

Small Excavators XE80U



Rated Power: 54.6 kW (73.2 hp)
Operating Weight: 9250 kg (20392 lb)
Standard Bucket Capacity: 0.33 m³ (0.43 yd³)

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Specifications and designs are subject to change without notice.
Machines shown may include optional equipment.





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 382th 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.

The XE80U comes with every feature you expect from a small excavator in its tonnage.

Variable angle boom, 62° to the left and 50° to the right, reduced swing tail, and standard rubber track and angle blade give you an edge when undertaking operations in confined sites such as utility, garden, and community landscapes.

Powered by a reliable 73.2 hp Kubota engine, you can count on it to finish tough jobs in various operating conditions. When it comes to efficiency, versatility is a critical factor. That's why the machine is compatible to multiple attachments that can be installed within a short period of time with its hydraulic quick coupler. You will finish the operations with ease and comfort in the jobsite.





Small Machine with Excellent Performance

Performance meets Efficiency

Designed to combine power and smoothness, the XE80U is ready to take on the challenges. This short-tail machine can easily perform on your jobsites even in confined spaces. Its versatility is enhanced by two standard hydraulic circuits (AUX1 & AUX2) and precise oil flow control. High digging and lifting performance together with smooth driving performance make this XE80U an ideal machine for demanding jobs.

The Tier 4 Final common rail diesel engine with EGR, DOC, and DPF technology matches excellently with our improved hydraulic load sensing system. This combination ensures fuel-efficient and smooth control, regardless of its load. The powerful XE80U is more fuel efficient even under heaviest circumstances and it is a pleasure to operate.



— Compact design

The angle boom feature together with the short tail swing for a 9250 kg (20392 lb) machine gives an edge to work in very narrow areas. The left and right boom swing angle is respectively 62° and 50°, which makes the operator easily capable to finish complex movements in demanding conditions such as digging parallel to a wall in a narrow driveway.

— In full control of your hydraulics

The XE80U is equipped with standard proportional controlled AUX1 and AUX2 lines and has quick coupler lines preinstalled as well. And the productivity is greatly increased since the operator can program multiple attachments from the display.

— Robust and durable design

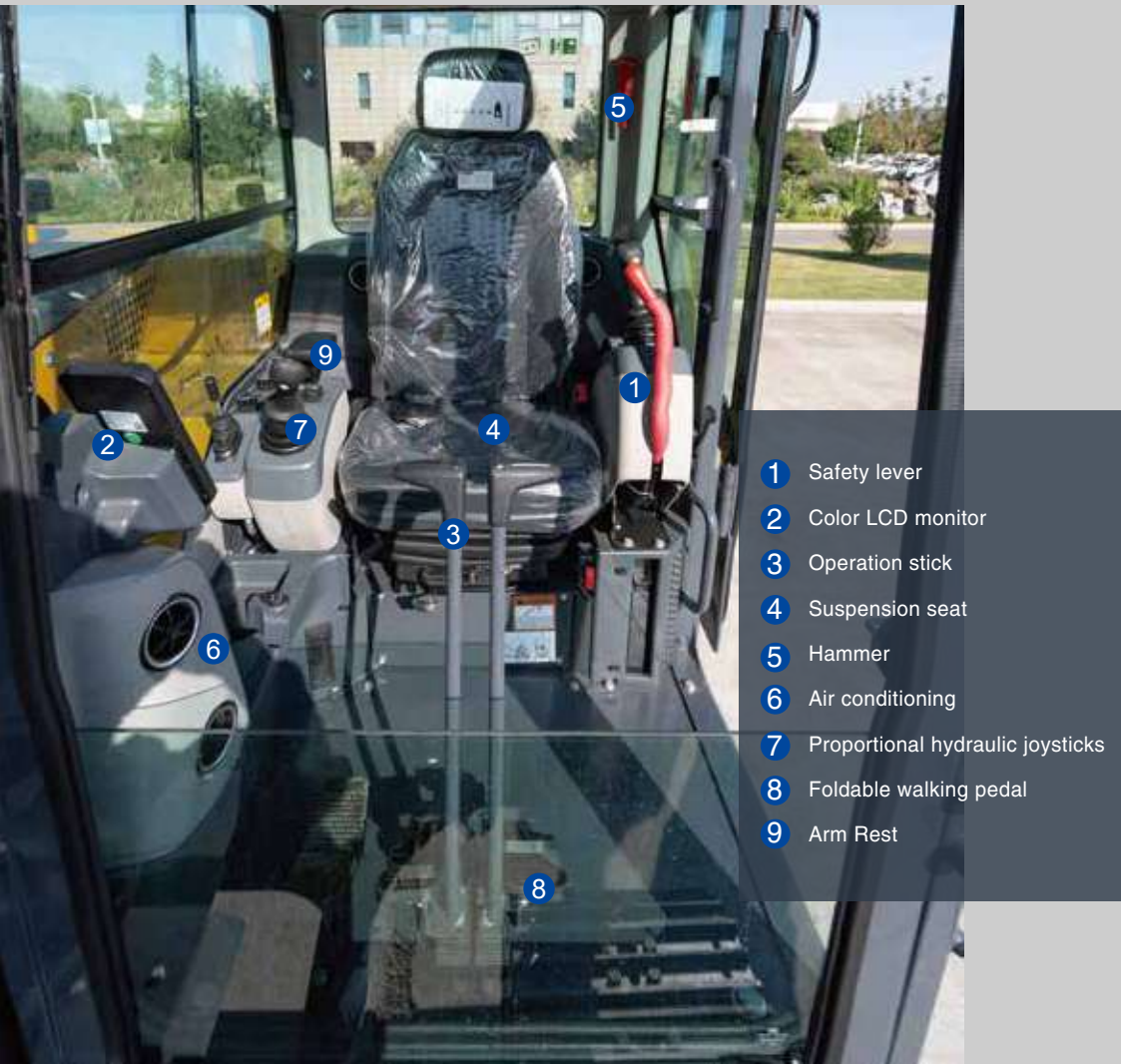
The reinforced boom and arm can withstand heavy load and harsh breaking operations. The standard 0.43 yd³ bucket is equipped with more volume of wear resistant plates to increase more than 10% life cycles. The 10-tonnage slewing bearing, with large steel ball diameter and slewing diameter, has large carrying capacity and long service life. The standard air filter with the double filtration function can help the filter fineness reach 99% in an operating environment with heavy dust so that the engine service life is greatly improved.



Operational Comfort

› Ergonomic and Comfortable

The XE80U is designed to provide you with the best working conditions. The cab has a wide entrance door, which makes it more accessible. The standard ROPS/optional OPG cabin maximizes your safety. Features such as suspension seat, adjustable armrests, storage compartments and one powerful AC can reduce the operator's fatigue during long working hours. The color LCD display with comprehensive machine information, along with ergonomically designed control layouts and roller switch makes your jobs easier.



Easy Access for Maintenance

› Easy Service Access

Our XE80U was developed with particular attention to easy service access, with a single access point for the daily maintenance of all main components, fuel level gauge, and refueling through the lockable cap.



One-sided Engine Maintenance

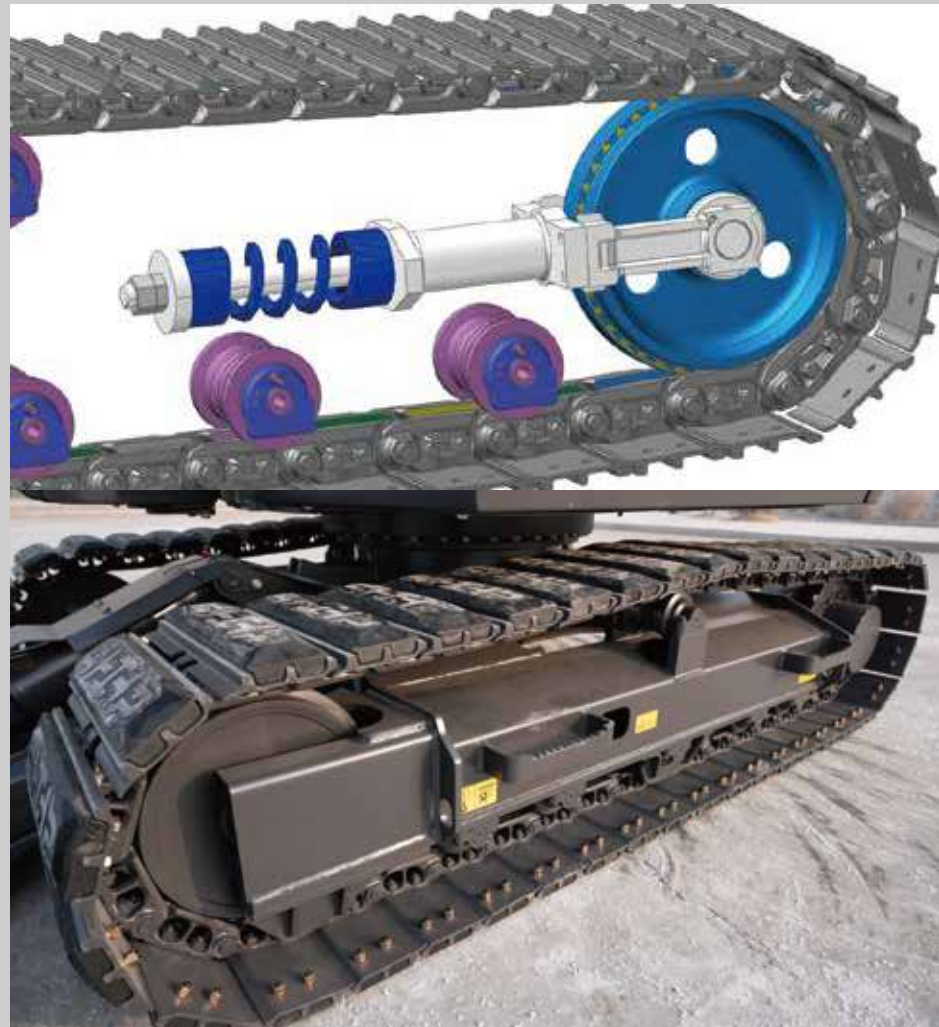
The XE80U is designed for lower maintenance cost with longer service intervals, which results in more machine availability on-site. Meanwhile, skilled XCMG trained technicians are available to provide extra support when needed.



Excellent Reliability and Safety Features

› Reliability Improved Significantly

Due to the reinforced bottom rollers and reinforced X-Shape undercarriage, the overall stability of the entire machine under working conditions such as traveling, excavation, and lifting is improved. The main structure of the super structure platform is optimized and it effectively improve its reliability under heavy-duty operating conditions. And swing bearing is enlarged for stronger more stable swing performance. The service life of rollers, idler, sprocket, and track is increased and travel is smoother with improved design of undercarriage parts layout.



› To Protect the Machine and Operating Sites

The routes of hydraulic pipelines and houses are well-organized; the arm cylinder is guarded; and the front light is integrated under the boom to avoid impacts and damages from rocks and other debris during operations. The continuous rubber tracks can minimize damage made to the paved operating sites. The dozer blade is covered and equipped with holding valve to eliminate the possibility of damage when the blade is not utilized.



› To Protect the Operator and People Around

The standard ROPS/optional OPG certified cab is equipped with rotation warning beacon, emergency stop within reach, lock lever, rear mirrors on both sides, battery disconnect switch, and top lights, which make sure that both the operator and people around the machine can be well-protected.





Technical Specifications

Engine

Make/Model	Kubota/V3307CRTE5
No. of cylinders	4
Rated power at 2200 rpm	54.6 kW/2200 rpm (73.2 hp)
Max. torque at 1500 rpm	265 N·m/1500 rpm (195 lbf·ft)
Idle (low - high)	1200-2000 rpm
Piston displacement	3.3 L (0.87 gal)
Bore x stroke	94 mm x 120 mm (3.7"x 4.7")
Starter	12 V/3.0 kW (12 V/4.0 hp)
Batteries - Alternator	12 V/3.0 kW (12 V/4.0 hp)
Air filter	Double element with automatic dust evacuation

Undercarriage

X-type undercarriage. The heavy-duty crawler chassis is very resilient with its fully welded, stress-free structure. Long service life is ensured by the use of first-class materials: hydraulic chain adjusters with shock-absorbing return springs, lifetime-lubricated track rollers and idlers.

> Number of rollers and track shoes per side

Upper rollers (standard shoe)	1(140 mm)/1(5.5")
Lower rollers	5(140 mm)/5(5.5")
Number of links & shoes	40
Overall track length	2900 mm (9'6")

Hydraulic Cylinders

	Quantity	Bore x rod diameter x stroke
boom	1	110x75x922 mm (4.3x2.9x36.3 in)
Arm	1	95x60x885 mm (3.7x 2.4x34.8 in)
Bucket	1	85x55x742 mm (3.4x2.2x29.2 in)
Dozer	1	120x80x157 mm (4.7x3.2x6.2 in)
Boom swing	1	110x65x592 mm (4.3x2.6x23.3 in)

Hydraulic system

This XCMG design allows independent and combined operations of all functions by hydraulic piloted controlled levers.

> Pump

	Type	Displacement	Max. flow	Relief valve pressure
Main (load sensing)	Load sensing pump	104.3 cm³/rev (6.36 in³/rev)	219 L/min (57.9 gal)	30 MPa (4351 psi)

> Maximum system pressure

Travel	30 MPa (4351 psi)
Swing	23.5 MPa (3408 psi)
Pilot	3.5 MPa (508 psi)

Fluid capacities

Fuel tank	130 L (34.3 gal)
Cooling system (radiator capacity)	14 L (3.7 gal)
Hydraulic oil tank	110 L (29.1 gal)
Engine oil	10 L (2.6 gal)
Swing drive	0.5 L (0.1 gal)
Travel device	2 x 1.3 L (2 x 0.3 gal)

Environment

Noise levels comply with environmental regulations (dynamic values).

> Noise emission

Guaranteed	99 dB(A)
Measured	99 dB(A)
Operator LpA	72 dB(A)

Swing mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single-row, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Equipped with an automatic multi-disc slew brake.

> Swing system

Max. swing speed	12 rpm
Max. swing torque	22.5 kN·m
Boom swing angle L/R	62°/50°

Drive

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gears. Two control levers provide smooth travel or counter_rotation upon demand.

> Speed & traction

Travel speed (low - high)	2.7-4.9 km/h (1.68-3.04 mph)
Maximum traction force	64 kN (14388 lbf)
Gradeability	70%/35°

Digging forces (ISO 6015)

At power boost.

Digging force, standard arm (ISO 6015)	41 kN (9217 lbf)
Digging force, bucket (ISO 6015)	64 kN (14388 lbf)

Weight

With 1.82 m/5'12" arm and 0.33 m³/0.43 yd³ bucket and extra counterweight 250 kg/551 lb

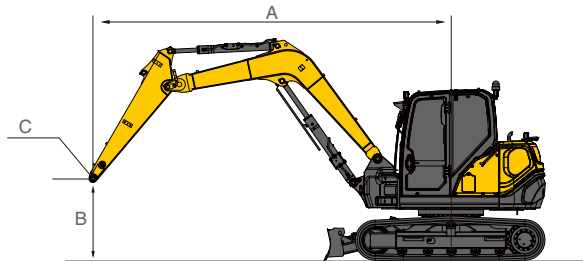
	Shoe width	Operating weight	Ground pressure
Rubber	450 mm (18")	9250 kg (20392 lb)	40.9 kPa (5.9 psi)
Steel	450 mm (18")	9500 kg (20944 lb)	42.8 kPa (6.2 psi)

Lifting Capacities

XE80U

Standard arm: 1823 mm(5.32 ft) • shoe: 450 mm(1.47 ft) • without bucket

B A		3 m/9.8 ft		4 m/13.1 ft		5 m/16.4 ft		6 m/19.7 ft		At Max.Reach		
												Max.
6 m/19.7 ft	kg/lb	*3436/*7560	3167/6968	2410/5302	1985/4368					1768/3889	1424/3133	4.8 m/15.8 ft
5 m/16.4 ft	kg/lb	*2712/*5966	*2712/*5966	2471/5436	1991/4380	1722/3788	1395/3069			1333/2933	1075/2366	5.8 m/18.9 ft
4 m/13.1 ft	kg/lb			2409/5300	1928/4242	1697/3733	1371/3016	1268/2790	1024/2253	1136/2499	914/2010	6.4 m/20.8 ft
3 m/9.8 ft	kg/lb					1639/3606	1316/2896	1247/2744	1004/2210	1034/2274	829/1824	6.7 m/22 ft
2 m/6.6 ft	kg/lb					1570/3454	1251/2752	1214/2671	973/2140	987/2170	789/1736	6.9 m/22.5 ft
1 m/3.3 ft	kg/lb					1513/3328	1196/2632	1183/2603	943/2074	980/2157	783/1722	6.9 m/22.5 ft
Ground Line	kg/lb					1480/3256	1165/2564	1164/2561	925/2035	1016/2235	811/1783	6.7 m/21.9 ft
-1 m/-3.3 ft	kg/lb			2009/4420	1556/3423	1474/3243	1160/2551	1166/2565	927/2038	*1077/*2368	883/1943	6.3 m/20.6 ft
-2 m/-6.6 ft	kg/lb			*1639/*3606	1586/3488	*1293/*2845	1182/2601			*688/*1513	*688/*1513	5.6 m/18.4 ft



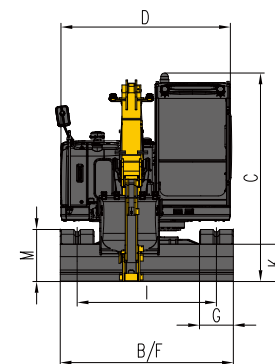
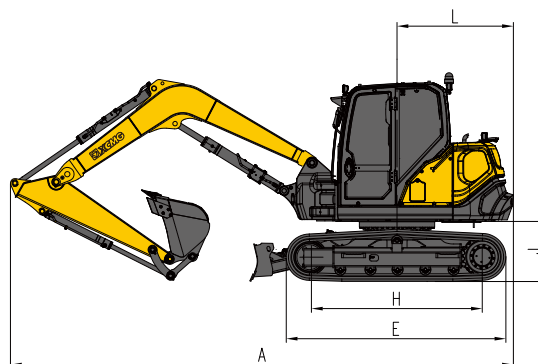
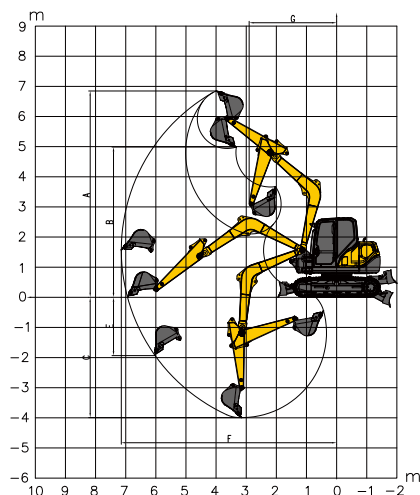
 : Over front
 : Over side or 360°

A: Reach from swing centerline to bucket hook
 B: Bucket hook height above/below ground
 C: Lifting capacities in kilograms

1. The lifting capacity is based on the ISO10567 standard.
2. * = The maximum lifting capacity is limited by the hydraulic capacity of the machine.
3. The lifting capacity does not exceed 87% of the hydraulic capacity or 75% of the tipping load with the machine on level and firm ground.
4. The operator should be familiar with the machines operating- and maintenance manual. Local regulations concerning the safe operation of machinery must be followed at all times.
5. The lift diagrams only covers machines that are originally built by XCMG: without lifting chains and any other lifting equipment.
6. When the excavator is used to lift or handle materials, it must comply with local regulations.



Technical Specifications



Dimensions

Working range

A	Max. digging height	6850 mm (22'6")
B	Max. dumping height	4988 mm (16'4")
C	Max. digging depth	3993 mm (13'1")
D	Max. vertical wall digging depth	1935 mm (6'4")
E	Max. digging reach	7145 mm (23'5")
F	Min. swing radius	3205mm (10'6")

A	Overall length	6585 mm (21'7")
B	Overall width	2300 mm (7'7")
C	Overall height	2730 mm (8'11")
D	Width of platform	2250 mm (7'5")
E	Length of crawler	2900 mm (9'6")
F	Overall width of chassis	2300 mm (7'7")
G	Width of crawler	450 mm (18")
H	Track length on ground	2272 mm (7'5")
I	Crawler gauge	1850 mm (6'1")
J	Clearance under counterweight	818.5 mm (32")
K	Min. ground clearance	386.5 mm (15")
L	Min. tail swing radius	1450/1545 mm (4'9"/5'1")
M	Height of track	692 mm (27")

›Standard and Optional Equipment

Engine	
DOC	●
DPF	●
Fuel-water separator with water level indicator	●
Radial seal air cleaner	●
Air prefilter	●
Radiator	●
Fuel oil gauge	●
Fuel-water quickly release device	●
Auto idle	●
Refueling pump	○

Hydraulic system	
Auxiliary hydraulic valve	●
Single or dual way pipeline	●
Quick coupler piping	●
Rotary attachment pipeline	●
Hydraulic oil ISO VG 46	●
Hydraulic oil ISO VG 32	○
Hydraulic oil ISO VG 68	○
Electric proportional joysticks on the left and right	●
Spare valve plate	●
Pressure monitor gauge	●
Dozer float	●
Operation mode switching on left and right	●
Warning forHoisting overload	●

Cab & interior	
Mechanical suspension seat	●
Up and down adjustable seat handrail	●
Front windshield divided by 70/30 ratio	●
Toughened windscreens and other toughened windows	●
Sliding upper door window	●
Air conditioner	●
Seven inches color LCD display with warning,filter / liquid refill and working hours information	●
Travel control pedal with detachable manual control lever	●
Double stereo speaker	●
Cup holder	●
Coat hook	●
Washable floor mat	●
Safety belt	●
High and low travel speed switch	●
Reserved switch for working attachment	●
Skylight	●
Windshield wiper	●
File packet	●
Emergency exit on rear window	●
Hammer for emergency escape	●
Rain visor	●

Undercarriage	
Track guards for both sides	○
2x40 joints track,2x5 bottom rollers	●
2x1 carrier rollers	●
Tow ring on the bottom frame	●
450 mm(1'6")rubber track	●
2x40 joints,450 mm(1'6")steel track with triple grouser shoes	○
Guard kits: Bottom sealing plate of undercarriage, sealing plate of travel motor	●
2x40 rubber track block	○
Dozer	●

Boom, arm and bucket	
Boom-3400 mm(11'2")	●
Arm-1823 mm(5'12")	●
0.33 m³(0.43 yd³)/916 mm(36")Bucket	●
0.35 m³(0.46 yd³)/868 mm(34")Bucket	○
0.3 m³(0.39 yd³)/805 mm(32")Bucket	○
Quick coupler	○
Thumb	○
Breaking Hammer	○
Scarifier	○
Timber grab	○

Electrical system	
Battery (950 CCA)	●
90 A alternator	●
3 kW starter motor	●
12 V cigarette lighter	●
USB interface (5 V)	●
DAB bluetooth digital radio	●
Rotating beacon	●
Two front working light on the cab(LED)	●
One rear working light on the cab(LED)	●
Two working lights on the boom(LED)	●
One rear light on the engine hood	●
12 V Electric power interface	●
Interior light	●
Rear view camera	●

Conterweight	
1.2 t (2645 lb) counterweight	●
0.25 t (551 lb) extra counterweight	○

Safety and guards	
Lock for the cab door and each cabin	●
Warning horn	●
The quick coupler button with warning	●
Wiper motor protection box	●
Battery disconnect switch	●
Overheating warning	●
Anti-skid plate/ anti-skid paste	●
Hydraulic safety locking lever	●
Left and right rearview mirrors	●
Rearview mirror for cab	●
Anti-burst valve on the boom	○
Anti-burst valve on the arm	○
Anti-burst valve guard,	○
Roll over protection system	●
Operator protective guard	○

Standard: ●
Optional: ○

- Some of these standard or optional equipment may not be available for certain markets.
- Pictures may include attachments and optional equipment that are not available in your area.
- Materials and specifications are subjected to change without advance notice.
- Please contact your local XCMG dealer for more information on availability or to customise your machine to suit your applications requirements.

Optimum Services, XCMG Guaranteed



XCMG approved
attachments



Genuine parts



Financial
solutions



Maintenance
contract



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.

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.

The available attachments include but not limited to the following:

Hydraulic quick
coupler



Hydraulic thumb



Hammer



Timber grab



