantages of high reliability, high adaptability, low fuel consumption, and low emission.

Radiator system

The single-layer radiator system with large fin spacing + rotary openable A/C radiator prevent the accumulation of material at radiator openings and meanwhile ease the maintenances. Every radiator can be replaced rapidly and independently.

The transmission and drive axle of industry's renowned brands are installed to guarantee reliable performance and durable life. The rear axle can swing for $\pm 12^\circ$ to maintain four tires on the ground, in order to keep stability on rugged roads and easily play the powerful traction force of the machine.

POWER SYSTEM

Hydraulic torque converter: Single-stage, single-phase, and three-element type.

Transmission: Full-automatic transmission, with KD function and 4 forward and 3 reverse gears, featuring outstanding performance. It adapts to the operating needs under diversified working conditions of the loader.

Drive axle: Wet type axle, with fixed front axle and swing rear axle installation.

EASY CHECKING AND MAINTENANCE:

Reduction of Unnecessary Downtime

First-class machine repair and maintenance access and reasonable machine layout and structural design.

Lubrication System

During the running of loader, the optional automatic lubrication system controls the lubrication to provide longer running time and reduce the maintenance cycles. The operator can change the lubrication interval depending on the application.

Engine Hood

The integral large-angle side-opening engine hood + uplifting rear hood ease the maintenances of engine oil filter, diesel filter, transmission and torque converter oil filters, and air filter and meanwhile ease the cleaning of every radiator fin.

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Centralized Oil Filling and Drainage

The inaccessible hinge lubricating points and the engine oil/water drainage ports are centrally guided out to ease the maintenances.

MAIN PARAMETERS

Items

Rated operating load	3500	kg
Bucket capacity	2.1	m ³
Machine weight	10500	kg
Dumping height	2850	mm
Dumping distance	1080	mm
Wheel base	2900	mm
Tread	1800	mm
Height of hinge at maximum lift height	3839	mm
Working height(fully lifted)	4870	mm
Max.breakout force	130	kN
Max.horse power	100	kN
Ultimate tipping load/kg(straight)	8000	kg
Ultimate tipping load/kg(full steering)	7000	kg
Hydraulic cycle time-raise	5.2	s
Hydraulic cycle time-down	2.3	s
Hydraulic cycle time-tilt	1	s
Total hydraulic cycle time	8.8	s
Min. turning radius over tyres(tire center)	5140	mm
Min. turning radius over tyres(tire outward)	5270	mm
Min. turning radius over tyres(bucket outward)	6055	mm
Articulation angle	38	°
Gradeability	28	°
Tyre size	17.5-25-12PR	
Overall machine dimension L×W×H	7350×2482×3220	mm
Engine Model	WP6G125E22	
Emission standards	II	
Rated Power/Speed	92/2200	kW/rpm
Peak Torque/Speed	500/1400	N.m/rpm
Fuel Tank	165	L
Hydraulic Tank	130	L
Coolant/L	35	L
DEF tank/L	/	L
Engineoil/L	14	L
Transmission oil/L	32	L
Front and Rear axle oil/L	2×12.5	L
Transmission Pattern	lectronic control fixed shaft transmission	
Transmission gear	F4R2	
Travel speed	I -gear(F/R)	8/10 km/h
	II -gear(F/R)	14/31 km/h
	III-gear(F/R)	26 km/h
	IV-gear(F/R)	38 km/h
Front and Rear axle differential pattern	Open	

OUTLINE VDIMENSIONS

