

Vibratory Roller XD120VT



XCMG FOR YOUR SUCCESS

Machine dimension(standard):103x51x109in

Machine weight(standard): 5842lb

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INTRODUCTION OF XCMG

Founded in 1943, XCMG is the largest enterprise in the Chinese construction machinery industry. We offer the most diverse product line and the highest technological standards. We provide a comprehensive set of construction solutions, and we are the most internationally competitive firm in the industry. On KHL Yellow Table, we rank No. 1 in China and No.3 globally.

Across our offices in China, the US, Germany, India, and Brazil, XCMG has established a global collaborative research platform including national-level R&D facilities focused on advanced smart manufacturing technology. Our R&D team consists of top talents from around the globe. They are researching cutting-edge technologies such as new energy, unmanned driving and high-end parts. Our work has earned us numerous international patents and awards.

XCMG has the most comprehensive product line, meaning we can offer fully comprehensive solutions in 9 areas: hoisting, earthwork, road building & maintenance, mining, concrete & paving, tunnel-building & underground construction, high-altitude firefighting equipment & special-purpose vehicles, railway & bridge construction, sanitation engineering. All these solutions can be customized to suit our customers' needs.

At XCMG, our five-continent sales network gives our products worldwide visibility. We have 300 overseas distributors, over 10 overseas manufacturing bases and KD (Knockdown) factories, and products in more than 180 countries and regions. We supply our global customers with pre-sales, mid-sales and after-sales service, and a convenient, efficient one-stop financing and leasing service. XCMG's total annual exports and overseas income consistently come top of the industry in China.

We care deeply for the welfare of the people. We support numerous charitable causes, and are quick to the scene during disaster relief efforts.

XCMG is all set to become an eternal brand with our feet on the ground and eyes on the horizon. XCMG's ambition leads us forever forwards. XCMG is scaling its Everest, and is determined to reach the top.

Highlights of XD120VT

Comfortable and safe control system

- 1 > Suspension seat with safety belt and occupation switch
- > Foldable ROPS provides safety protection under extreme conditions
- > Driving safety and reliability is guaranteed by three means of braking: neutral brake, secondary brake and parking brake.
- > Propel lever integrates vibration, water sprinkling and braking functions;
- > Foot type oil spray switch, easy to operate;
- > Bilateral accesses, large area step design, safe and reliable.

Efficient operating performance

- 2 > The front drum and rear tire combination greatly improves the compacted surface quality of asphalt top layer;
- > Dual-frequency single-amplitude vibration exciter provides two kinds of exciter forces for different working conditions.
- > 67Hz high frequency vibration and high excitation force ensures high compaction efficiency and deep influence.
- > Manual and automatic vibration control
- > 720mm large diameter drum design, good traffic performance, high compaction quality;
- > Tubeless tires, high reliability, easy maintenance, ensure the continuity of construction.

Environmental friendly and energy saving

- 3 > Diesel engine in compliance with EU Stage-V emission standards
- > ECO engine speed ensure the power output in environmental friendly and energy saving manner;
- > LED lights;
- > Disposable hydraulic oil as option;

Superior trafficability

- 4 > Two gear speeds available;
- > High climbing ability, small turning radius;
- > Normally closed brake;
- > Independent support structure with two motors for rear drum, high power and smooth turning;
- > High curb clearance, superior edge compaction performance.

Excellent maintenance space

- 5 > 75 degree opening angle of engine hood facilitates service
- > Front and rear driving lamp holder can be turned out, which is convenient for the maintenance of electrical lines, sprinkler system and scraper.
- > Air filter, machine filter, diesel filter and hydraulic oil filter are centralized lower placed within easy reach;



Streamline and neat appearance

Product model

XD120VT

X: XCMG

D: double-axle roller

120: steel wheel width 1200mm

VT: steel wheel + rubber wheel



Superior man-machine control performance

Clear and concise instrument display

Rainproof design, layout of whole machine control buttons, central control digital display instrument for real-time monitoring of equipment working status

Spacious operation space

Aisles on both sides, providing large space for legs and making operation more comfortable

Excellent side/front view

Narrow vehicle body structure and forward inclined hood design to minimize the blind area of vision





Outstanding sprinkler system

Independent water tank design

Two sets of independent sprinkler systems, steel wheel and rubber wheel sprinkling independently

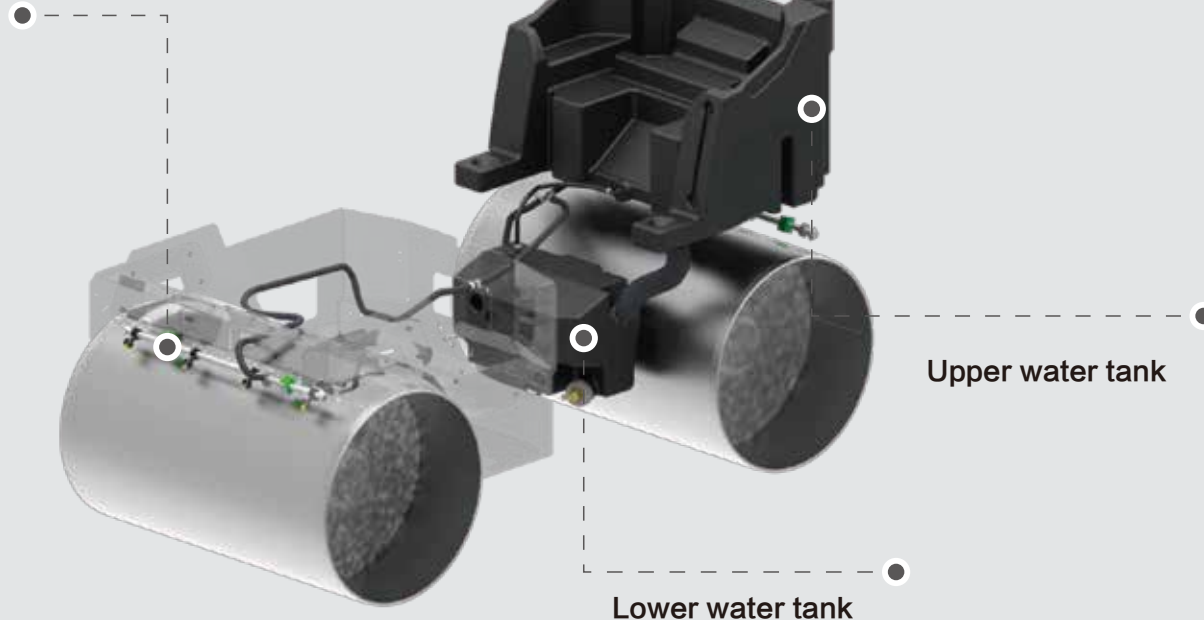
Five-gear intermittent sprinkling

Multi-gear control of sprinkling to meet the needs of various working conditions

Three-stage filtration device

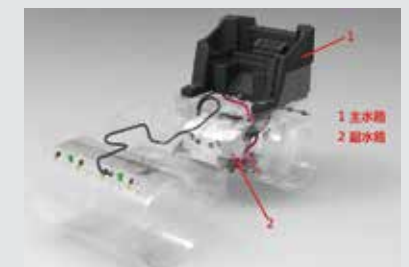
Filter devices are set at the water inlet, water outlet and nozzle to ensure stable and smooth sprinkling

Imported drip-proof nozzle



Sprinkler system

The spray system is equipped with an electric spray pump. The pressure spray system uses Germany LECHLER's nozzles to ensure even water spraying. Main and auxiliary dual water tank design, 120 litres of main water tank for front steel drum, separate spraying electric pump can control multi gear spray interval; The auxiliary water tank is 80 litres for the rear rubber tire to spray asphalt separat, separate spray pump, foot control switch, easy to operate. Filters are installed on the main and auxiliary water tank mouth, in front of water pump and nozzles. three-level filtering system greatly improves the reliability of the system.





Design of maintenance free vibrating wheel

Vibration bearing grease lubrication

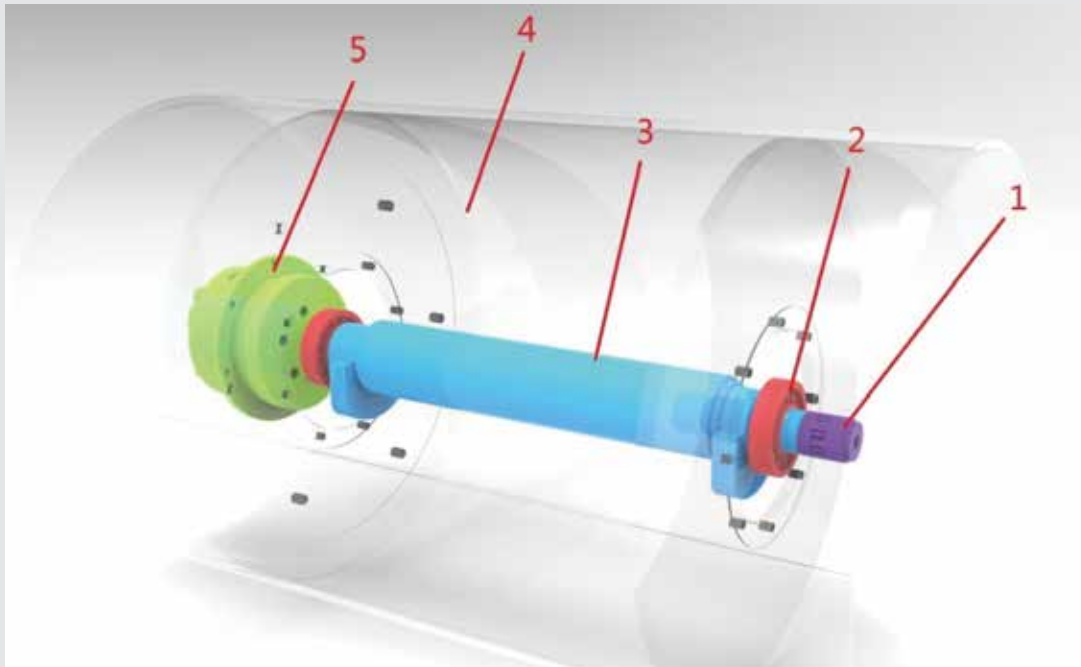
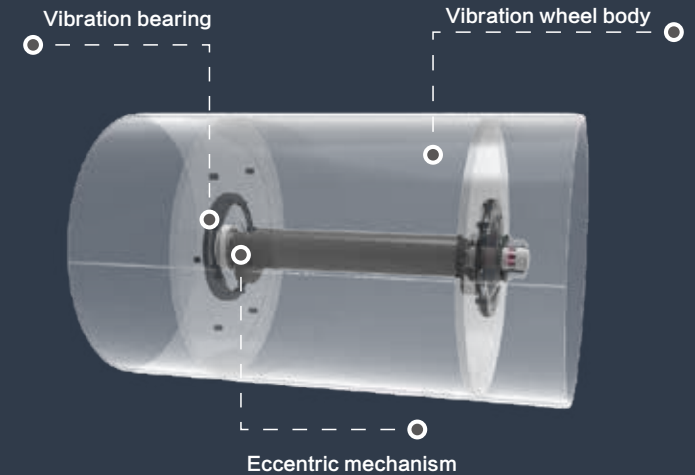
Working life of 10,000 hours, saving maintenance costs

Large-diameter roller

720mm diameter roller design to improve the pavement flatness

Double excitation force output

Select according to the construction requirements to meet the requirements of multiple pavement conditions



Vibratory Drum

Front vibration drum is an important working part. The vibration drum has one side hydraulic motor for propel and the other side gear motor for compaction; the wheel side has hoop bind to fix the roller during transitions.

> The vibration motor and the vibration exciter are connected through the elastic coupling, the start and stop of vibration is stable, and the hydraulic motor has a long life.

> Maintenance-free design of vibration drum, 10,000 hours maintenance-free vibration bearing, high availability with low cost of use;

> Dual-frequency single-amplitude vibration exciter provides two kinds of exciter forces for different working conditions.

> 720mm large diameter drum design, good traffic performance, high compaction quality;

> Low speed high torque hydraulic motor with mechanical brake, good low speed stability, is the guarantee of perfect construction.



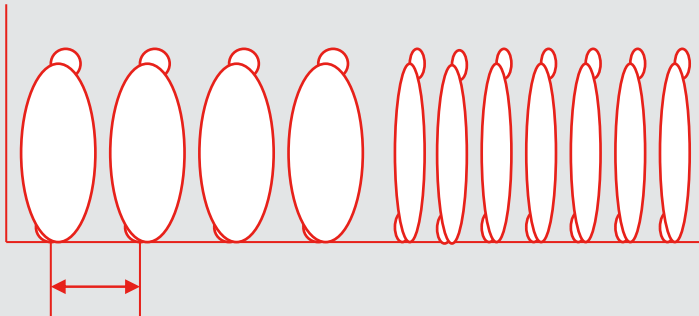
Efficient compaction performance

Dual-frequency vibration system

63/67Hz dual frequency and high frequency design to improve work efficiency

Tire rubbing and compaction

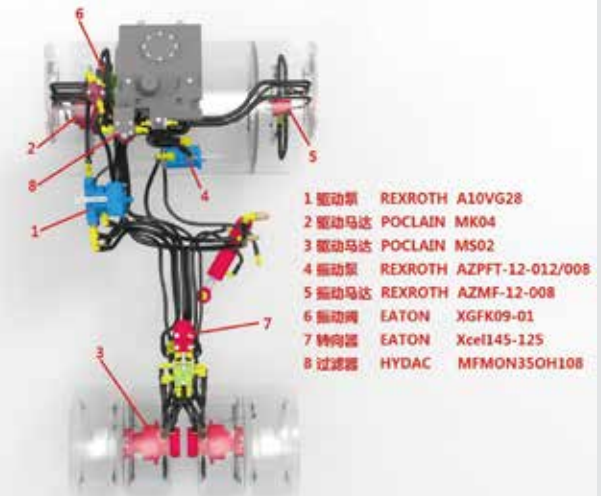
Intermediate support, good edge compaction and smooth tread tire compaction to improve the compaction quality



Hydraulic System

> Closed loop hydrostatic drive system, the combination of axial piston pump and radial piston motor, equipped with a closed brake, driving powerful, parking safe and reliable; The open loop hydraulic vibration system controls the vibration of front drum through solenoid valve. The hydraulic drive system uses two-stage hydraulic oil filtration system, which can extend the service life of the system. The driving, vibration, steering and oil filling systems are equipped with pressure measuring points for fault diagnosis.

> All the main components of the hydraulic system are from the world – renowned manufacturers, market proven higher reliability.



Excellent trafficability

Maneuverability and flexibility

Large angle left/right steering of 32° , ideal turning radius

Standard mechanical crab motion

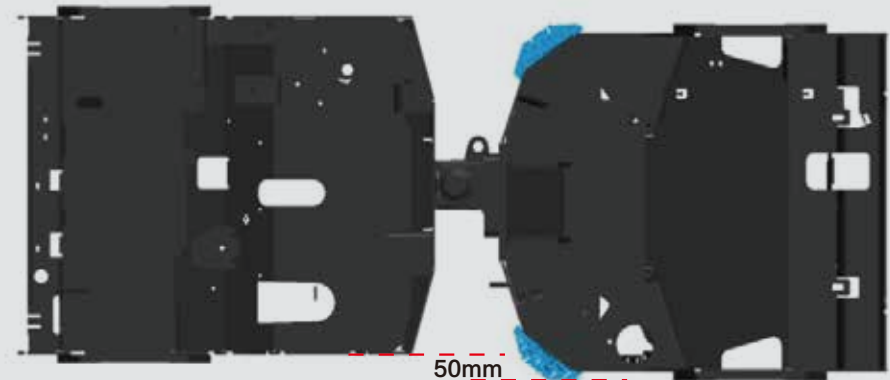
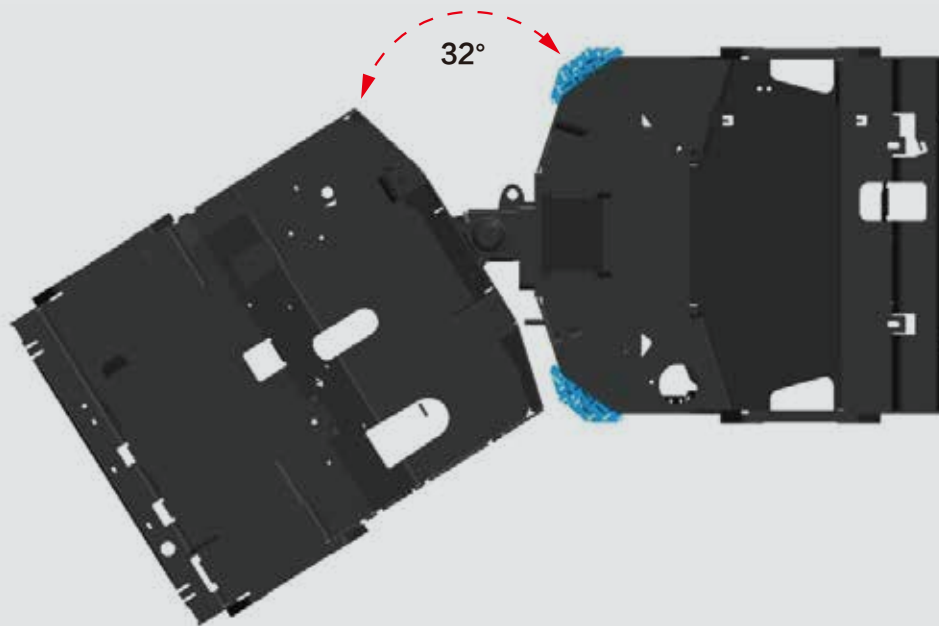
50mm staggered crab motion, extreme edge compaction of curve

Superior trafficability

Two-gear speed, stepless control, two wheel drive, strong climbing ability



30% (16.7°)



Ultimate driving experience

Multi-choice lighting system

Front and rear lighting headlamps, ROPS work lights and rotating warning lights, making the construction clearer at night

Double handle control

Left and right double handle control, double elbow support and integrated button control, making the operation more convenient

Rich options

Kerb asphalt trimming mechanism, anti-skid system to improve the climbing ability

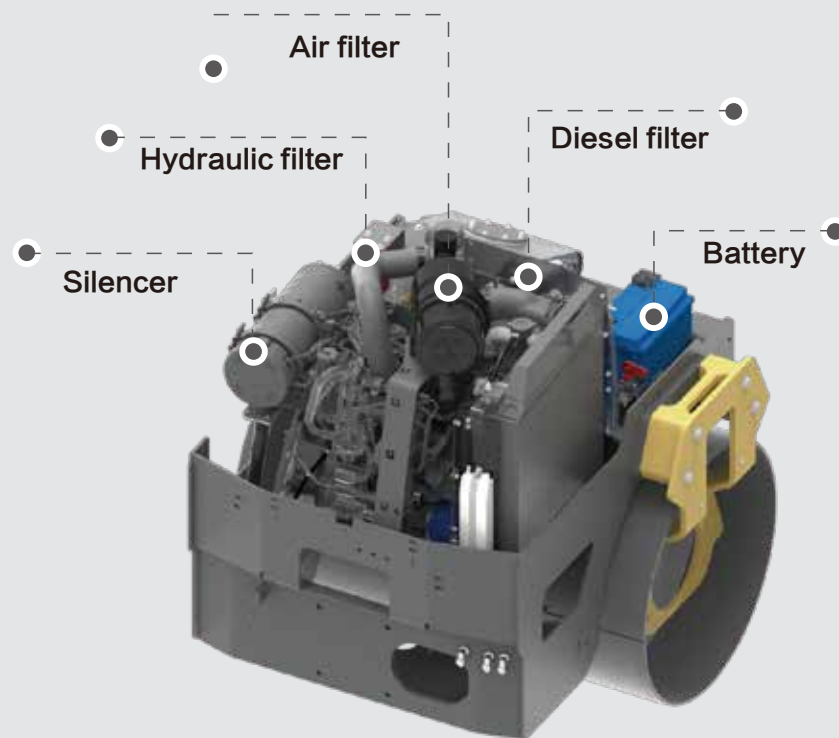
Convenient maintenance

Large angle opening of hood

Opening angle 75° , sufficient maintenance space

Easily accessible maintenance parts

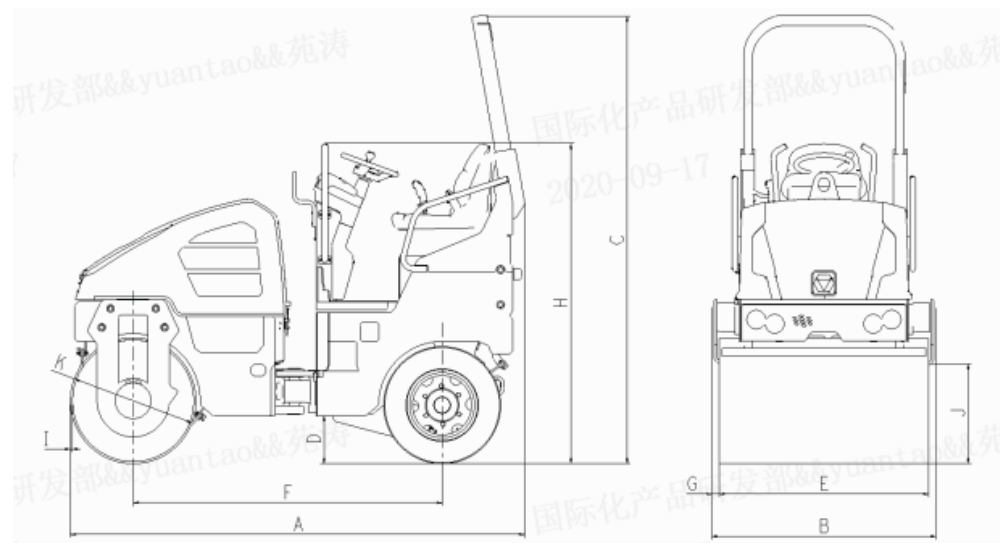
Design of external main maintenance components makes the maintenance simple and fast



Parameter

Item	Description	XD120VT (standard)
Weights	Operating weight	2650kg / 5842lb
	Front axle weight	1350kg / 2976lb
	Rear axle weight	1300kg / 2866lb
	Static linear load	110N/cm
Maneuverability	Working speed	0~10km/h / 0~6mile/h
	Theoretical gradeability	30%
	Minimum turning radius(intern/extern)	2500/3700mm / 98/146in
	Min. ground clearance	275mm / 11in
	Wheel base	1773mm / 70in
	Oscillation angle	± 8°
Compaction Parameters	Braking distance(smooth cement pavement)	<3.4m / <134in
	Vibration frequency	63/67Hz
	Nominal amplitude	0.5mm / 0.02in
	Exciting force (High/low frequency)	36/41kN / 8.1/9.2kip
	Drum diameter	720mm / 28in
Hydraulic System	Drum width	1200mm / 47in
	Charge pressure of drive system	2.5MPa / 25bar
	Relief pressure of drive system	38MPa / 380bar
	Relief pressure of vibration system	20MPa / 200bar
Engine	Relief pressure of steering system	16MPa / 160bar
	Model	KUBOTA D1803-CR-E5B
	Type	Inline 3-cylinder water-cooled type
	Rated power	25kW / 34HP
Others	Rated speed	2400r/min
	Drive system	Hydrostatic closed-loop
	Vibration system	Hydrostatic open-loop
	Service brake	Hydraulic
	Park brake	Mechanic/hydraulic
	Secondary brake	Mechanic/hydraulic
	Steering system	Articulated
	Steering control	Hydraulic

Industrial design and dimensions



Dimensions (mm)	A	B	C	D	E	F	G	H	I	J	K
XD120VT	2610	1286	2575	275	1200	1773	42	1845	11	570	720

Dimensions(in)	A	B	C	D	E	F	G	H	I	J	K
XD120VT	103	51	101	11	47	70	1.7	73	0.4	22	28

Optimum Services , XCMG Guaranteed



XCMG approved attachments



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



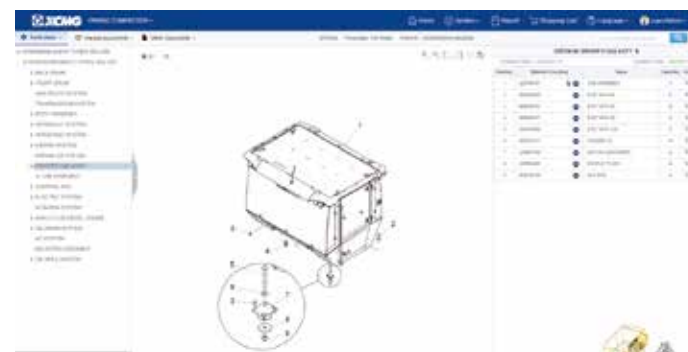
Professional Integrated Complete Solutions

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.

XCMG Global Spare parts System



Mobile cranes



Excavators



Aerial work platforms



Wheel loaders



Road machinery



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