

# XC948E/XC958E/XC968E

XCMG Wheel Loader





# 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

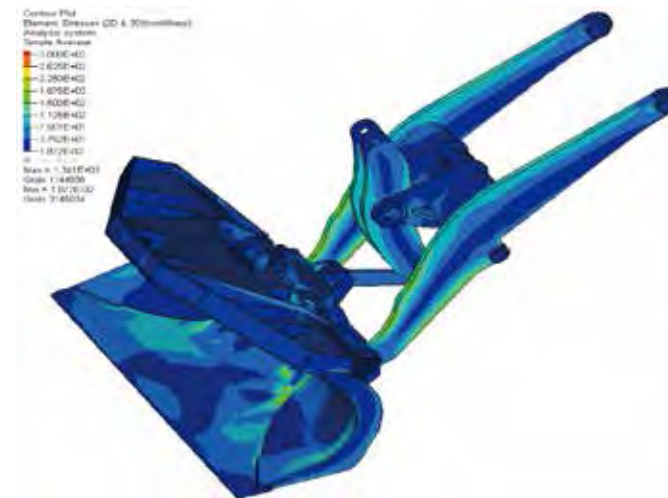




# High Reliability and Durability

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-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.



## 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, limited slip differential for front axle, and fixed front axle and central swing rear axle installation.



**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.



# 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.



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.





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-V compliant (Optional Euro-III 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.



**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.

**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



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).



# 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.



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.



## 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.



# XC948E/XC958E/XC968E

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

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

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

**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.

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

**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.

The maintenance-free full-hydraulic wet type brake axle incorporates the automatic limited-slip differential function to sufficiently play the powerful insertion force of the machine.





# Detailed Description of XCMG XC948E/958E/968E

## 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.

XC948E		
Engine	B6.7 Stage V	
Rated power at speed	r/min	2200
Rated power	kW/hp	149/200
Maximum torque at speed	r/min	1300
Maximum torque	N·m	900
Economic speed range	r/min	800-1800
Displacement	L	6.7

XC958E		
Engine	B6.7 Stage V	
Rated power at speed	r/min	2200
Rated power	kW/hp	168/225
Maximum torque at speed	r/min	1300
Maximum torque	N·m	1186
Economic speed range	r/min	800-1800
Displacement	L	6.7

## 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.

XC948E		
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	

XC958E		
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	



XC968E		
Engine	QS8.3 Stage III	
Rated power at speed	r/min	2200
Rated power	kW/hp	179/240
Maximum torque at speed	r/min	1500
Maximum torque	N·m	1085
Economic speed range	r/min	800-1800
Displacement	L	8.3



XC968E		
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	9
Battery	Connected to positive terminal	

## Power System

Transmission: ZF 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 front axle is equipped with limited slip differential and built-in wet brake to prevent environmental pollution. The maintenance-free brake pads guarantee ore stable and reliable braking performance.

XC948E		
Transmission	ZF 4BP190	
Maximum vehicle speed	1st gear, km/h	7
	2st gear, km/h	13
	3st gear, km/h	22
	4st gear, km/h	34
Tire specification	20 .5R25	
Front/rear axle (XCMG)	WA1180(V)/WA2181	
Rear axle swing angle	°	±12

XC958E		
Transmission	ZF 4BP210	
Maximum vehicle speed	1st gear, km/h	6.5
	2st gear, km/h	11
	3st gear, km/h	24
	4st gear, km/h	38
Tire specification	23 .5R25	
Front/rear axle (XCMG)	WA1180(V)/WA2181	
Rear axle swing angle	°	±12

## Cab System

Cab: This machine is equipped with FOPS/ROPS pressurized cab, with heating and A/C system, 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).

XC948E		
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

XC958E		
Emergency exit	The window glasses can be broken by the escape hammer.	
Cab noise	dB	76
External radiation noise	dB	102
Ventilation capacity	m³/min	9
Heating capacity	kW	10
A/C	kW	5.6



XC968E		
Transmission	ZF 4BP230	
Maximum vehicle speed	1st gear, km/h	7
	2st gear, km/h	13
	3st gear, km/h	28
	4st gear, km/h	38
Tire specification	23 .5R25	
Front/rear axle (XCMG)	WA1180(V)/WA2181	
Rear axle swing angle	°	±12



XC968E		
Emergency exit	The window glasses can be broken by the escape hammer.	
Cab noise	dB	77
External radiation noise	dB	104
Ventilation capacity	m³/min	9
Heating capacity	kW	10
A/C	kW	5.6



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.

XC948E		
Boom cylinder		2
Cylinder bore	mm	125
Diameter of piston rod	mm	70
Stroke	mm	800
Bucket cylinder		1
Cylinder bore	mm	180
Diameter of piston rod	mm	100
Stroke	mm	603

XC958E		
Boom cylinder		2
Cylinder bore	mm	160
Diameter of piston rod	mm	90
Stroke	mm	840
Bucket cylinder		1
Cylinder bore	mm	180
Diameter of piston rod	mm	100
Stroke	mm	585

Steering System

The load-sensing full-hydraulic articulate steering features handy and flexible operations. The double mechanical limits (Flexible and rigid limits) are applied for the steering limits to reduce the steering impact and improve the operating comfort of the driver and the reliability of the machine.  
System supply: The load-sensing hydraulic system gives priority to steering system.  
Steering cylinders: Two double-acting cylinders.

XC948E		
Steering cylinder		2
Cylinder bore	mm	90
Diameter of piston rod	mm	50
Stroke	mm	375
Working pressure	MPa	18
Maximum articulated angle	±°	38

XC958E		
Steering cylinder		2
Cylinder bore	mm	90
Diameter of piston rod	mm	50
Stroke	mm	540
Working pressure	MPa	18
Maximum articulated angle	±°	40



XC968E		
Boom cylinder		2
Cylinder bore	mm	170
Diameter of piston rod	mm	100
Stroke	mm	828
Bucket cylinder		1
Cylinder bore	mm	180
Diameter of piston rod	mm	100
Stroke	mm	603



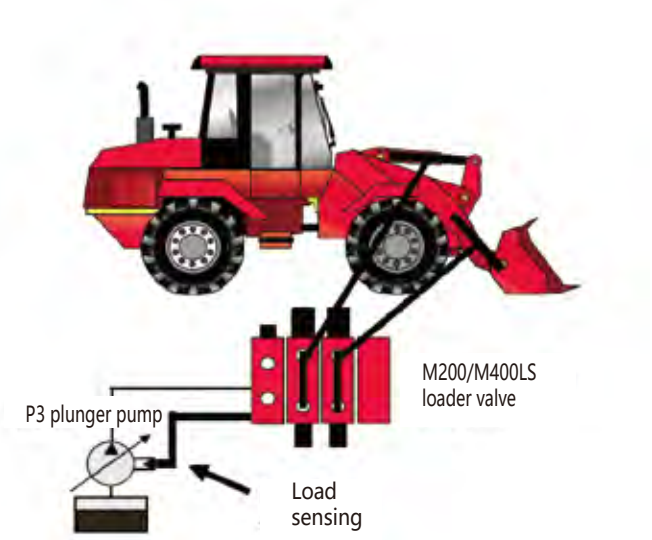
XC968E		
Steering cylinder		2
Cylinder bore	mm	90
Diameter of piston rod	mm	45
Stroke	mm	540
Working pressure	MPa	18
Maximum articulated angle	±°	40

Hydraulic System

load-sensing variable displacement plunger pump always gives priority to the steering 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.

XC948E		
Maximum working pressure of pump 1	MPa	20.5
Flow	L/min	242
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	5.6
Tilting	s	1
Lowering	s	3.5
Total cycle time	s	10.3

XC958E		
Maximum working pressure of pump 1	MPa	25
Flow	L/min	198
Engine speed	L/min	2200
Maximum working pressure of pump 2	M/Pa	19.5
Flow	L/min	165
Engine speed	r/min	2200
Working pressure of pilot system	MPa	3.5
Cycle time		
Lifting	s	4.89
Tilting	s	0.82
Lowering	s	4.28
Total cycle time	s	9.99



XC968E		
Maximum working pressure of pump 1	MPa	23
Flow	L/min	220
Engine speed	L/min	2200
Maximum working pressure of pump 2	M/Pa	23
Flow	L/min	176
Engine speed	r/min	2200
Working pressure of pilot system	MPa	3.5
Cycle time		
Lifting	s	5.51
Tilting	s	0.82
Lowering	s	2.86
Total cycle time	s	≤10



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.

XC948E/XC958E/XC968E	
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.

XC948E		
Fuel tank	L	270
Engine Coolant	L	45
Engine oil	L	20
Hydraulic oil tank	L	160
Transmission oil	L	40
Drive axle oil	L	2×55

XC958E		
Fuel tank	L	300
Engine Coolant	L	45
Engine oil	L	20
Hydraulic oil tank	L	190
Transmission oil	L	55
Drive axle oil	L	2×34



XC968E			
Fuel tank	L		300
Engine Coolant	L		45
Engine oil	L		20
Hydraulic oil tank	L		190
Transmission oil	L		55
Drive axle oil	Front	L	36
	Back	L	34

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.

XC948E			
Material	Bucket fullness coefficient	Material density	Bucket capacity
Soil/clay	~100	~1.7	2.4
Gravel	≤100	~1.8	2.4
Aggregate	≤95	~1.6	2.7
Rock	≤95	~1.6	2.4

Bucket type	Bucket capacity	Material density: t/m³								
		0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
General type	2.4							<div><div></div><div></div><div></div></div>		
Bulk material type	2.7					<div><div></div><div></div><div></div></div>				
<div>Bucket fullness rate</div> <div>110%105%100%95%</div> <div><div></div><div></div><div></div></div>										




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.

XC958E/XC968E






Material	Bucket fullness coefficient	Material density	Bucket capacity
Soil/clay	~110	~1.7	4.0
Gravel	~105	~1.8	3.5
Aggregate	~100	~1.6	4.5
Rock	≤100	~1.8	3.0

Bucket type	Bucket capacity	Material density: t/m³								
		0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
General type	3.0								<div><div></div><div></div><div></div></div>	
	3.5							<div><div></div><div></div><div></div></div>		
	4.0						<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>		
	4.5					<div><div></div><div></div><div></div></div>				
Bulk material type	3.5							<div><div></div><div></div><div></div></div>		
	4.0						<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>		
	4.5					<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>			
	5.0				<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>				
<div>Bucket fullness rate</div> <div>110%105%100%95%</div> <div><div></div><div></div><div></div></div>										

XC948E








General type				Bulk material type		
						
20.5R25tires						
Bucket capacity	m³	2.4	2.4	2.7		
Dumping load (Full steering)	kg	8700	8700	8660		
Breakout force	kN	140	140	155		
A	mm	7875	8001	7737		
H	mm	2841	2841	2800		
H1	mm	2761	2841	2800		
L	mm	6073	6107	6107		
M	mm	1010	1010	1130		
M1	mm	1100	1010	1130		
V	mm	2580	2580	2710		
a1	mm	6529	6385	6440		
Operating weight	kg	15300	15340	15340		

XC958E

Rocktype			General type		Bulk material type		
							
23.5R25tires							
Bucket capacity	m³	2.5	3.0	3.1	3.5	4.0	4.5
Dumping load (Full steering)	kg	12650	12570	12815	12610	12270	12250
Breakout force	kN	177	180	182	157	157	152
A	mm	8421	8386	8336	8361	8481	8516
H	mm	2900	2920	3100	-	-	-
H1	mm	-	-	-	2980	2910	2870
L	mm	5610	5580	5580	5490	5650	5650
M	mm	1260	1230	1100	-	-	-
M1	mm	-	-	-	1210	1210	1250
V	mm	3000	3035	3000	3200	3200	3200
a1	mm	6840	6820	6800	6810	6850	6860
Operating weight	kg	19635	19445	19200	19405	19745	19765



XC968E

		Rocktype		General type		Bulk material type			
23.5R25tires									
Bucket capacity	m³	3	3.5	4	4.5	3.5	4	4.5	5
Dumping load	kg	13195	13573	13348	13406	13603	13648	13706	12999
A	mm	8600	8630	8780	8830	8450	8600	8650	8510
H	mm	3166	3070	2887	2854	3178	3038	3005	3085
M	mm	1239	1130	1482	1519	1205	1379	1416	1327
V	mm	3016	3016	3200	3200	3016	3200	3200	3500
a1. Minimum turning radius	mm	6850	6963	7108	7128	6885	7030	7050	7176
Operating weight	Kg	21870	21500	21650	21670	21600	21840	21800	22100



# 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

## 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
- Side-dumping type
- Quick change attachment
- Light material type

## Cab

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

## Fire Extinguishing System

- JSG Muster II automatic fire extinguishing system
- Tires

XC948E	XC958E	XC968E
20.5–25–16PR	23.5–25–16PR	23.5–25–20PR
20.5–25 (L3)	23.5–25 (L3)	23.5–25–24PR
20.5R25(★★)	23.5R25(★★)	

\*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.