# Hydraulic Excavators XE235UCR XXCMG

Rated Power:129 kW (173 hp)
Operating Weight: 26300 kg (57982 lb)
Standard Bucket Capacity: 1 m³ (1.3 yd³)

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



#### Built to last

The robust design featuring state-of-the-art Cummins Tier 4 Final compliant engine, Kawasaki-KPM pump, main control valve, swing motor and upgraded hydraulic system, coupled with reinforced boom, arm, structural parts, and enlarged cylinders makes the XE235UCR a reliable machine that will live up to your every expectation when operating in rough terrains.

#### Made to do more

Multiple sizes of buckets including 0.9/1.0/1.05/1.1/1.2 m³ Earthwork Bucket, 0.9/1.0/1.05 m³ StrengthenedBucket, and 0.9/1.0 m³ Rock Bucket give you more options in different jobsites. Further with a wide range of attachments, the machine is extremely versatile for productive, efficient operations.

#### Safety solutions

Every XCMG excavator is designed with safety as a priority and the machine features a ROPS and OPG certified cab, standard rear view and right view cameras, anti-slip steps, guard rails, and LED working lights. Both the operator and people around the machine are well protected with these solutions.

#### Optional features give you more

The XE235UCR comes with every feature that the operator would expect in the industry. Additionally, it can always surprise you with multiple optional equipment.

#### Easy-to-use attachments

Programmable auxiliary lines AUX1 (single and dual way) and AUX2 are provided to support your hydraulic attachments like, grabs, shear, hammer and many more.

#### Operator comfort

To ensure operator comfort, it offers a spacious cab with low noise and reduced vibration by silicon-filled viscous mount and excellent all-round visibility. Fully adjustable heated air suspension seat and air conditioning with climate control as standard.

#### Precise control

With 8 working modes and 3 power modes and proportional joysticks, the operator can finish demanding tasks with confidence and efficiency.

#### Powerful engine

The reliable Cummins B6.7 T4F engine delivers exceptional power while reducing emissions and fuel consumption by adopting high pressure common-rail electronic injection system among other advanced technologies.

#### Easy maintenance

The grouped filters and centralized lubrication points, easily accessed from the ground level, make daily maintenance efficient and safer at your jobsites.

#### User friendly

The meticulously designed 8" LED display is optimized for efficient control, resulting in excellent productivity plus service reminding feature. Besides, all other Human Machine Interface such as joysticks, panels, bottoms are ergonomically engineered.

#### Robust undercarriage

The robust sprockets, idlers, carrier and bottom rollers, along with X-shape frame are built to withstand tough terrains and operations, to improve durability and increase uptime.







# Excellent Performance and Fuel Efficiency

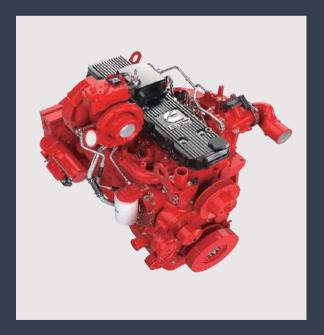
#### **Power without compromise**

The XE235UCR makes handing of your tasks efficient and comfortable

- The optimized Kawasaki-KPM hydraulic system makes sure all engine power is utilized in the best possible way by delivering accurate maximum pumping in a smooth way.
- The digging, lifting and traction force are greatly increased by the precisely matched engine and hydraulic systems.
- The cost of ownership is reduced due to improved fuel efficiency.

#### Power match technology

The XE235UCR is equipped with a Cummins B6.7 engine. Famous for its excellent fuel efficiency, reliability, and long service intervals, it combines exceptional power output and high torque at low revs. Selective Catalytic Reduction (SCR) technology combined with a Diesel Particulate Filter (DPF) - ensures compliance with Tier 4 Final regulations. If the engine is the heart of the excavator, the XICS (XCMG Intelligent Control System) is its brain – providing a perfectly synchronized communication link between the engine's ECU (Electronic Control Unit) and the hydraulic system. The CANBUS (Controller Area Network) system enables a constant flow of information between engine and hydraulic system, so that power is delivered exactly as needed.



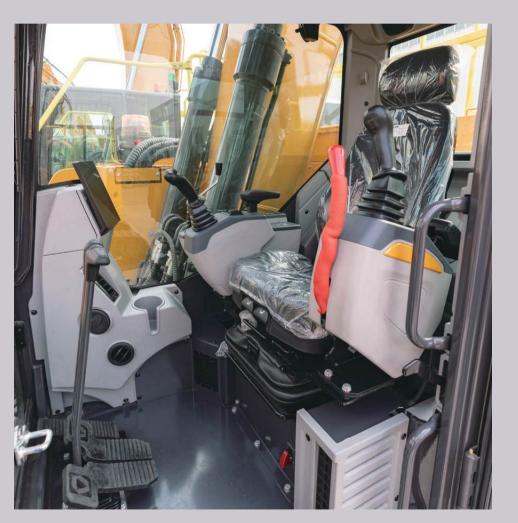
#### Fuel efficiency technology

- Choosing between 3 power modes and 8 attachment modes guarantees optimum performance under all conditions.
- Electronic control of fuel consumption.
- The auto idle feature reduces the engine speed when the controls are inactive for a preset amount of time or when the safety lever is switched off. The engine will immediately return to its original selected speed when the operator touches any control panel.
- For optimum cooling, the fan speed is controlled by a viscous clutch that results in lower fan noise with better fuel efficiency.



### First Choice for Operator Comfort

The XE235UCR cabin is designed to support increased productivity with a spacious comfortable operator environment. The pressurized cab is ISO-certified for your safety and offers a comfortable heated fully adjustable air-suspension seat with several storage compartments and a clear all-round view of your jobsite. The reduced noise and vibration levels with automatic air-conditioning/climate-control will make your workday more easy and comfortable.



#### Power

An industry-leading Cummins engine that saves on fuel and meets the Stage V/Tier 4 F emission regulations powers the XCMG XE235UCR.

#### **Advanced control technology**

Ergonomic, advanced and simple-to-operate - Kawasaki's proportional joystick delivers ultra-precise and smooth control over all movements.

The orientation of the joystick's rollers and the buttons is adjustable.

#### **Air conditioning**

The air conditioning has the function of heating and cooling. The air outlet direction can be adjusted by hand Multiple wind speeds are also available.

#### Bluetooth/MP3/USB radio as standard and DAB radio as option

Bluetooth FM radio is fitted as standard and DAB radio can be ordered optionally.

#### **Storage space**

The new cab has 4 storage compartments – including a storage box for magazine/papers, and a cup holder.

#### **Cab suspension**

Even at the roughest applications where you are working, the cab's improved new suspension system dampens and smoothens out unwanted feedback from your jobsite.

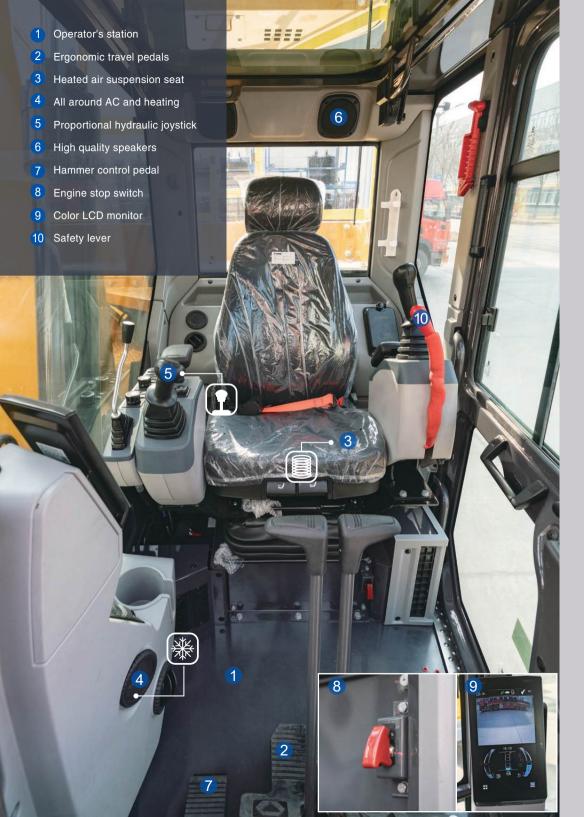
#### **Ouick coupler control**

A standard quick coupler hydraulic system with pipelines lets you exchange your attachment easily from the operator's seat. It facilitates the most common systems.











#### Machine interface

All machine interfaces – including joysticks, keypad, panel, and larger LCD monitor – are ergonomically designed for optimum control and efficiency, resulting in increased productivity and workplace wellbeing. The switches have been simplified and climate control is now integrated into the keypad for easy adjustments.

- The new multi-function 8"TFT LCD monitor displays a comprehensive range of useful technical information, allowing you to check the machine's status and settings at a glance.
- Highly sensitive and low-effort joysticks and clear convenient controls enable you to work smooth and safely with minimum effort for increased comfort and efficiency.
- The newly adjustable proportional auxiliary functions support precise and smooth control of your attachments.

#### **Intelligent monitor**

The upgraded 8"TFT monitor features a day and night display with full user access to the machine settings and running data. Any abnormality is clearly displayed on the screen, allowing you to work safely and confident with an accurate overview of all conditions.

All important data can be directly monitored from the main screen.

#### **Dynamic power management**

- Activating the power boost control system increases the digging force by 8%
- Auto-idling starts a few seconds after all controls are returned to the neutral position.

#### 8 Attachment modes & 3 Power modes

Deliver the needed power according to your specific applications while minimizing fuel consumption. One click mode for quick selection and more convenient operation. Visual adjustment of pressure and flow parameters for more intelligent control.





- 1. Bluetooth
- 2. Energy saving icon
- 3. Travel speed (H/L)
- 4. Automatic idle
- 5. Power boost
- 6. Work mode
- 7. Mode and gear
- 8. Notification icon
- 9. Camera
- 10. Time and date
- 11. Urea level
- 12. Mute button
- 13. Main interface set
- 14. Menu
- 15. Coolant temperature
- 16. Fuel level
- 17. Fault code area
- 18. Fault description
- 19. Hour meter



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#### Designed for long-term robustness and safety

XCMG has developed one of the most rigorous strength and reliability testing procedures, The XCMG U-series features durability under the most extreme conditions and is therefore one of the most popular brands in its home market.

XCMG continually manufactures the most durable machines in order to reduce the cost of ownership. The robust upper frame, undercarriage structure, and front attachments show their real value in tough working conditions and guarantee higher productivity.

#### **Reinforced durability of the X-chassis**

The X-shaped undercarriage has a higher durability than demanded on the jobsite, as proven through numerous tests including road tests and virtual simulation.

#### **Undercarriage durability with easy maintenance**

- The chain is composed of sealed, self-lubricating links for long-term performance.
- Long life track tensioners and the idlers.
- Heavy-duty wear resistant cast sprockets.
- · Durable lubricated track rollers.

#### **Strengthened boom and arm**

FEA has been used to calculate the best load distribution throughout the machine structure. For better protection of the base of the arm, reinforced bars have been added. The arm structure has been strengthened for the roughest conditions.

#### Hi-grade (high-pressure) hoses

The U-series uses a new type of high-pressure hoses with improved heat and pressure resistance to increase the durability of the machine.

#### Reinforced pin, bush, and polymer shim

The new series improved the lubricity of the connecting parts between the machine and the attachments. The gap with attachments are minimized by wear-resistant long-life pins, bushes, and polymer shims, which produce the highest performance with invariable durability.







#### > Excellent serviceability

Our machines are designed for simple routine maintenance, while skilled XCMG technicians are available to provide extra support if needed. To get the most out of your machine, choose the package you need from a broad range of service agreements. Uptime, productivity and residual value are all maximized, making the XE235UCR an economical and rewarding choice.

#### Simple and easy maintenance

- A large guard rails are installed along with anti-slip steps and plates, for safer and easier access to the whole upper structure.
- The cab's air-conditioning filter is lockable and placed on the cab's side for easy access.
- A battery cut-off switch to easily disconnect the battery for jobsite-required safety measures.
- The fuel tank drain piping make servicing easier and prevents pollution from leakage.
- The engine parts can be reached easily via the top and side panels.
- For extra accessibility and servicing convenience, all filters (engine oil filter, fuel pre-filter, fuel filter and hydraulic pilot filter) are located in the pump compartment.

#### **Pre-start monitoring system**

The XE235UCR has a pre-start monitoring system that shows you coolant temperature, hydraulic oil temperature, engine oil pressure, fuel levels, and the AdBlue® level. It will also indicate fluid and filter intervals to keep the machine in top performing condition.

Proactive maintenance solutions

- Extended warranty: XCMG covers the cost of the parts, travel and the labor.
- Routine maintenance: your dealer will support you with routine service at regular intervals.
- Genuine parts: The parts were manufactured and tested to ensure long lifetime of your machine.

#### SCR tank and easy diesel filling

The ECU (Engine Control Unit) monitors with sensors of the AdBlue® system and warns the operator for potential system malfunctions.

#### **Centralized lubrication greasing points**

These make maintenance easier.













#### Engine

Make/Model	Cummins B6.7
No. of cylinders	6
Rated power	129 kW (173 hp)/2200 rpm
Max. torque	881 N.m(650 ft.lb)/1300 rpm
Idle (low - high)	700-1200 rpm
Piston displacement	6.7 L(1.8 gal)
Starter	24 V/7.8 KW
Batteries - Alternator	24 V/70 A

#### Hydraulic system

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

#### > Pump

Туре	Displacement	Max.flow @ 1850 rpm	Relief valve pressure
Main(Positive electric hydraulic system)	130 cm <sup>3</sup> 2	240.5 L(63.53 gal)/min	34.3 Mpa/4975 ps
	(7.8 in <sup>3</sup> per pump	(per pump)	(37 Mpa/5366 psi

#### 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 ÿrst-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)	2
Lower rollers	9
Number of links & shoes	49
Overall track length	4444 mm/14'7"

#### Maximum system pressure

Travel	34.3 MPa/4974.8 psi
Swing	27.5 MPa/3988.5 psi
Pilot	3.9 MPa/565.6 psi

#### Digging forces (ISO 6015)

Digging force, standard arm (ISO 6015) 107.7/116.2 kN(24212 lb/26123 lb)

Digging force, bucket (ISO 6015) 129.3/139.5 kN(29068/31361lb)

#### Weight

#### With 2910 mm/9'7" arm and 1 m3/1.3 yd3 bucket

	Shoe width	Operating weight	Ground pressure
Steel	800 mm/2'8"	26300 kg (57982 lb)	41 kpa/5.95 psi



#### 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)	3.4-5.3 km(2.1-3.3 mile)/h
Maximu	um traction	210 kN/47210 lbf
Maxim	ım gradeability	≤35°

#### 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 speed & torque

Maximum swing speed	12.1 rpm
Maximum swing torque	67 kN.M(49417 ft.lb)

#### >Fluid capacities

#### Buckets

	Width(mm/in.)				Boom 5.68 m/18'8"	
Bucket type	Capacity(m³/yd³).			Weight(kg/lb)	Arm 2.91 m/9'7"	
		With side cutters	W/o side cutters		Shoe 800 mm/31"	
	0.9/1.2	1211/4'	1186/3'11"	750/1653	С	
	1/1.3	1301/4'3"	1276/4'2"	782/1724	С	
GP	1.05/1.4	1354/4'5''	1354/4'5"	858/1892	С	
	1.1/1.4	1431/4'8"	1406/4'7"	805/1775	С	
	1.2/1.6	1531/5'	1506/4'11'	870/1918	С	
	0.9/1.2	1216/4'	1186/3'11"	807/1779	В	
HD	1/1.3	1346/4'5''	1316/4'4"	875/1929	В	
	1.05/1.4	1354/4'5"	1354/4'5"	988/2178	В	
SD	0.9/1.2	1060/3'6''	1060/3'6"	928/2046	Α	
3D	1/1.3	1146/3'9"	1146/3'9"	987/2176	Α	

#### **GP:** General purpose;

#### HD: Heavy duty;

#### SD: Severe duty;

A: Suitable for materials with a density less than or equal to 2100  $kg/m^3(131\ lb/ft^3)$ 

B: Suitable for materials with a density less than or equal to 1800 kg/m³(112 lb/ft³)

C: Suitable for materials with a density less than or equal to 1500 kg/m³(93 lb/ft³)

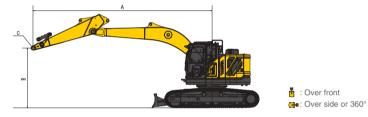
Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.



#### XE235UCR

Standard undercarriage width: 2910 mm/9'7" • W/o bucket (kg/lb)

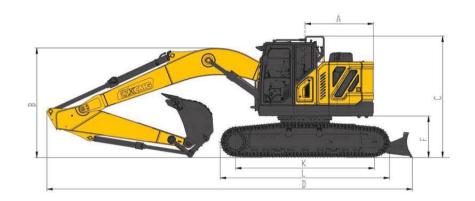
	А	1.5 r	n/5 ft	3.0 m	n/10 ft	4.5 m	/15 ft	6.0 m	/20 ft	7.5 m	/25 ft	ļ ,	At Max.Reach	
В		<u> </u>	<b>Ģ</b>	<u> </u>	<b>G</b>	₫	<del>(</del>	₽	<b>(</b>	Ö	<b>(</b> 卦	ď	( <del>4</del> a	Max.
9.0 m/30 ft	kg/lb											*6329/*13955	*6329/*13955	4.3/14
7.5 m/25 ft						*5423/*11958	*5423/*11958	*5805/*12800	5452/12022			*5291/*11667	5197/11459	6.2/20
6.0 m/20 ft	kg/lb					*5798/*12785	*5798/*12785	*5705/*12580	5456/12030			*4958/*10932	3997/8813	7.3/24
4.5 m/15 ft				*9086/*20035	*9086/*20035	*7153/*15772	*7153/*15772	*6284/*13856	5303/11693	*5889/*12985	3804/8388	*4902/*10809	3436/7576	8.0/26
3.0 m/10 ft	kg/lb					*9173/*20226	7584/16723	*7202/*15880	5072/11184	5950/13120	3705/8170	*5036/*11104	3156/6959	8.4/28
1.5 m/5 ft	kg/lb					*11018/*24295	7099/15653	8063/17779	4841/10674	5825/12844	3592/7920	4916/10840	3052/6730	8.4/28
<b>Ground Line</b>	kg/lb			*5743/*12663	*5743/*12663	*11945/*26339	6833/15067	7873/17360	4675/10308	5729/12632	3506/7731	5026/11082	3102/6840	8.3/27
-1.5 m	kg/lb	*6472/*14271	*6472/*14271	*10630/*23439	*10630/*23439	*11934/*26314	6756/14897	7789/17175	4603/10150	5697/12562	3477/7667	5446/12008	3338/7360	7.8/26
-3.0 m	kg/lb	*11633/*25651	*11633/*25651	*15502/*34182	12772/28162	*11054/*24374	6810/15016	7823/17250	4632/10214			6425/14167	3897/8593	6.9/23
-4.5 m	kg/lb			*12242/*26994	*12242/*26994	*8878/*19576	7008/15453					*6860/*15126	5328/11748	5.5/18

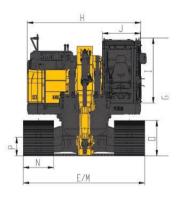


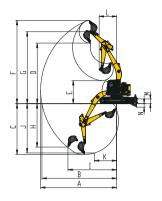
- A: Reach from swing centerline to bucket hook
- B: Bucket hook height above/below ground
- C: Lifting capacities in kilograms
- 1. The lifting capacity is based on the ISO10567 standard.
- 2. \* = The maximum lifting capacity is limited by the hydraulic capacity of the machine.
- 3. The lifting capacity 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

	XE235UCR	mm/ft
	Boom length-mm/ft	5680/18'8"
	Arm length-mm/ft	2910/9'7"
	Bucket capacity-m³/yd³	1/1.3
Α	Tail swing radius	1800/5'11"
В	Shipping height (boom)	2867/9'5"
С	Shipping height (guardrail)	3181/10'5"
D	Shipping length	9005/9602/29'7"/31'6"
E	Shipping width	3190/10'6''
F	Counterweight clearance	1085/3'7"
G	Height over cab	3085/10'1"
Н	Upper structure width	2980/9'9"
I	Cab height above house	1704/5'7"
J	Cab width	1004/3'4"
K	Tumbler distance	3647/12'
L	Track length	4444/14'7"
М	Undercarriage width	3190/10'6''
N	Shoe width std.	800/2'7"
0	Track height	924/3'
Р	Ground clearance	485/1'7"

#### Working range

	5 5	
	XE235UCR	mm/ft
	Boom length-mm/ft	5680/18'8"
	Arm length-mm/ft	2910/9'7"
	Bucket capacity-m³/yd³	1/1.3
А	Max. digging reach	9944/32'7"
В	Max. digging reach (ground)	9778/32'1"
С	Max. digging depth	6646/21'10"
D	Max. loading height	7919/26'
E	Min. loading height	3010/9'11"
F	Max. digging height	10899/35'9"
G	Max. bucket pin height	9416/30'11"
Н	Max. vertical wall depth	5692/18'8"
I	Max. radius vertical	6375/20'11"
J	Max. digging depth (8' level)	6458/21'2"
K	Min. radius 8'line	2912/9'7"
L	Min. swing radius	2291/7'6"
М	Maximum lifting height of blade	610/2'
N	Maximum digging depth of blade	480/1'7"

#### >Standard and Optional Equipment

Engine	
Cummins B6.7	•
oil-water separator with heater (24 V)	0
Radial seal air filter	•
Air pre-filter	•
Radiator dust screen	•
Fuel level indicator	•
oil-water quick release device	•
Fuel filling pump	0
Air differential pressure indicator	•
Automatic idle	•

#### Electrical system

Battery (2×950 CCA)	•
70 A alternator	•
7.8 kW starter motor	•
USB interface(5 V)	•
Emergency stop switch	•
Rightview camera	•
Rearview camera	•
AM-FM radio with digital display	•
DAB Bluetooth digital radio	0
Travel buzzer with switch	•
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)	•
12 V electric power port	•
Interior light	•

#### Undercarriage

Track guards for both sides	•
2×9 bottom rollers	•
2×2 carrier rollers	•
Tow ring on the bottom frame	•
Guard kits: Bottom sealing plate of undercarriage, sealing plate of tr	avel motor
Track with triple grouser shoes, 600 mm(24")	0
Track with double grouser shoes, 600 mm(24")	0
Track with triple grouser shoes, 700 mm(28")	0
Track with double grouser shoes, 700 mm(28")	0
Track with double grouser shoes, 800 mm(31")	0
Track with triple grouser shoes, 800 mm(31")	•
Dozer blade	0

#### Safety and guards

Lock for the cab door and each cabin	•
Warning horn	•
The quick coupler button with warning	•
Isolation plate between engine and pump chamber	•
Battery disconnect switch	•
Overheating warning	•
Safety handrail and pedal	•
Anti-skid plate/anti-skid paste	•
Hydraulic safety locking lever	•
Left rearview mirrors	•
Anti-burst valve on the boom	0
Anti-burst valve on the arm	0
Roll over protective structure(ROPS)	•
Mesh guard lower half front	0
Full protecting guard	0
OPG	0

#### Cab & interior

Pressurized cal	b
Air suspension	seat with heater
Control box on	left and right
Rain visor (Not	mounted when front upper guard exists)
Front windshiel	d divided by 70/30 ratio
Sliding upper de	oor window
Air conditioner	with defroster [Automatic][Pressurized ]
Color LCD displ	ay with warning, filter / liquid refill and working hours information
Travel pedals w	vith detachable manual control lever
Double stereo s	speaker
Cup holder	
Safety belt	
High and low tra	avel speed switch
One-key boost	
Skylight	
Multi-gear wind	shield wiper with intermittent feature
File packet	
Emergency exit	t on rear windows
Hammer for em	nergemcy escape

#### Lubrication system

Manual centralized lubricating system	•
Electric auto lubrication system	0

#### Boom, arm, bucket and thumb&coupler

Boom-5.68 m(18'8")	•
Arm-2.91 m(9'7")	•
Hydraulic thumb	0
48"(1219 mm) bucket	•
Miller hydraulic coupler	0

Standard: • Optional: •

- · Some of these standard or optional equipment may not be available for certain markets
- $\cdot$  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

Hydraulic shear

scrap shear

orange peel grab



















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