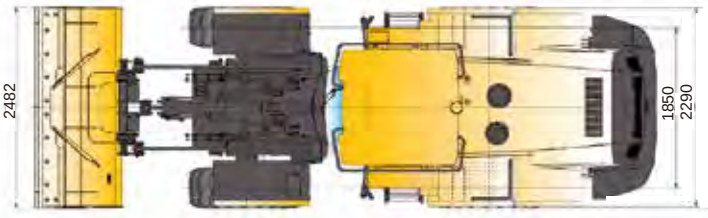
XCMG

XC938E

WHEEL LOADER

XC938E WHEEL LOADER



Main Specifications

Item		Unit	Parameters
Rated bucket capacity		m^3	1.9
Operating mass		kg	11000
Dumping height		mm	2930
Dumping reach		mm	1010
Overall length		mm	7640
Overall height		mm	3470
Bucket width		mm	2482
Maximum breakout force		kN	130
Maximum traction force		kN	97
Total cycle time		s	＜8.8
Engine rated power		kW	99
Traveling speed	Drive gear I/II/III/IV	km/h	7/13/24/36
	Reverse gear I/II/III	km/h	7/13/24

Product Overview

- XC938E 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.
- XC938E is equipped with Euro V emission engine, ZF 4WG160 automatic transmission, ZF wet drive axle, electro-hydraulic proportional load sensitive hydraulic system. The whole machine has significant advantages in terms of reliability, energy saving, high efficiency and comfort, and has reached the international advanced level.

Technical Characteristics

- Traction traction can reach 97kN, maximum breakout force can reach 130KN, total cycle time ≤ 8.8s, strong and efficent.
- The bucket can be equipped with a 1.8~2.5 m^3 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.

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XCMG EARTH MOVING MACHINERY BUSINESS UNIT

XC938E

XCMG Wheel Loader

XUZHOU CONSTRUCTION MACHINERY GROUP INC.
www.xcmg.com

Meeting Value-Added Needs

Bearing the core value of "Assuming great responsibility, practicing great course, and achieving great success" and undertaking the mission of exploring engineering technology and offering solutions for global engineering construction and sustained development, XCMG adheres to driving the advancement of engineering technology with innovations to reduce the costs and increase the profits for the extensive customers. As an important sector of XCMG, XCMG Earthmoving Machinery Business Unit will surely provide you with lifecycle services for your more efficient and easier operations.

Lean Production

Under the guidance of lean thinking and guaranteed by five foundational managements, namely standardized operation, visualized management, field improvement, 5S, and foundation stability, XCMG sets up all-round lean operation system from R&D to services to strive for the world-class excellence operation performance.

Meeting Needs

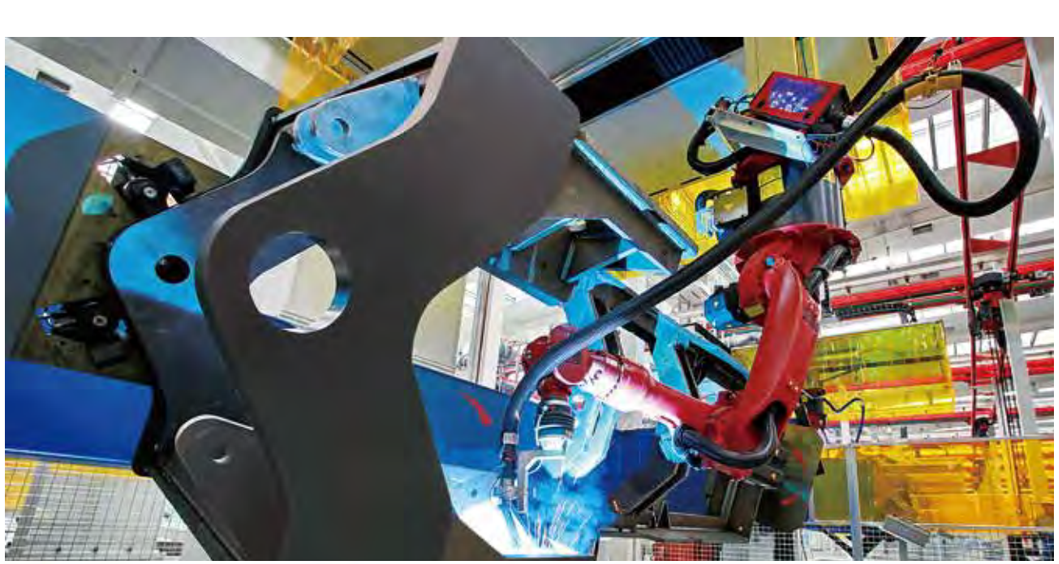
By playing the craftsmanship spirit, XCMG dives into the research on the special needs of diversified industries with professional and concentrated attitude. We take the customers' works as our own works for in-depth research to creatively offer the best solutions.

Fighting Forward through Vicissitudes

Born in the war times, the XCMG predecessors, with the self-reliant courage and wisdom, undertook the flag of leading the development of China's construction machinery industry. In the new age, XCMG keeps up with the age to achieve leapfrog development and owns advanced solution packages. No other brand can offer better and more complete solution packages than XCMG.

Innovation system of global layout

With various industry R&D centers as the R&D main forces, XCMG relies on 5 technology R&D centers, namely Xuzhou Research Institute, U.S. R&D Center, India R&D Center, Europe R&D Center, and Brazil R&D Center, to form a R&D layout of global coverage, comprehensively develop new products, and systematically research product reliability, product adaptability, common technology, and laboratory technology.



Small-sized loaders | Medium-sized loaders | High-tonnage loaders | Gas-powered loader | Clamp loader | Side-umping loader | Underground loader | Rock forklift loader | Backhoe loader | Skid-steer loader | Telescopic forklift loader | Electric forklift

The full–automatic power shift transmission can automatically adjust the gear of loader to guarantee the running of loader under highest efficiency and most energy–saving status.

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.

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.

Excellent power matching
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.

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 griping 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”.

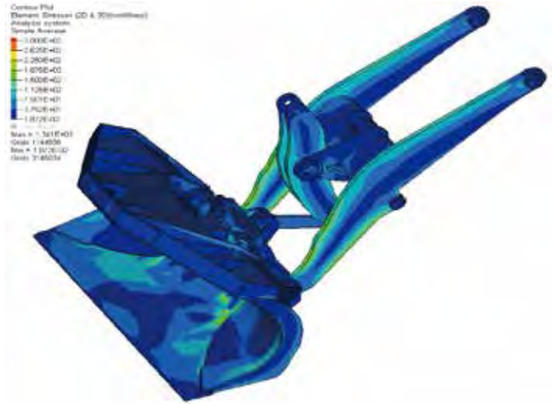
Z-Link System:
The traditional Z-link system is in-depth optimized by XCMG to achieve powerful bucket breakout force and outstanding boom lifting capability at any position. The redesigned hydraulic system realizes the simultaneous tipping and lifting motion of bucket to achieve more powerful digging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

High Reliability and Durability

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 ±12° 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.

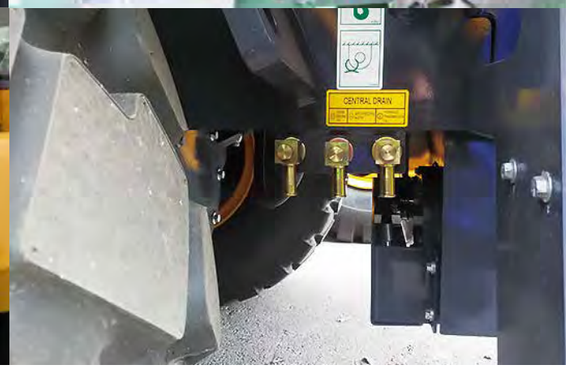
The large opening hood, easily accessible pressure measurement and lubricating points, centrally arranged electric fuse case, and the machine diagnostic interface ease the daily maintenances and repairs of the machine.

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.



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.

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.

XC938E Helps Your Success

The certified safe and comfortable ROPS/FOPS cab with ergonomic internal arrangement provides the driver with first-class operating environment.

Intelligent Hydraulic System
The load-sensing variable hydraulic system supplies on-demand power to the steering system and various working devices to reduce fuel consumption.

Z-Link System:
The traditional Z-link system is in-depth optimized by XCMG to incorporate powerful force at all positions.

Power System:
The reasonable matching between engine and transmission guarantees faster response of machine and meanwhile reduce the machine fuel consumption by 10%.

Attachments:
XCMG offers diversified attachments to meet your personalized needs and promote the productivity.

Easy Maintenances
The integral large-angle side-opening engine hood + uplifting rear hood ease the maintenances of machine by maintenance personnel.

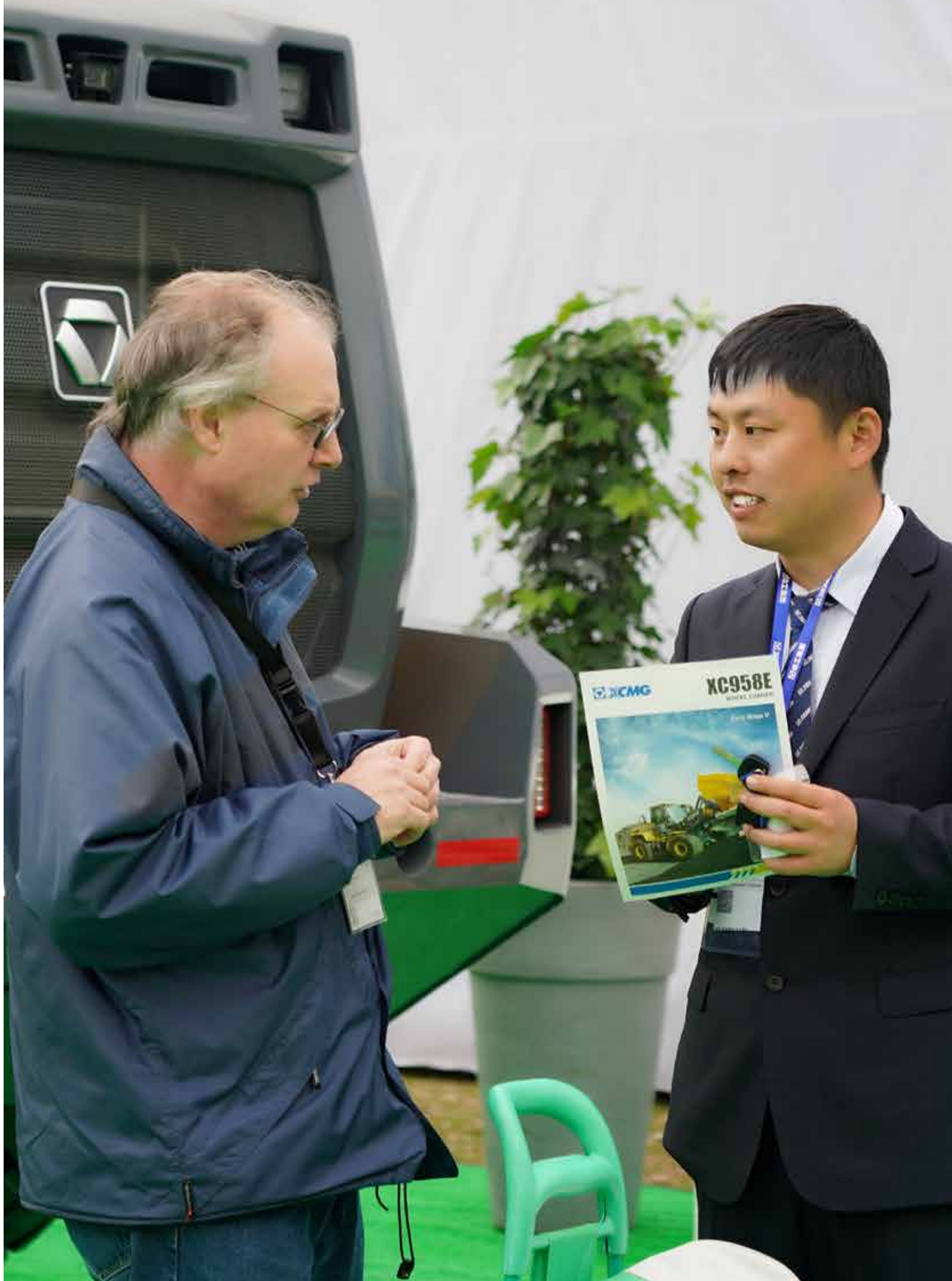
The full-automatic power shift transmission can automatically adjust the gear of loader to guarantee the running of loader under highest efficiency and most energy-saving status.

Maintenance-free full-hydraulic wet type brake axle features high safety and reliability.

Promotion of Business Value

By means of technologic innovations, XCMG realized customer value innovations to meet the needs of customers in North America and Europe. In response to the "Intelligent, high-quality, and high-performance" development trend of the loaders, XCMG formed a globalized design and R&D team to build with full efforts the new generation XC9 series loader representing the highest technologic level of XCMG loaders.

The batch export of XCMG loaders to overseas market is merely a miniature of XCMG's globalization development in recent years. In recent years, with the products covering 183 countries and regions worldwide, XCMG has retained the 1st place in the China' s construction machinery industry for 29 consecutive years and seized the 6th place in the world' s construction machinery industry. XCMG has covered 63 countries and regions along the line. XCMG loader brand export has continuously retained the 1st place of brand export. With high quality products, advanced technologies, and excellent experiences, XCMG meets the value-added needs of global customers.



Detailed Description of XCMG XC938E

Engine

This product is powered by Euro-V 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.
Air filter: The three-stage air filter guarantees the normal running of machine under diversified severe working conditions.
Radiator system: The hydraulically-driven electronic control intelligent radiator system automatically adjusts the speed depending on the heat dissipation needs of various systems, featuring high energy-conservancy and efficiency and optimal performance.

Engine		B6.7 Stage V
Maximum power at speed	r/min	2200
Total power	kW/hp	99/133
Net Power	kW/hp	97.3/130
Maximum torque at speed	r/min	1400
Maximum torque	N·m	580
Economic speed range	r/min	800-1400
Displacement	L	6.7

XCMG special engine

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.

Transmission		ZF 4WG160
Maximum vehicle speed	1st gear, km/h	7
	2st gear, km/h	13
	3st gear, km/h	23
	4st gear, km/h	36
Tire specification		17.5R25
Front/rear axle		WA1130(II)/WA2130(II)
Rear axle swing angle	°	±12

Electric System

The centralized control box (Fuse case) and the power master switch are arranged within the cab and left stand to achieve excellent dust-proof and shock-proof performance and high reliability. The connector between instrument panel harness and rear frame harness adopts sealed through-wall connector to ensure excellent water-proof and moisture-proof performance and high reliability. This machine is equipped with standard LED lamps, electric horn, front and rear wipers, and radio. The machine harnesses are arranged as per international standard and conform to IP67 water-proof standard.

Voltage	V	24
Battery	V	2×12
Battery capacity	AH	2×120
Cold start performance (Approximate)	A	850
Alternator rating	W/A	1680/70
Starter motor output power	kW	7.8
Battery	Connected to positive terminal	

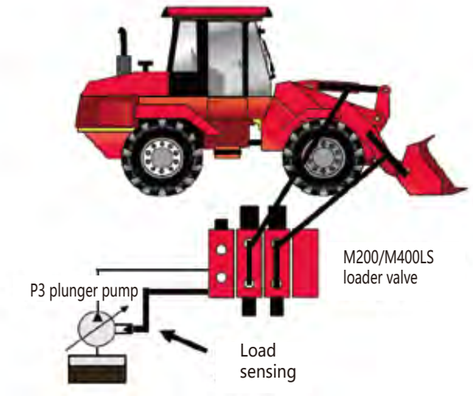
Cab System

Cab: This machine is equipped with FOPS/ROPS pressurized cab, with heating and A/C system, diaphragm molded rubber floor, and laminated glasses. 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).

Emergency exit	The window glasses can be broken by the escape hammer.	
Cab noise	dB	74
External radiation noise	dB	104
Ventilation capacity	m³/min	9
Heating capacity	kW	10
A/C	kW	5.6

Hydraulic System

System supply: One load-sensing variable displacement plunger pump always gives priority to the steering system and one gear pump supplies pressure oil to the brake system.
Valves: The main valve is a pilot control multi-way valve. Depending on the need of specific attachment, the duplex or triple multi-way valve can be installed.
Lifting function: The boom lifting limit, the bucket automatic leveling function, and the working device floating function are provided.
Cylinders: The double-acting cylinders are used for all functions.
Filters: The oil is filtered by 10um filter elements and the installation locations of the filters ease the maintenance and replacement.
Pipelines: The hydraulic pipeline adopts the ISO compliant seals. The rubber protective sleeve is added for the hose segments easily vulnerable to wear, in order to prolong the life and improve the reliability of hydraulic pipeline.



Maximum working pressure of pump 1	MPa	25
Flow	L/min	180
Engine speed	L/min	2200
Maximum working pressure of pump 2	M/Pa	15
Flow	L/min	44
Engine speed	r/min	2200
Working pressure of pilot system	MPa	3.5
Cycle time		
Lifting	s	5.5
Tilting	s	1.3
Lowering	s	3.5
Total cycle time	s	10.3

Boom System

The lifting system is in classic Z-shaped 6-link structure, featuring simple structure, high firmness and reliability, higher breakout force output, and convenient daily maintenances.

Boom cylinder	Unit	2
Cylinder bore	mm	110
Diameter of piston rod	mm	65
Stroke	mm	810
Bucket cylinder		1
Cylinder bore	mm	130
Diameter of piston rod	mm	80
Stroke	mm	530

Steering System

The load-sensing full-hydraulic articulate steering features handy and flexible operations.
System supply: The load-sensing hydraulic system gives priority to steering system.
Steering cylinders: Two double-acting cylinders.

Steering cylinder	Unit	2
Cylinder bore	mm	80
Diameter of piston rod	mm	45
Stroke	mm	465
Working pressure	MPa	20
Maximum articulated angle	±°	40

Brake System

Brake system: Brake system with power cutoff function
Service brake: Brake system with nitrogen charged accumulator. The drive incorporates full-sealed circulating oil cooled wet type brake, in which the power can be cut off during the braking.
Parking brake: Caliper disc type. With spring braking method and electronically controlled hydraulic release method, it can be operated by the switch near the control box.

Number of brake disc for each front/rear wheel	1/1
Accumulator	2×2L

Service

The large opening hood, easily accessible pressure measurement and lubricating points, centrally arranged electric fuse case, and the machine diagnostic interface ease the daily maintenances and repairs of the machine.

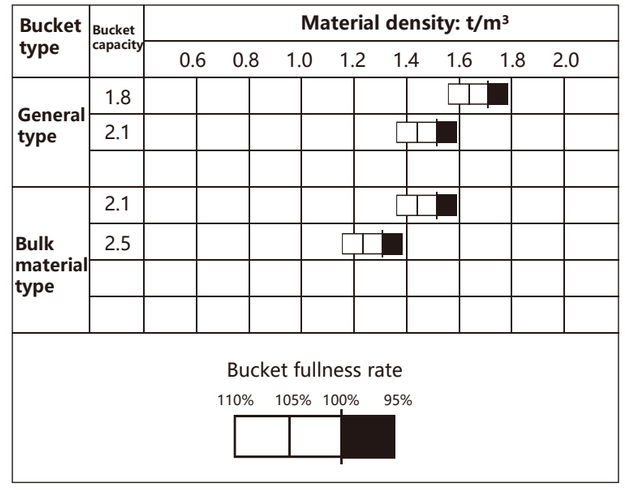
Fuel tank	L	240
Engine Coolant	L	50
Engine oil	L	20
Hydraulic oil tank	L	160
Transmission oil	L	40
Drive axle oil	L	2×55

Technical Specification

Bucket Selection Table

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. The standard boom configuration is used for the following examples.
For instance: Gravel: Bucket fullness coefficient at ~105% and the density at 1.6 t/m³.
Result: 1.8m³ The bucket is actually loaded with 1.9 m³material.
To guarantee the optimal stability, please ensure to reference to the Bucket Selection Table.

Material	Bucket fullness coefficient	Material density	Bucket capacity
Soil/clay	~100	~1.7	1.8
Gravel	≤95	~1.8	1.8
Aggregate	≤95	~1.6	2.1
Rock	≤95	~1.8	1.8



		General type		Bulk material type	
17.5R25 L3 tires					
Bucket capacity	m³	1.8	1.8	2.1	2.5
Dumping load (Full steering)	kg	6500	6500	6300	6000
Breakout force	kN	135	135	130	120
A	mm	7298	7220	7220	7320
H	mm	2924	2924	2853	2782
H1	mm	2817	2924	2853	2782
L	mm	4869	4869	4967	5066
M	mm	1010	1010	1081	1151
M1	mm	1171	1010	1081	1151
V	mm	2482	2482	2470	2670
a1	mm	6081	6018	6012	6145
Operating weight	kg	11150	11150	11310	11440

Optional Attachments


Timber clamp I (Paired-tooth)


Timber clamp II (Staggered-tooth)


V-shaped clamp


Pipe grab


Bale grab


Snow plough


Sliding forks

Optional Attachments

Item	Timber clamp (Paired-tooth)	Timber clamp (Staggered-tooth)	V-shaped clamp	Interchangeable paired/ staggered type	Bale grab	Sliding forks	Snow plough (Double cylinder)	Unit
Dumping height	2980	2819	2784	2910	3025	3000		mm
Dumping reach	1410	1222	1134	1630	2028	1610		mm
Leveling height						3500		mm
Maximum dumping	35	45	45	30	20	25		°
Maximum opening dimension	1616	1644	1576	1410	2800			mm
Minimum clamping circle diameter	830	590	580	50	1045			mm
Maximum snow removing width							3018	mm
Horizontal rotating angle							±30	°
Bucket retraction angle						23		°
Attachment length	1460	1460	1420	1780	1950	1730	1365	mm
Attachment width	1875	1820	1650	2026	2198	2015	3018	mm
Attachment height	1520	1500	1750	1330	1740	890	1120	mm
Fork length						1050		mm

XC938E 20.5R25 L3 tires		
Category	Unit	Standard boom
B	mm	6306
C	mm	3000
D	mm	348
F	mm	3270
J	mm	3579
K	mm	3839
O	°	54
P	°	45
R	°	43
R1	°	46
T	mm	40
X	mm	1850
Y	mm	2291
a2	mm	5435
a3	mm	2984
a4	±°	40

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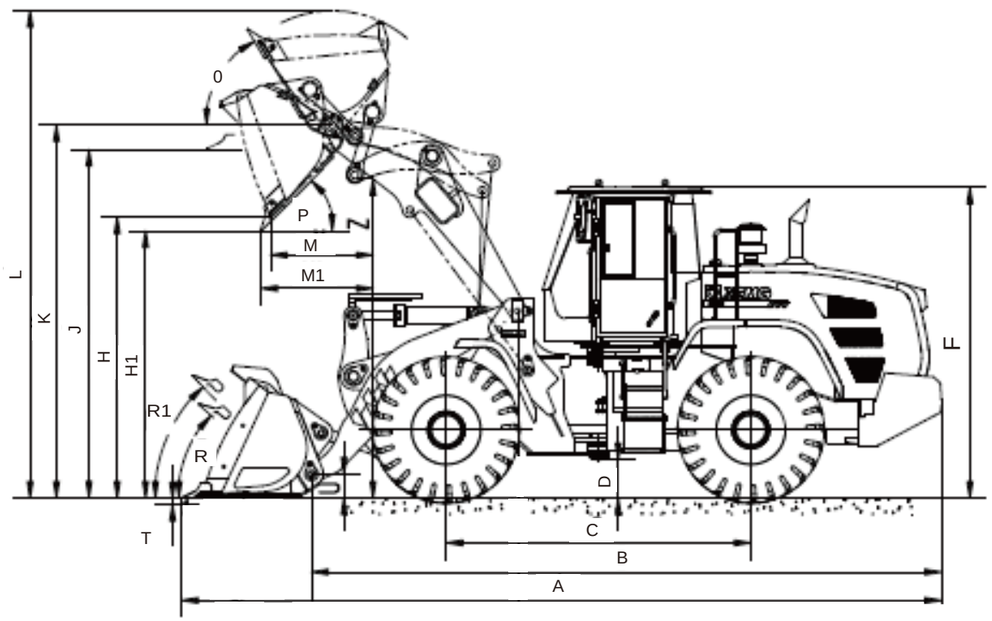

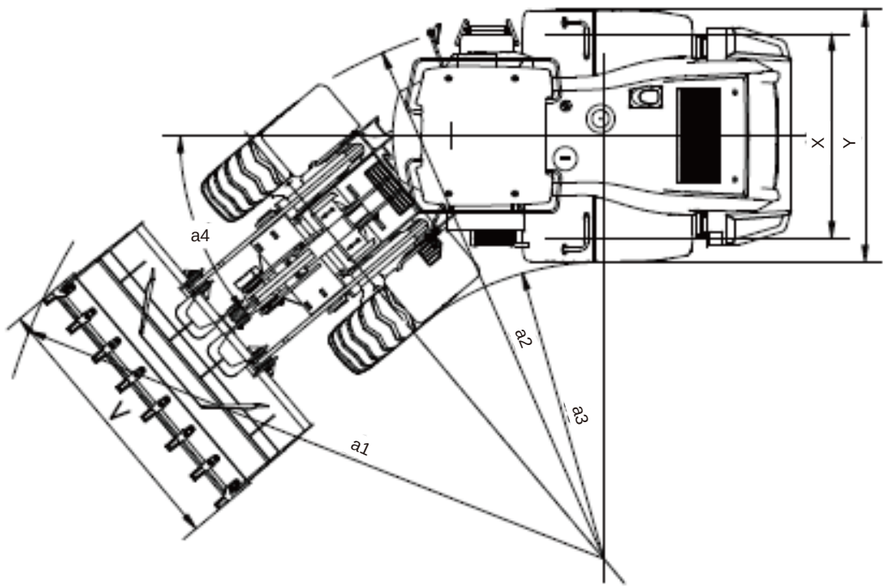

Standard Configuration

Power System

- Automatic power shift
- Forward/reverse gear switchover controlled by hydraulic joystick
- Glass shield of transmission oil level indicator
- Differential: Limited-slip front differential
- Conventional rear differential

Engine

- Exhaust heat insulator
- Intake preheater
- Fuel filter
- Fuel filler filter screen
- Reversible cooling fan
- Centrifugal air prefilter
- Three-stage air filter, prefilter, and primary and secondary filters
- Fuel prefilter with water separator
- Glass shield of coolant level indicator

Level Warning

- Fuel level

Electric System

- Fuel Gauge
- Hourmeter
- Electric horn
- Battery cutoff switch
- 24V/70V alternator
- 24V pre-wiring system for optional accessories

Instrument panel

- Fuel level
- Transmission temperature
- Coolant Temperature
- Instrument lamp

Warning and Display Information

- Engine coolant temperature
- Engine oil pressure lamp
- Transmission oil temperature
- Braking pressure (Only low pressure warning)
- Applied parking brake (Only display)

Lamp

- Double LED headlamp with high beam and low beam
- Double brake lamp and rear lamp
- Turn signal lamp with hazard warning lamp function
- LED working lamps (4 front and 2 rear lamps)
- Reversing warning
- Rotary warning lamp

Warning and Indicator Lamps

- Battery charging
- Parking brake

Cab

- ROPS (ISO 3471),FOPS(ISO 3449)
- Sound insulation lining
- Cigarette lighter socket, 24V power socket
- Lockable door
- Cab heater and defroster (Heater air vents) with fresh air inlet
- Fresh air inlet with two filters
- Internal lamps
- Interior rearview mirror
- Double exterior rearview mirror
- Right sliding window
- Colored safety glass
- Adjustable steering wheel
- Storage box
- File pocket
- Sun visor
- Front and rear windscreen washers
- Front and rear windscreen wipers
- Radio with USB port
- Steering wheel knobs
- Radio installation package with 11A, 12V power socket

Hydraulic System

- Pilot control main valve

Variable Displacement Axial Plunger Pump for Following Systems

- Working hydraulic system
- Steering System
- Boom lifting limit
- Bucket automatic leveling
- Double-acting hydraulic cylinder
- Hydraulic oil level indicator
- Hydraulic oil cooler

Brake System

- Double-circuit brake
- Electronically controlled hydraulic parking brake

Maintenances

- Remote drainage of engine oil
- Remote filling of transmission oil

Pressure Checking Connections

- Transmission and hydraulic system quick connectors
- Lockable toolbox

External Devices

- Front and rear fenders
- Cab silicone oil shock absorber
- Engine and transmission rubber dampers
- Easily openable engine hood
- Front and rear frame lock handles

Vandal Proof Lock for Following Parts

- Engine compartment
- Radiator grille

Other

- Driver's tool kit

Optional configuration

Electric System

- License plate support with lamp
- Rearview camera with color display
- Reversing flashing warning lamp
- Standby power socket

Maintenances

- Automatic lubrication system
- Oil sampling valve
- Lubrication system grease filling pump

Hydraulic System

- Anti-bump stabilization module
- Pressure relief safety cap for hydraulic oil tank

Engine

- Oil bath type air prefilter
- High-end fuel filter
- Quick refueling
- Turbocharger delayer

Bucket

- General type
- Quick change attachment
- Light material type

Cab

- ISRI air-cushioned type, with high backrest
- Seat with heater
- RESPA pressurizing and filtration system

Fire Extinguishing System

- JSG Muster II automatic fire extinguishing system

- Tires
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*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.