

Hydraulic Excavator XE950G



- Bucket Capacity (yd³): 8.1
- Operation Weight (lb): 200621
- Output power (HP/rpm): 600/2000

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INTRODUCTION OF XCMG

XCMG is the leading construction equipment manufacture in China and is the third largest equipment manufacture in the world. In addition, XCMG ranks 305th among the worlds top brands. XCMG builds 16 categories of equipment including cranes, excavators, concrete production and transporting, earth moving, mining, and road reclamation and paving. XCMG also produces many of its own hydraulic, power transmission, and electronic control systems components. XCMG is the top manufacture in the world of cranes, foundation machines and concrete production and distribution equipment. XCMG's research and development groups have accumulated more than 9000 patents in China and 130 international patents. There are R&D centers and manufacturing facilitates in 10 countries including Germany, the United States, Brazil and India. The manufacturing facility in Brazil has become a model of economic cooperation between China and Brazil. XCMG exports equipment to 187 countries around the world.

More energy-conservation and environmental protection

XE950G/XE950GA: It adopts imported Perkins (2806J/ 2806EA) electronic control, direct injection, 4-stroke, water cooling, turbo-charging, air-to-air intercooling and six-cylinder high-torque low-speed engine.

The engine has the advantages of high reliability and high adaptability. Its emission meets the standards of China's Stage IV, North America Tier 4F and European Stage V. It is specially designed and manufactured for the working conditions of construction machinery.

More efficient return

The standard 6.2m³ heavy-duty bucket has higher operating efficiency;

Large torque, large displacement engine and high pressure hydraulic system are more competent for heavy load operation in mining area;

XEICS system with independent intellectual property rights can accurately debug the hydraulic and power matching, and improve the operation efficiency by 12%.

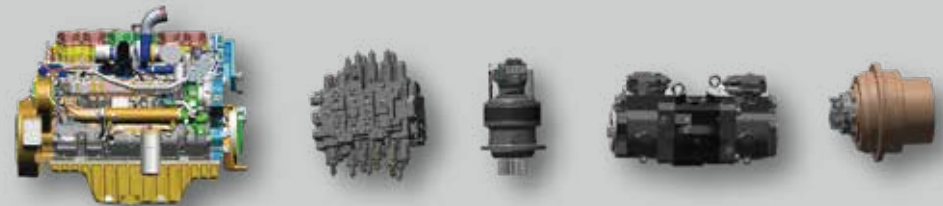




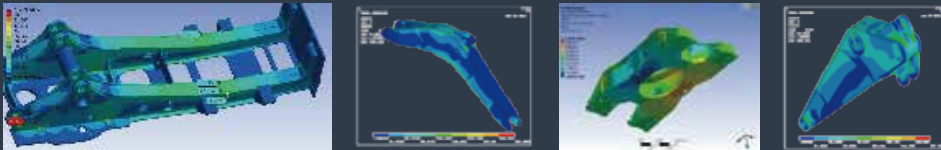
More reliable and durable



- The service life of key hydraulic components such as pumps, valves and motors can reach 30000 hours;
- The optional explosion-proof valve can prevent the working device from falling suddenly due to the damage of the pipeline, so that the safety is enhanced.
- The use of mining engines, reinforced cylinder block, camshaft, crankshaft and connecting rod, greatly extend the overhaul time; the electronically controlled unit pump fuel system adapted to the Chinese market greatly reduces the engine failure rate, improves the dust-proof ability and greatly reduces the risk of electrical parts failure and engine cylinder scratching.
- The key hydraulic components have been optimized. It uses larger diameter main valve, rotary reducer with an integrated output mechanism and a larger walking reducer, so that the machine can obtain greater hydraulic energy, greater rotary and walking driving force, more suitable for harsh mine construction.

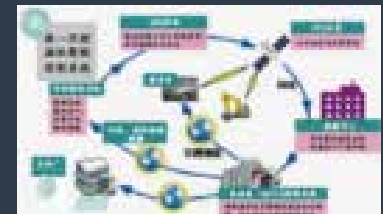


- The thickness of the weak parts of the rotary platform, boom and bucket rod is increased, the bearing capacity is increased by 50% compared with the previous generation products, and the bending section modulus is greatly improved; the average stress of the newly designed structural parts is reduced by 30% compared with the previous generation products after CAE design analysis and rigorous impact measurement; the four-wheel one-belt of the vehicle is used to strengthen the bearing capacity of longitudinal beam and H-frame, strengthen the caterpillar, support roller, etc., and increase the load-bearing capacity by 30%.



- The advanced XEICS XCMG excavator intelligent management system adopts CAN bus communication and Internet of Things technology, integrates the main control system, engine ECM, monitoring system, control panel, GPS cloud control system and field diagnosis system to realize digital sharing of machine information and improve the intelligent level of products. Convenient mobile APP micro-service can grasp the location, operation status, working time, fuel consumption and maintenance cycle of excavator anytime and anywhere.

- Full analysis of fault code: all fault codes are automatically parsed, the fault content is clear at a glance, and the tedious query manual is completely abandoned;
- Accessory management system: with this system, the operator can pre-select the required mode through the monitor in the cab to ensure the availability of various accessories.
- Rich operation modes: in addition to the standard ISO backhoe operation mode, the user can customize the operation mode to meet the operation habits of different users;
- Additional functions are more abundant: reverse dust removal fan, rear view image, maintenance reminder and other practical functions.



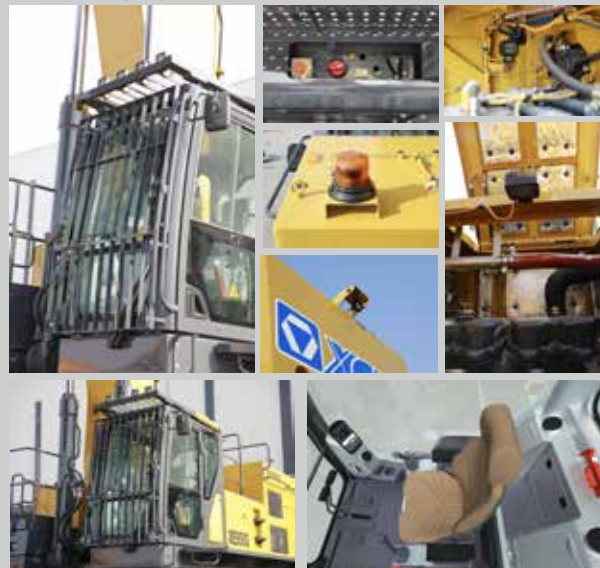
More intelligent management and control



- The autonomous controller collects the altitude of vehicle position and engine intake pressure, automatically determines the database, and prompts the operator to select plateau mode on the display. It can intelligently match the power of the hydraulic pump and the engine, so as to ensure the flow output of the pump, reduce the engine speed drop ratio, prevent black smoke and engine stall, and ensure the working efficiency of the excavator.
- It can intelligently realize remote unmanned driving: Based on 5G, it can realize high-speed and low delay, break the limitation of time and space, restore the real scene, and realize the remote control of mining hydraulic excavator.

More comfortable and safe

- According to the characteristics of long working time and large vibration in mine operation, air suspension seat is selected. By adjusting the synchronous height of armrest and seat, the driver's fatigue is reduced and the comfort is improved.
- The cab adopts a newly designed positive pressure cab, the sealing performance is improved by 70% compared with the previous generation. It can effectively isolate dust and greatly reduce the noise in the cab. At the same time, it expands the space of the cab and improves comfort.
- In view of the mine working conditions, the safety of the strengthened cab is 35% higher than that of the ordinary cab. The standard rear-view camera, alarm light, top protection net, front protection net, emergency stop switch, maintenance lamp, etc., and 360 ° panoramic image are selected to further improve the safety of mining operation.



Convenient repair and maintenance



- The central maintenance channel can provide more convenient maintenance;
- You can directly enter the radiator compartment, air filter compartment, and pump room through the left and right channels for inspection;
- Centralized maintenance design is more convenient for maintenance;
- The easily accessible filling port is more convenient for maintenance.

Main Specifications

XE950G

Operation Weight	91000 kg	200621 lb
Bucket Capacity	6.2 m ³	8.1 yd ³

Engine

XE950G

Model	2806J	2806J
Direct injection	✓	✓
Four strokes	✓	✓
Water cooling	✓	✓
Turbo-charging	✓	✓
Air to air intercooler	✓	✓
No. of cylinders	6	6
Output power	447.5/2000kW/rpm	447.5/2000kW/rpm
Torque/speed	2811/1300N.m/rpm	2811/1300N.m/rpm
Displacement	18.1L	1105in ³

Main performance

XE950G

Travel speed (H/L)	4.0/2.4 km/h	2.5/1.5 mile/h
Rotating speed	6.2 r/min	6.2 r/min
Gradeability	35 °	35 °
Ground pressure	124 kPa	124 kPa
Bucket digging force	463 kN	463 kN
Arm digging force	370 kN	370 kN
Maximum traction	636 kN	636 kN

Hydraulic system

XE950G

Main pump	2 Plunger pumps	2 Plunger pumps
Rated flow of main pump	2 × 476 L/min	105 gal/min
Pressure of prime valve	35 MPa	35 MPa
Pressure of travel system	35 MPa	35 MPa
Pressure of swing system	29 MPa	29 MPa
Pressure of pilot system	3.9 MPa	3.9 MPa

Oil capacity

XE950G

Fuel tank capacity	1200 L	264 gal
Hydraulic tank capacity	540 L	119 gal
Engine oil capacity	64 L	14 gal

Appearance size

XE950G

A Overall length	13655 mm	538 in
B Overall width	4545 mm	179 in
C Overall height	4980 mm	196 in
D Width of platform	3490 mm	137 in
E Length of crawler	6365 mm	251 in
F Overall width of chassis	4150 mm	163 in
G Width of crawler	650 mm	26 in
H Track length on ground	5090 mm	200 in
I Crawler gauge	3500 mm	138 in
J Clearance under counterweight	1660 mm	65 in
K Min. ground clearance	870 mm	34 in
L Min. tail swing radius	4700 mm	185 in
M Height of crawler	1487 mm	59 in

Working scope

XE950G

A Max. digging height	12680 mm	499 in
B Max. dumping height	7990 mm	315 in
C Max. digging depth	7170 mm	282 in
D Excavation depth of 8 feet level	7030 mm	277 in
E Max. vertical wall digging depth	4550 mm	179 in
F Max. digging reach	12660 mm	498 in
G Min. swing radius	5020 mm	198 in

Standard

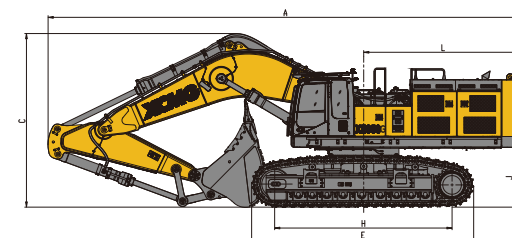
XE950G

Length of Boom	7250 mm	285 in
Length of Arm	2925 mm	115 in
Bucket Capacity	6.2 m ³	8.1 yd ³

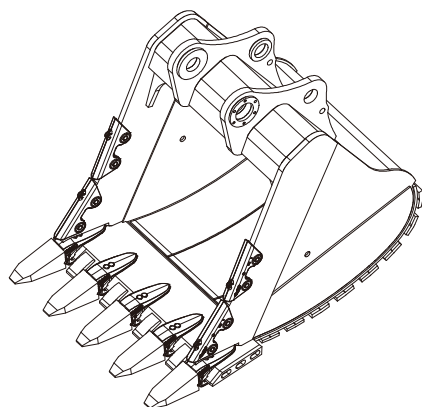
Optional configuration

XE950G

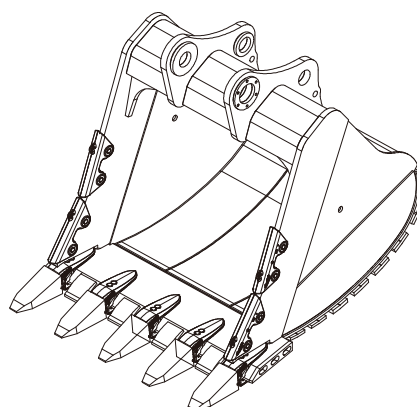
Length of arm	3400 mm	134 in
Bucket capacity	4.6 (Rock) m ³	6.0 yd ³
	5.4 (Rock) m ³	7.1 yd ³
	6.2 (Rock) m ³	8.1 yd ³
	6.7 (Strength) m ³	8.8 yd ³
	7.3 (Soil)	9.5 yd ³
-40 °C low temperature configuration Coolant heater		



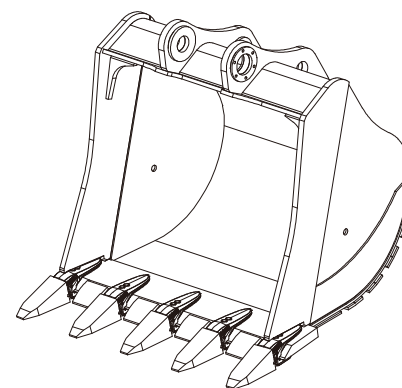
Configuration of bucket



5.4m³



6.2m³



6.7m³

Configuration of bucket

XE950G

Bucket type	Bucket capacity	Filling rate	Boom: 7250 mm Bucket rod: 2925 mm	Chassis type
	m ³	%		
Light load excavation	7.3	100	○	Extended chassis
Common excavation	6.7	100	⊙	Extended chassis
Heavy load excavation	6.2	90	□	Extended chassis
	5.4	90	◻	Extended chassis
	4.6	90	■	Extended chassis

■: Suitable for the material which density is less than 2100kg/m³
 ◻: Suitable for the material which density is less than 1800kg/m³
 ⊙: Suitable for the material which density is less than 1500kg/m³
 ○: Suitable for the material which density is less than 1200kg/m³
 △: Suitable for the material which density is less than 900kg/m³

›Standard configuration

Engine

Model of engine: 2806J–E18TA
Emission level: stage V, Tier 4F
Oil–water seperator with water level indication sensor
Automatic engine speed control
Operation capacity at the highest altitude of 5000m
Radial seal air filter
Cooling componnets of 50° C high temperature environment
Cold start–up capability at –20° C
Ultra–low temperature start–up capability at –35° C
Oil and water quick discharge device
Engine low temperature heating system: Coolant heater(fuel type)
Two optional modes: overload mode and normal mode
Fast fill fuel system
Fast oil filling system
Fuel breather valve
Air differential pressure indicator
Automatic idle speed
95A AC engine
9.5 kW start motor
Oil sampling system

Hydraulic system

Electric control main valve
Boom/arm flow regeneration
Reverse rotary damping valve
Automatic rotary parking brake
Hydraulic buffering valve
Travel straight hydraulic circuits
Boom priority valve
Rotary logic valve
Hydraulic oil Autran 4 10
Hydraulic line: quartering hammer
Hydraulic line:pipeline of explosion–proof valve and cylinder
Operating modes switch
Hydraulic oil Spirax S4 CX 10W/Mobiltrans HD 10W
Rotary anti–sway valve
Spare valve disc
Instrument pressure monitor
Fast hydraulic oil filling system

Electrical system

Battery (4 ×950 CCA)
Shutdown switch of battery
Travel alarm
Boom working lamp at left and right side
Working lamp installed on the right side of storage box
Lamp inside the cab
Front working lamp installed on the top of cab
Rear working lamp installed on the top of cab
Pump room lights
Power cabin LED maintenance lamp

Cab and interior trimming

Pressurized cab
Color LCD touch screen display with high resolution (600 × 1024) that can display warning information, etc.
Completely adjustable air suspension seat
Adjustable armrest
Safety belt (51 mm [2"] width)
Openable front windscreen glass equipped with auxiliary equipment
Front windscreen window cut with ratio of 70/30
Double–layer laminated windshield and other tempered Windows
Slidable upper window of door
Double–way air–out air conditioner with defroster(automatic)(pressurized)
Control handle
Travel control pedal with removable manual control lever
Two stereo speakers
Coat and hat hook
Washable floor mat
Fire extinguisher
Air conditioner system
High/low speed shift gears
24V Cigar lighter
12V Cigar lighter
Camera
Reserved switch for auxiliary equipment
Shade curtain
Top skylight
Wiper
Cup holder/file packet
Heating and cooling storage box
Wireless radio

Chassis sytem and protective guard

Underframe bail
Protection suite: close plate at the bottom of chassis, close plate of travel motor
650 mm (24") Double rib track plate
750 mm (28") Double rib track plate
900 mm (31") Double rib track plate
Extended chassis
Overall length crawler guardrail device
Lubricating grease tensioning device

Working device

Boom 6.6m
Arm 2.9m
4.2m3 Rock bucket
2.8m3 Rock bucket
3.1m3 Rock bucket
3.5m3 Rock bucket
3.8m3 Rock bucket
Quartering hammer
Screen–type bucket
Strengthen rock boom

Security and protection configuration

Battery (4 ×950 CCA)
95 A Alternator
Rearview mirror kit
Signal/alarm horn
Engine emergency stop switch accessible from ground level
Emergency stop switch
Automatic fire suppression system
Door lock of cab and chambers
Spacer plate between engine and oil pump chamber
Emergency exit of rear window
Holding valve of boom and arm
Explosion–proof valve of boom and arm pipeline
Overheat alarm
Safety rail and pedal
Rotating alarm light
Anti–skid plate/anti–slip tip
Hydraulic safety lock lever
Emergency escape hammer
Rearview monitor camera
360° panoramic image system
Fall Off Proteciton Structure(FOPS)
Front upper protective guard of cab
Front bottom protective guard of cab
Behavior monitoring system

Repair and maintenance

Electric lubrication system(Import、Lincoln)
Electric lubrication system(Domestic)
Arm concentration
Independent cooling module with reverse blow function
Oil sampling port

Control technology

XEICS intelligent control system
Remote driving system
EST Diagnostic equipment
Bluetooth
Diagnostic recorder
Data link socket

Counterweight

11.3t Conuterweight

Optimum Services , XCMG Guaranteed



XCMG approved attachments



Genuine parts



Financial solutions



Maintenance contract



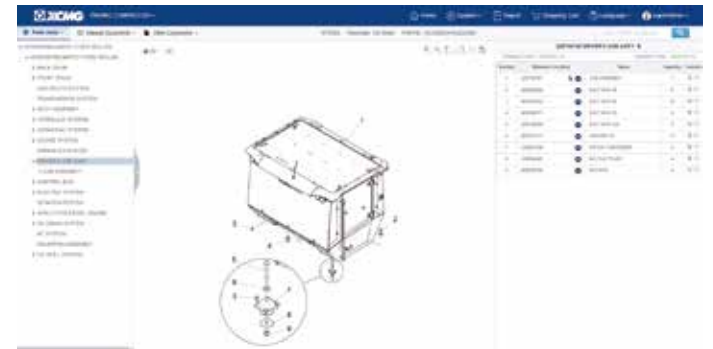
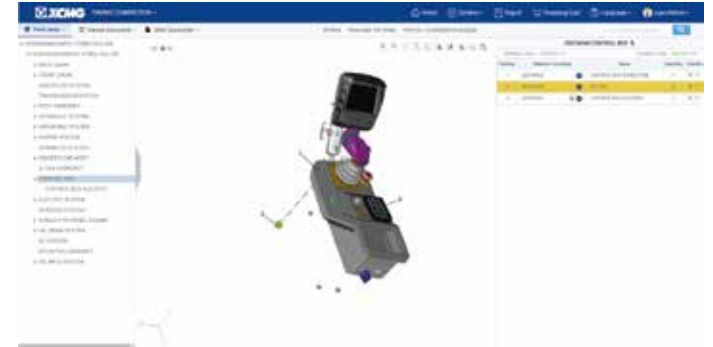
Full Range of Services Ready for You

In order to respond to your needs as fast as possible, XCMG experts can be dispatched to your job site from a facility near you. A full range of services are available 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. XCMG has established a world wide service and parts network to provide support to every customer regardless of location.

XCMG Global Spare Parts System



Mobile cranes



Excavators



Aerial work platforms



Wheel loaders



Road machinery

