

# Vibratory Roller XD100



XCMG FOR YOUR SUCCESS

Machine dimension(standard):103x43x109in

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 XD100

## Streamline and neat appearance

- 1 > Its unique XCMG series 5 industrial design won the German Red Dot Award in 2020 because of its elegant and magnificent appearance and bright color paint.

## Comfortable and safe control system

- 2 > Bilateral access, bright color paint, ergonomics design principle
  - > Three level damping, suspension damping seat with safety belt and pressure control switch
  - > The foldable ROPS that meet the CE directive avoids the rolling over of the roller and provides the safety protection under extreme conditions
  - > Driving safety and reliability is guaranteed by three means of braking: neutral brake, emergency brake and parking brake
  - > Simple and intuitive waterproof instrument control panel

## Efficient operating performance

- 3 > Manual and automatic vibration control
  - > Dual-frequency single-amplitude vibration exciter provides two kinds of exciter forces for different working conditions
  - > The 67Hz high frequency vibration ensures high compaction efficiency and deep influence
  - > Front drum vibration, rear drum vibration, front and rear drum vibration
  - > 720mm large diameter drum design with good trafficability and high compaction quality
  - > Maintenance-free vibratory drum, all-weather availability with low cost of use

## Environmental friendly and energy saving

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

## Superior trafficability

- 5 > Two gear speeds available
  - > High climbing ability, small turning radius
  - > Normally closed brake
  - > Optional anti-slip device

## Ideal visibility

- 6 > Small front and rear area without visual blind area
  - > Both sides of the steel wheel have a panoramic view, and good welt compaction ability

## Excellent maintenance space

- 7 > 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 for easy maintenance and replacement

## Excellent sprinkling system

- 8 > Two large water tanks prolong continuous working time
  - > Large angle windproof sprinkling nozzles
  - > Three-stage filtration ensures the service life of water pumps and nozzles



# Streamline and neat appearance

## Product model

### XD100

X: XCMG

D: double-axle roller

100: steel wheel width 1000mm

### XD120

X: XCMG

D: double-axle roller

100: steel wheel width 1200mm



> Its unique XCMG series 5 industrial design won the German Red Dot Award in 2020 because of its elegant and magnificent appearance and bright color paint.

> Design style of XCMG's new 5 series, Bright in color, steady and elegant in shape, Awarded 2020 Red Dot Award.



# 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



# High-endurance sprinkler system

## Design of large-capacity double water tank

The capacity of the combined use reaches 230L, greatly improving the endurance mileage

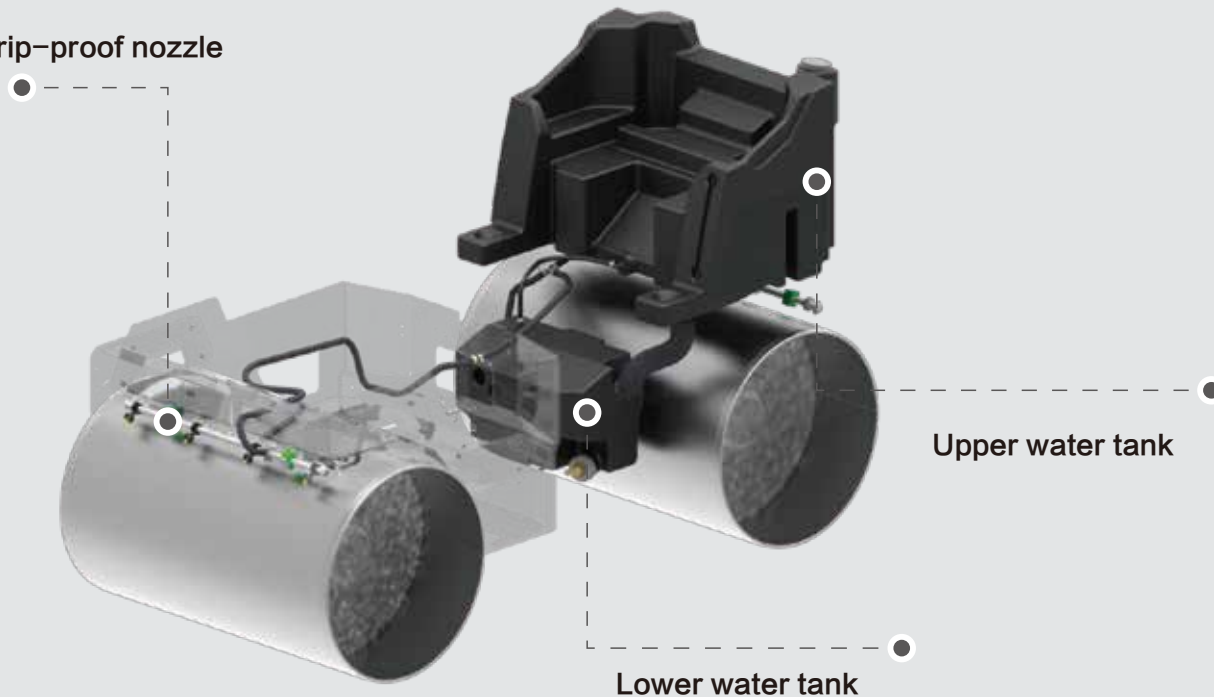
## Five-gear intermittent sprinkling

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 sprinkler system is equipped with an electric sprinkler pump. The pressure sprinkler system uses Germany LECHLER's nozzles to ensure even water sprinkling; Main and auxiliary dual water tank design is equipped with water level indicator device (120 liters main water tank, 80 liters auxiliary water tank, large capacity of water storage) to reduce the number of stop and add water; Filters are installed on the water tank mouth, in front of water pump and nozzles to greatly improves the reliability of the system.





# Design of maintenance free vibrating wheel

## Vibration bearing grease lubrication

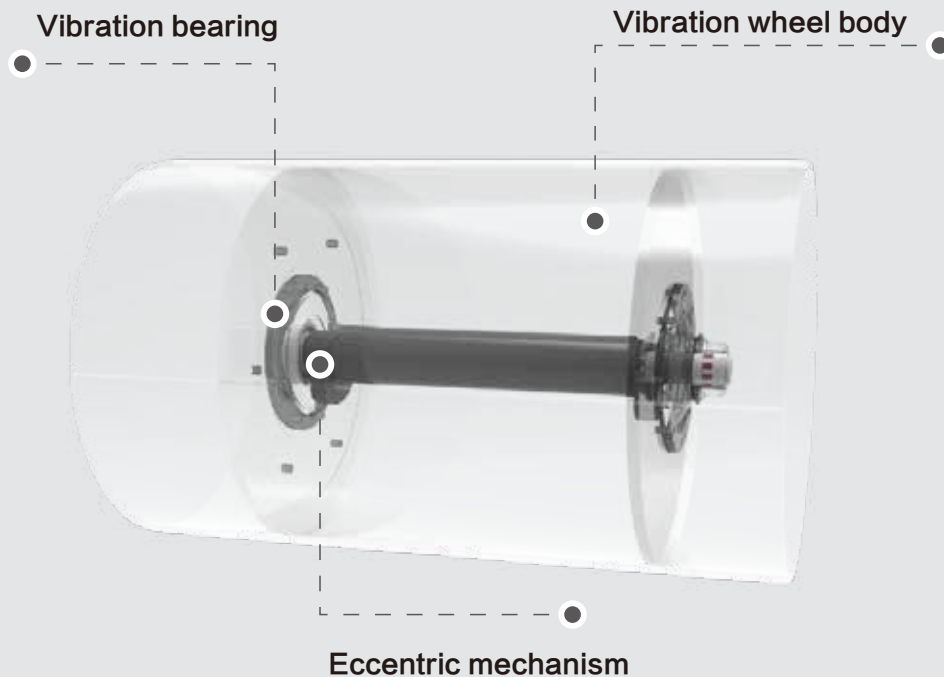
Working life of 10,000 hours, saving maintenance costs

## 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

> Vibratory drum is an important working part. One side of vibratory drum is equipped with a low-speed high-torque hydraulic motor for walking and driving, and the other side of the vibratory drum is equipped with gear motor, which is used to drive the vibration exciter in the vibratory drum and produce exciting force to compact the road surface; 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 vibratory drum, 10,000 hours maintenance-free vibratory bearing, high availability with low cost of use.

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

> 720mm large diameter drum design with good trafficability and high compaction quality.

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



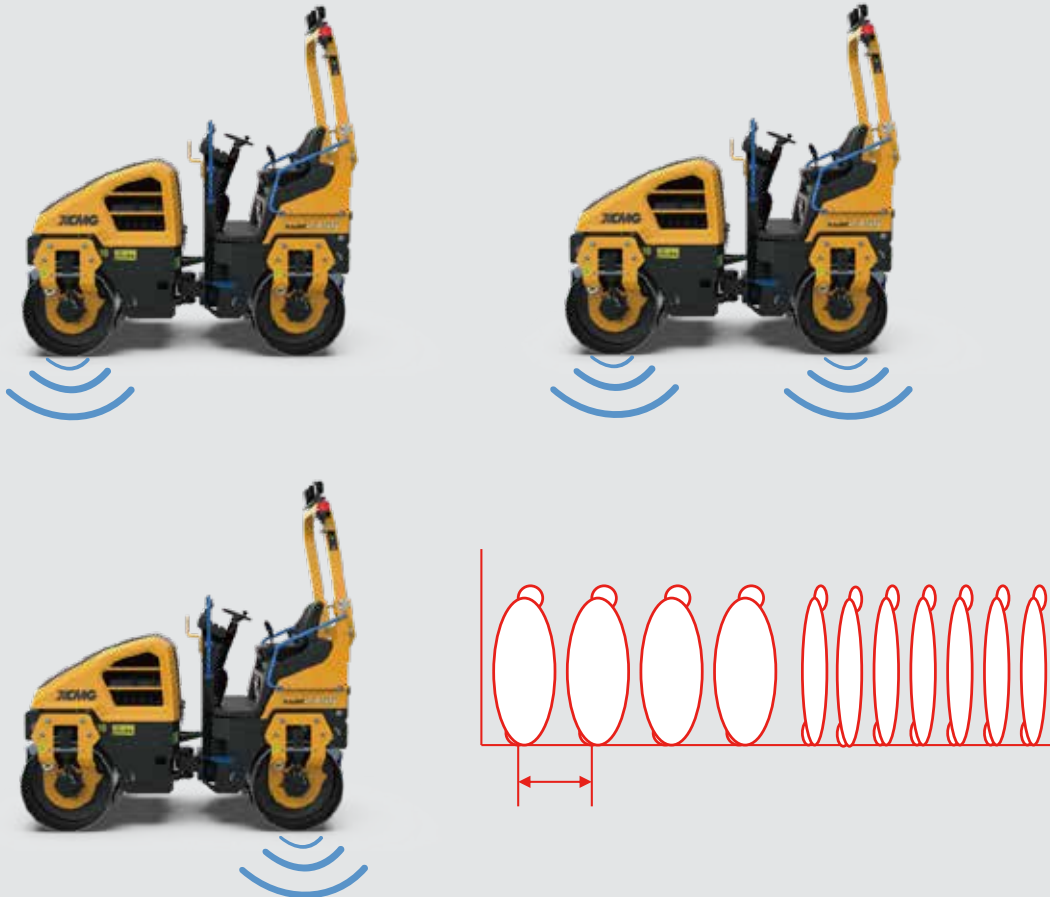
# Efficient compaction performance

## Independent vibration control

The front and rear wheels can vibrate independently or simultaneously

## Dual-frequency vibration system

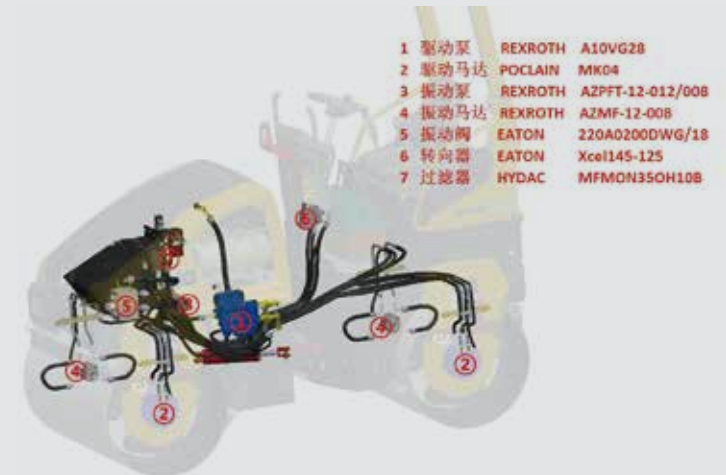
63/67Hz dual frequency and high frequency design to improve work efficiency



## 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 hydraulic vibration system of open circuit can realize the independent vibration and co-vibration of front wheel and rear wheel through solenoid valve control. 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

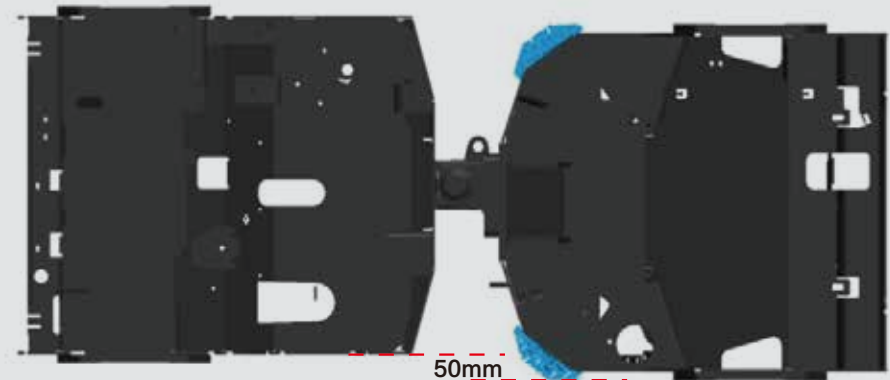
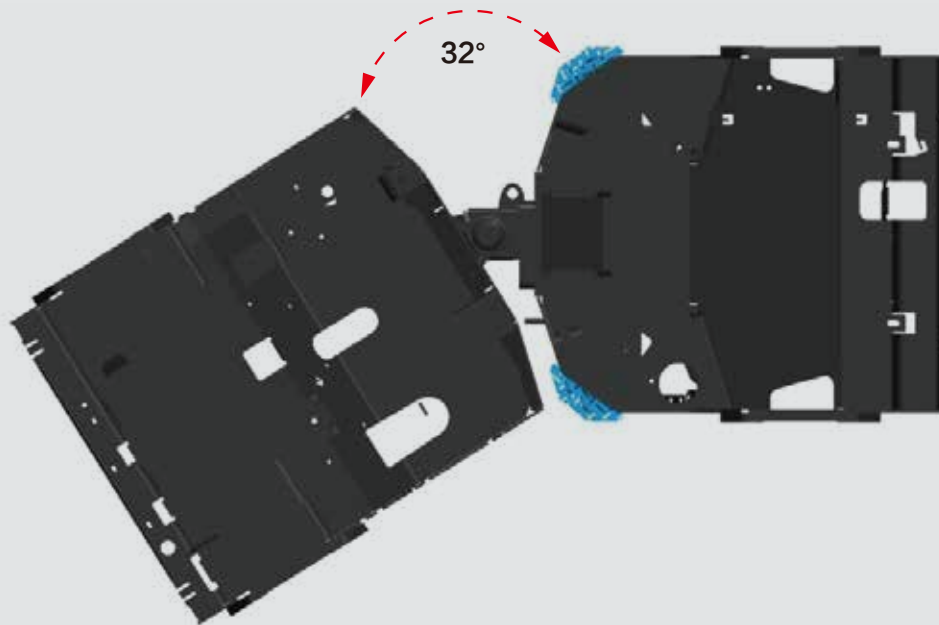
50mm staggered crab motion, extreme edge compaction of curve

## Superior trafficability

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



30% (16.7o)



# 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

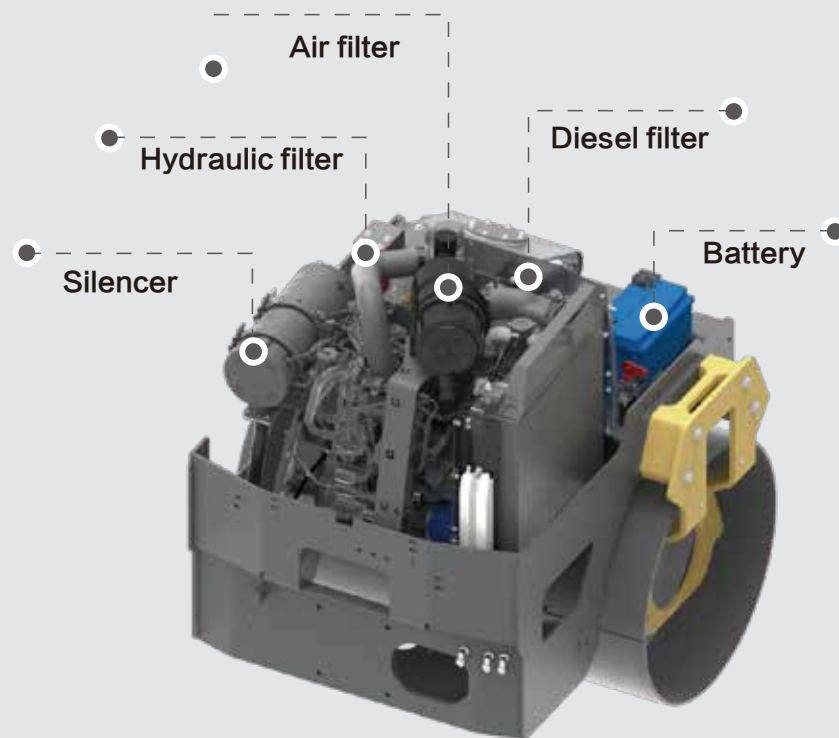
# Convenient maintenance

## Large angle opening of hood

Opening angle 75° , sufficient maintenance space

## Easily accessible maintenance parts

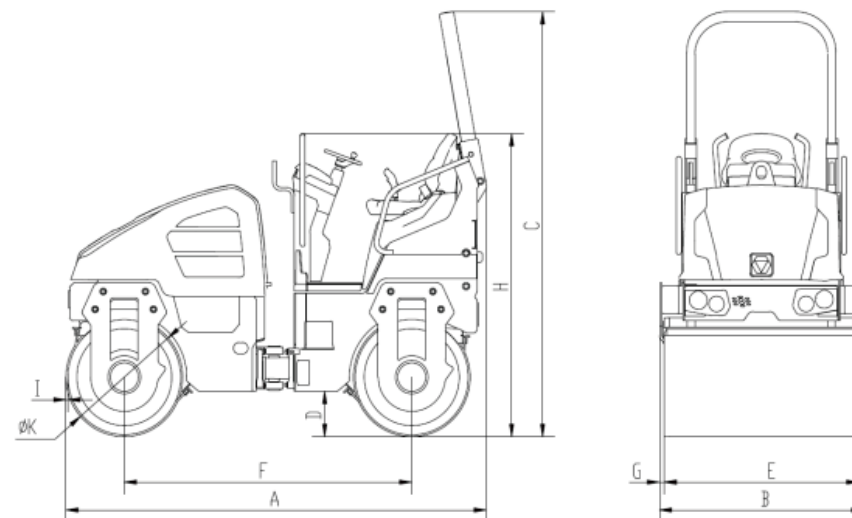
Design of external main maintenance components makes the maintenance simple and fast



# **Parameter**

Item	Description	Standard XD100
<b>Weights</b>	Operating weight	2650kg / 5842lb
	Front axle weight	1250kg / 2756lb
	Rear axle weight	1400kg / 3086lb
	Static linear load	122/137N/cm
<b>Maneuverability</b>	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°
	Braking distance(smooth cement pavement)	<3.4m / <133.9in
<b>Compaction Parameters</b>	Vibration frequency	63/67Hz
	Nominal amplitude	0.5mm / 0.02in
	Exciting force (High/low frequency)	30/34kN / 6.7/7.6kip
	Drum diameter	720mm / 28in
	Compaction width	1000mm / 39in
<b>Hydraulic System</b>	Charge pressure of drive system	2.5MPa / 25bar
	Max. pressure of drive system	38MPa / 380bar
	Max. pressure of vibration system	25MPa / 250bar
	Max. pressure of steering system	16MPa / 160bar
<b>Engine</b>	Model	KUBOTA D1803-CR-E5B
	Type	Inline 3-cylinder water-cooled type
	Rated power	24.6kW / 33HP
	Rated speed	2400r/min
<b>Others</b>	Drive system	Hydrostatic closed-loop
	Vibration system	Hydrostatic open-loop
	Service brake	Hydraulic
	Parking brake	Mechanic/hydraulic
	Emergency brake	Mechanic/hydraulic
	Steering system	Articulated
	Steering control	Hydraulic

# **Appearance and dimensions**



Dimensions (mm)	A	B	C	D	E	F	G	H	I	K
XD100	2610	1086	2575	275	1000	1773	43	1845	12	720

Dimensions (in)	A	B	C	D	E	F	G	H	I	K
XD100	103	43	101	11	39	70	2	73	0.4	28

# Optimum Services , XCMG Guaranteed



XCMG approved attachments



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



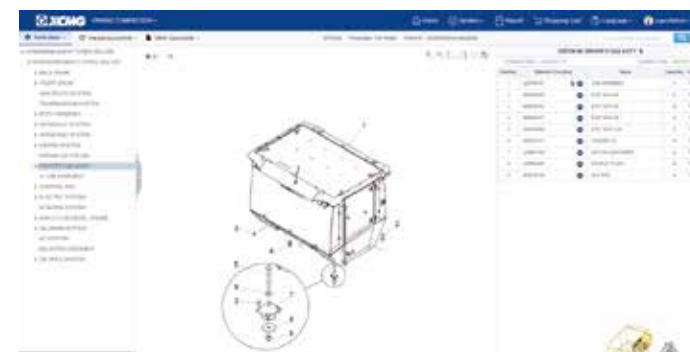
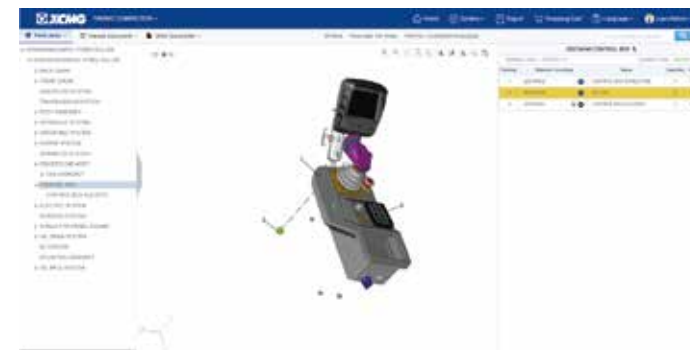
## Professional Integrated Complete Solutions

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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