

WHEEL LOADER XC938U



EU Stage V/EPA Tier IV

XCMG North America Corporation
5145 Schirlls St Las Vegas, NV 89118
Email: xcmgna@xcmg.com
Phone: 725-605-2777
Web: www.xcmg-usa.com





INTRODUCTION OF XCMG

XCMG, as a leading enterprise valued of 100 billion RMB, with the largest scale, the best technology level, the largest export volume, and high competitiveness and influence in China's construction machinery industry, has been occupying the first place in China's construction machinery industry for decades, and it now ranks the third in the world industry and the 395th among the world's top 500 brands.

The main products by XCMG consists of 16 categories of equipment such as hoisting machinery, excavation machinery, concrete machinery, mining machinery, earth-moving machinery and road machinery, etc., as well as three categories of key components such as hydraulic system, transmission system and electric control system. Among above-mentioned, hoisting machinery ranks first in the world, and package solution of road construction and maintenance machinery, piling machinery and concrete machinery are among the first-class bloc in the world.

XCMG has accumulated more than 8000 approved patents, including more than 1900 invention patents and more than 130 PCT international patents. Entities of R&D centers, manufacturing plants or KD factories are in operation in more than 10 countries such as Germany, the United States, Brazil and India, XCMG has also acquired three European enterprises including Schwing in Germany. The Brazil manufacturing plant, with an investment of 350 million dollars to build up factories on a bare ground, has become a model of economic cooperation between China and Brazil. At present, XCMG products are exported to 187 countries and regions, covering 97% of the countries along "The Belt and Road" area. In export business to 35 countries, XCMG's proportion ranks NO. 1, with a steady first place within Chinese industry in terms of annual export volume and overseas income.

OVERVIEW

— Cummins Engine

The cummins B6.7 engine provides a output 99Kw/133Hp with unmatched performance, This engine is EU Stage V/ Tier4 Final certified

— Z-bar linkage

Adopted multi-objective working device hinge point optimization technology, enhance the hinge pin, improve the breakout force and lifting capacity.

— Intelligent cooling system

Hydraulically driven cooling fan, auto-reversing fan is controlled by program; based on temperature ,it adjust speed automatically

— Versatility

The quick coupler and third function hydraulic are standard, can be easily and quickly switching between a range of attachments.

— Transmission

ZF full powershift transmission with torque converter allows the operator to select manual shifting or automatic shifting, excellent shifting performance.

— Hydraulic

Variable displacement piston pump and load sensing system, the advanced hydraulic system is high efficiency and energy efficient.

— Visibility

Once in the cab, experience the great view; New larger convex mirrors improve visibility to the both sides.

— Serviceability

Side flip cab is standard, all components under cab are accessible, larger door hood make access and daily maintenance easy.

— AXLE

Wet axle is standard, accommodate to long distance transportation and high dust environment.

— Control

The EH control joystick provide the operator with precise control of the work tool, Kick-down and FNR buttons located on the lever is convenient and efficient for operator



performance and features

The XC938U integrates a world famous brand Cummins B6.7 Tier 4 Final engine. Cummins award-winning VGT Turbocharger sets the industry standard for reliability and durability as it increases equipment productivity. Increased fuel economy and longer maintenance intervals contribute to a reduced cost of operation and lower Total Cost of Ownership. EGR-free architecture reduces complexity, improves reliability and reduces the cooling system space claim. Torque output more power while also low fuel consumption.



The XC938U is equipped with a ZF powershift transmission available in 4F/3R. The XC938U Achieves high gear ranges and maintains high travel speed when working in long distance transport application. In most applications, production is increased and fuel consumption is reduced, resulting in optimized gear ratios and auto-shift functionality. Kick down and FNR buttons are conveniently located on joystick. With the kick-down function, can lower the gear and increase the torque generated by the engine for more traction force and loading capacity.

The axle has been proven in market for a long time. The XC938U optionally utilizes limited-slip differential axles that automatically deliver power to the treads, take advantage of the powerful traction, with better passability in slippery terrain. XCMG axles are stability and excellent service brakes with wet disc, traction further enhanced by rigidly mounting to the frame to support the entire weight.

XCMG advanced variable hydraulic system continuously and automatically matches the hydraulic flow with the machine performance desired base on need, ensures the working device and steering functions high efficiency and lower fuel consumption. Steering functions with load-sensing hydraulic system, ensure smooth operation and fast response, optional secondary steering. Auxiliary third hydraulic function is standard, can be equipped with versatile attachment easily.

Comfortable operation surrounding



— Luxury Operator Seat with Electrical Joystick

Heat, air-suspension seat provides the operator a maximum comfortable and less fatigue ride. Vertically and horizontally adjustable seat is further comfortable for the operator. A console lever is built into and moves with the seat, FNR switch and kick-down function are integrated into working equipment lever, it is easier operation and high efficiency.



— Seal and Soundproof Cab

A pressurized and low noise cab provides the operator a sustainable and well-rest working environment, result from cab mounts connecting the cab to the frame, the cab sealing is also improved to provide a low-vibration, dustproof and comfortable operating surrounding

— Fresh Air and Suitable Cab Temperature

Luxury automatic AC is a standard equipment on the XC938U, the XC938U cab is designed with optimized ventilation. AC is equipped with eleven all-around outlets to keep the cabin at a comfortable temperature. Dual filter easily replaced protect cab from dust entering.

— Tiltable /extend-retract Steering Wheel

The operator can tilt and telescope the steering wheel with adjusting the seat to allow maximum comfort and control. Tilting forward angle: 15°, Tilting back angle: 25°.



Comfortable operation surrounding



— Rear view camera

Operators benefit from a view of their surroundings all the time. The standard rear view camera provides visibility behind the machine, helping the operator work confidently.



— Excellent visibility

The XC938U has been optimized visibility, the cab with well-positioned column provide a 316° visibility around the operator. Cab with cured front glass provides an excellent front visibility. New larger inside convex mirrors improve visibility to the rear, heated integrated outside mirrors provide excellent visibility to both sides of the machine.

— High Resolution Machine Monitor

The color monitor can display working hour, temperature, fuel level, maintenance information and many other outputs. The panel has a large text box, operator can select language about machine information.



— Easy of operation

The centralized switch panel is designed sealed against moisture and dirt, the ISO standard symbols located on each membrane switch are molded to ensure the image will not wear off over time. Focusing on convenient, the control panel has been designed to be easy to reach the machine controls.



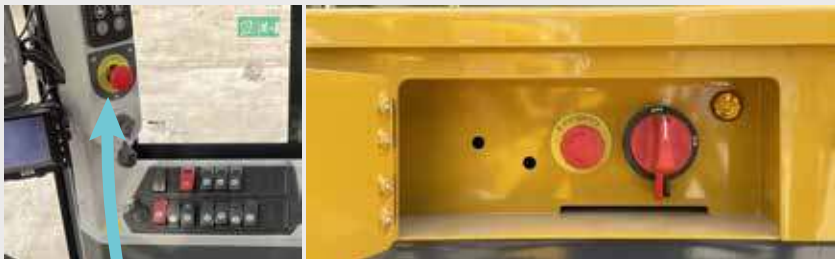
No Compromise On Safety

— ROPS&FOPS Cab

ROPS (Rollover Protective System) and FOPS (Falling Object Protective Structure) are standard equipment to protect operator. The ROPS and FOPS cab is certified, satisfy with ISO standard.

— Engine Shutdown Emergency Switch

Emergency Switches are designed for engine shutdown when the key switch is unavailable. There are two emergency switches, one is for operator in cab, the other under the left side platform is convenient to operate on ground level.



— Safe Access

Safe from the inside out, welded anti-slip bars and placed handrails, the space between the steps and the access to the cab are satisfy ISO standards.

— Wheel chock

Wheel chocks (optional) are placed to prevent machine moving when stop machine on the slope. Wheel chock a wedge of sturdy material is manually placed behind the wheels.



Maintenance Make Easy



Large engine hood door

The large engine hood doors make access and daily maintenance easy, lightweight polymer material require minimal effort to open and close. The single row radiator and AC cooler core swung out make easy to clean.

Side-turn type cab

The manual hydraulic system make cab flipping easily, all key components under the cab are easy to reach and replace with high efficiency.

Fuel refilling

The fuel refilling port is front a lockable door for security and designed for easy-to-reach ground level access, fuel filter can be replaced easily without the need for tools.



DEF Tank

The DEF tank is located on the right side of the machine and easy to refill ground level access.



Maintenance Information

When the time arrived for maintenance, the monitor appears a wrench symbol; after maintenance can clear the symbol.

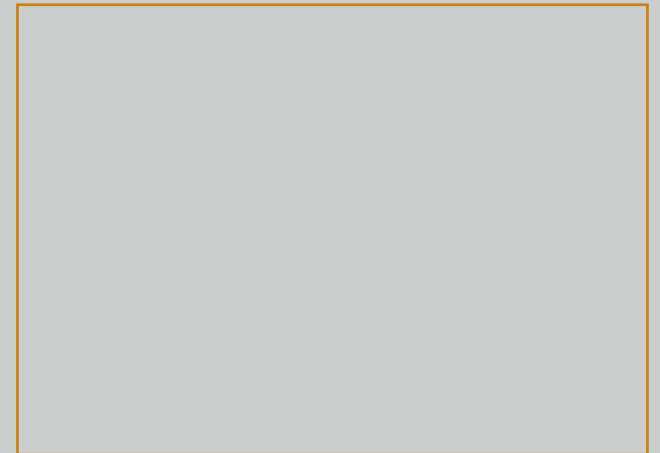
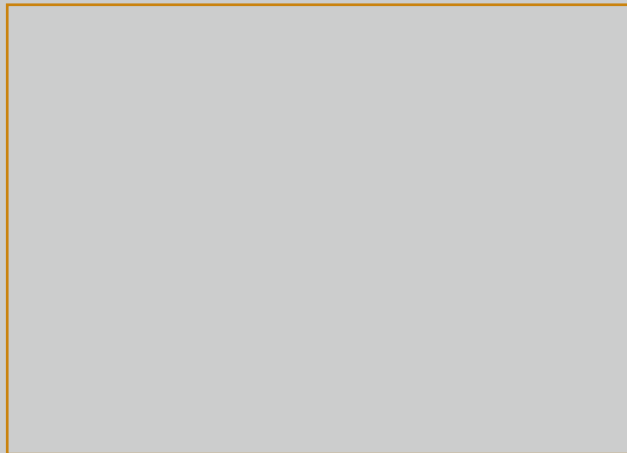
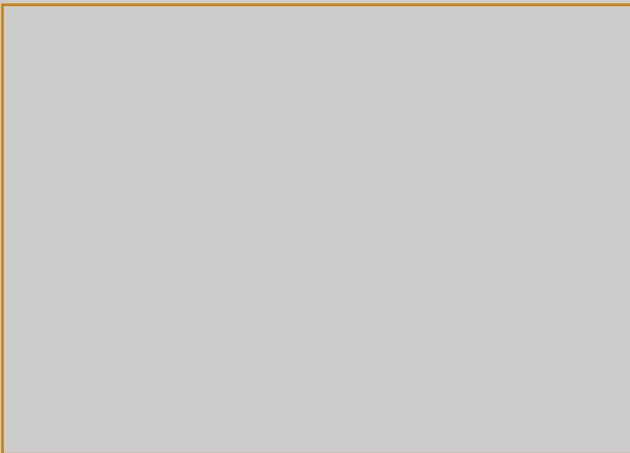
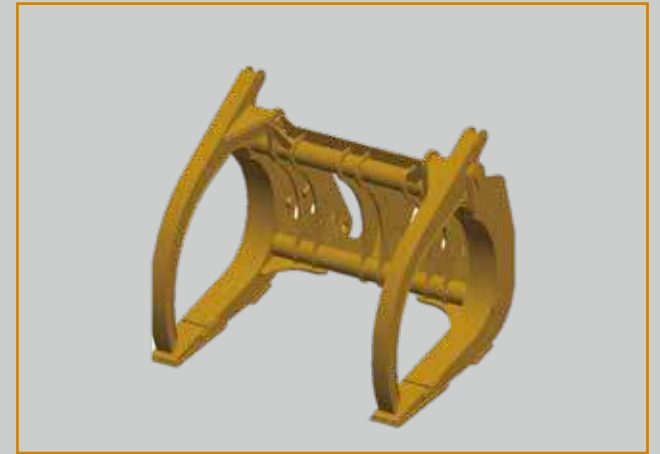
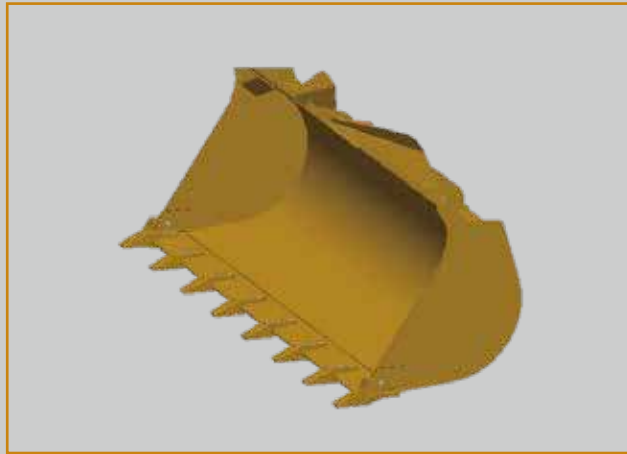
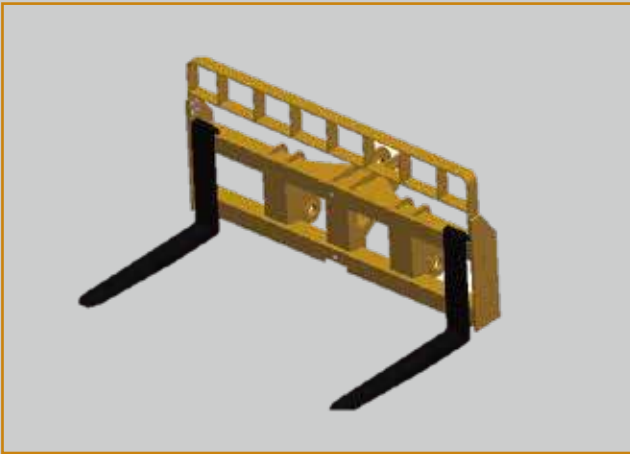
The monitor panel also display troubleshooting number for quickly locking the problem and repairing.

The fuel and DEF level gauge are displayed on the monitor panel.



— JRB Quick Coupler and attachments

Our quick coupler is designed as JRB Standard which is widely used in North America, the standard quick coupler not only allows one machine to use a series of attachments, but also allows one attachment to be equipped by machines of different sizes. The operator can switch attachments in cab by EH joystick. Also can select different sizes of attachment to suit for different applications.



Technical Specifications

ENGINE

Cummins EU Stage V/ Tier 4 Final emissions certified		
Model	B6.7	
Type	Water-cooled, 4-cycle	
Aspiration	Turbocharged & air-to-air intercooled	
Number of cylinders	6	
Displacement	6.7L (408 in³)	
SAE J1995	Gross power	116kW
Peak torque	746Nm	
Fuel system	Direct injection	
Air cleaner	Pre-cleaner and dry type with double elements	

TRANSMISSION

ZF counter-shaft transmission, Automatic Power Shift, integrated joystick with FNR and KD(kick-down)		
Torque converter	Single-stage, three-element	
Transmission type	Counter-shaft, Power shift	
Travel speed	Forward Reverse	Reverse
1st	8 km/h (5 mile/h)	8 km/h (5 mile/h)
2nd	15 km/h (9.38 mile/h)	15 km/h (9.38 mile/h)
3rd	27 km/h (16.88 mile/h)	27 km/h (16.88 mile/h)
4th	40 km/h (25 mile/h)	
Measured with 23.5R25 tires		

AXLES AND FINAL DRIVES

Model	XCMG Wet Axle
Drive system	Four-wheel drive
Front	Fixed,Full-Floating
Rear	"Fixed on Swing frame,Full-Floating 22° total oscillation"
Reduction gear	Spiral bevel gear
Differential gear	Conventional type
Final reduction gear	Planetary gear, Single reduction

HYDRAULIC SYSTEM

Steering system	
Hydraulic pump	Piston type
Relief valve setting	14MPa
Number of cylinders	2
Loader system	
Hydraulic pump	Piston type
Relief valve setting	21MPa
Number of boom cylinders	2
Number of bucket cylinders	1
Raise time	4.45s
Dump time	1.5s
Lower time(empty)	3.05s
Total cycle time	≤9s
Controls	Joystick

STEERING SYSTEM

Load-sensing hydraulic articulated steering, the steering system has priority feed from a load-sensing piston pump with variable displacement.	
Type	Articulated type
Steering angle	38°

BRAKES

Service brakes	Wet discs actuate on four wheels
Service brake actuation	Hydraulic
Parking brake type	Manual electrical control
Parking brake actuation	Hydraulic
Cooling	
Fan drive	Hydraulically driven, Automatic reversing



Technical Specifications

CAB

The cab is ROPS & FOPS certified, ROPS/FOPS meet ISO 3471 and ISO 3449

Pressurized cab with lower interior sound level

Adjustable steering column, heated air suspension seat, AM/FM radio, armrest box, and AC with optimized air outlets

Large heated rearview external mirrors with integrated spot mirrors, rear-view camera and mirrors ensure great visibility

High resolution larger color LCD panel, all important informations are located in the panel.

SOUND

The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment

Operator Sound Pressure level according to ISO 6396-2008	72db
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Exterior Sound Power level according to ISO 6395-2008	104db
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Heating capacity	>6500W
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Air conditioning	>5000W
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SERVICE REFILL CAPACITIES

Fuel Tank	220L (58.13 gal)
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DEF Tank	18 (4.76 gal)
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Cooling System	25L (6.61 gal)
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Crankcase	20L (5.28 gal)
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Transmission	30L (7.93 gal)
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Differentials and Final Drives-Front	55L (14.51 gal)
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Differentials and Final Drives-Rear	55L (14.51 gal)
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Hydraulic Tank	160L (42.27 gal)
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ELECTRICAL SYSTEM

Voltage	24V
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Batteries	6-QAW-180D
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Battery capacity	180Ah
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Cold cranking capacity	900A
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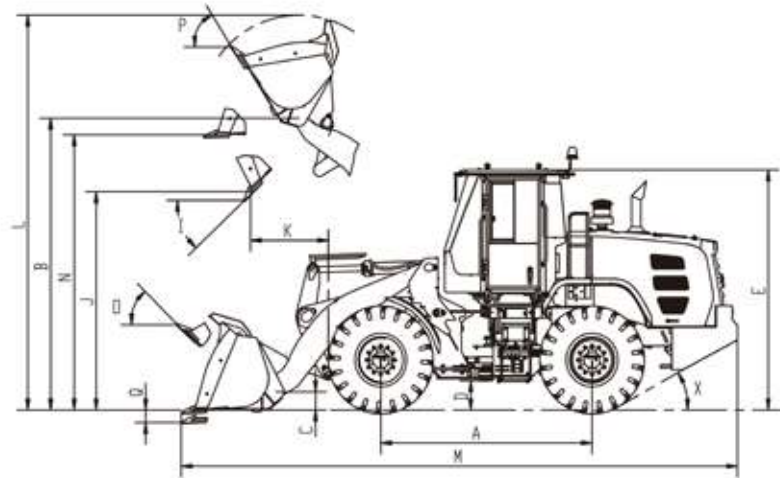
Reserve capacity	
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Alternator rating	
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Starter motor output	
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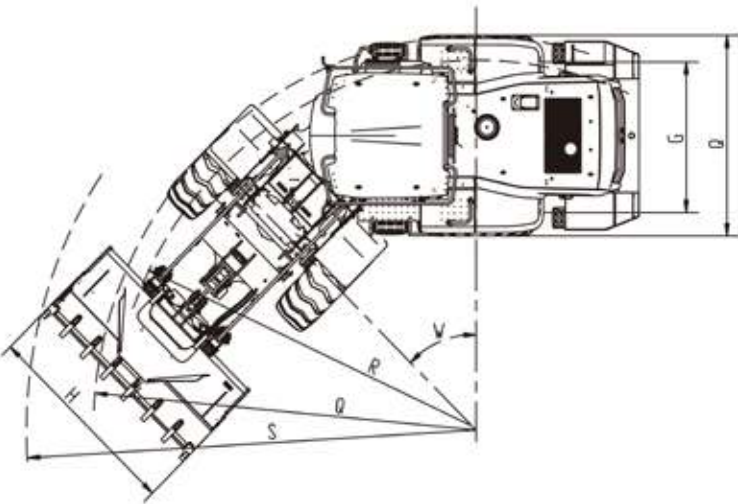
Technical Specifications

DIMENSIONS



F Tread	1930mm(6.33ft)
G Width over tires	520mm (1.706ft)
A Wheelbase	3000mm(9.84ft)
B Hinge pin height	3970mm (12.02ft)
D Ground clearance	410mm(1.35ft)
C Hitch height	400mm (1.31ft)
E Overall height, ROPS cab	3320mm(10.89ft)

Z-Bar				
Bucket capacity	1.9m ³	67.10ft ³	2.4m ³	84.76ft ³
H Bucket width	2482mm	8.14ft	2550mm	8.37ft
I Maximum dump angle at full height	45°		45°	
J Dump clearance, max height and 45° dump angle	2938mm	9.64ft	2850mm	9.35ft
K Reach at max.height and 45° dump angle	1152mm	3.78ft	1228mm	4.03ft
L Operating height(fully raised)	5345mm	17.54ft	5415mm	17.77ft
M Overall length(bucket on ground)	7750mm	25.43ft	7865mm	25.8ft
N Maximum digging depth	60mm	0.2ft	60mm	0.2ft
O Bucket rollback at ground level	42.2°		42.2°	
P Bucket rollback at maximum height	57.4°		57.4°	
Q Turning radius, outside of tire	5615mm	18.42ft	5615mm	18.42ft
R Turning radius, center of tire	5322mm	17.46ft	5322mm	17.46ft
S Turning radius, bucket carry	6270mm	20.57ft	6356mm	20.57ft
Static tipping load:straight	90kN	20233lbf	90kN	20233lbf
38° full turn	78kN	17535lbf	78kN	17535lbf
Breakout force	105kN	23605lbf	105kN	23605lbf
Operating weight	13500kg	29762lb	13500kg	29762lb



STANDARD EQUIPMENT

ENGINE

"Engine, Cummins B6.7 Tier 4 Final/Stage V emission standards"

High pressure common rail

Automatic derating for exceeded system temperatures

Engine-block heater

Aftertreatment, Cummins

Centrifugal engine air pre-cleaner

Reversing fan cooling

POWERTRAIN

ZF power shift transmission

Programmable maximum high gear

Transmission fill tube and sight gauge

Transmission diagnostic ports

Kick-down function,FNR,F4/R3

XCMG front limited slip differential

XCMG rear convention wet axle

Wet disc service brake system

Disc parking brake system

TIRE & RIM

23.5R25 L3

OTHER STANDARD EQUIPMENT

Full rear fender

Hydraulic articulation stops

Sight gauges: Hydraulic oil

HYDRAULIC SYSTEM

Load sensing system with flow amplification and steering priority

Piston pump with variable displacement

Joystick control

Automatic return-to-dig bucket positioner

Automatic boom kick out

Hydraulic diagnostic ports

3-spool valve with lever and piping

Hydraulic control system for quick-coupler

Adjustable and continuous hydraulic-flow settings

ELECTRIC SYSTEM

Wipers front and rear

AM/FM radio

Batteries, free of maintenance

Battery-terminal safety covers

Horn, electric

Revere warning alarm

Four LED work lights(cab mounted)

Two halogen roading lights

Two LED turn tail lights

CAB

Cab, pressurized and sound suppressed, ROPS/FOPS certified

Air suspension seat

Air conditioning, heater and defroster

Cab fresh air filter

Heated rearview external mirrors

Adjustable steering column

Beverage holders with storage

Sun visor, front

Fire extinguisher

Window, sliding(left and right sides)

GAUGE GROUP

Engine coolant temperature

Transmission oil temperature

Engine oil pressure

Fuel level

Work hour

Voltage

Brake oil pressure

DEF level

Error code

LINKAGE

Optimized Z-bar linkage

2.5yd³(1.9m³) general purpose bucket with teeth

Quick coupler

OPTIONAL EQUIPMENT

Secondary steering

Pin-on (3.5m³) General Purpose

Pallet fork

Automatic lubrication

Electrical weight system

Bucke with bolt-on cutting edge

Ride control system

Optimum Services , XCMG Guaranteed



XCMG approved attachments



Genuine parts



Financial solutions



Maintenance contract



Full Range of Services Ready for you

In order to respond to your needs as fast as possible, XCMG 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.

Professional Integrated Complete Solutions

XCMG group 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.

XCMG Global Spare parts System



Mobile cranes



Excavators



Aerial work platforms



Wheel loaders



Road machinery



