

SOLID TO SUCCEED



Vibratory Roller

XD140



400-110-9999

Address: No.1, Taoshan Road, Jinshanjiao Economic Development Zone, Xuzhou, Jiangsu.
Zipcode: 221004
Email: road.marketing@xcmg.com
Website: www.xcmgglobal.com

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XD140 dual drive dual vibration vibratory road roller features small amplitude, high frequency vibration, big exciting force as well as independent vibration of front and rear drum. It is mainly applicable to compaction work on asphalt top layer of newly built pavement and thinner stable soil pavement, and road maintenance work. With compact structure, high flexibility, small blind area, high operating comfort, it is an ideal compaction equipment for municipal maintenance and highway custody. Powered by EU stage III four-cylinder water-cooled Kubota engine, suiting ambient temperature of $-10^{\circ}\text{C} \sim 45^{\circ}\text{C}$ and altitude of below 3000 m, in compliance with EU Stage III emission standards.



Main Performance And Characteristics

Its unique XCMG series 5 industrial design combines aesthetics and practice.



2 Comfortable And Safe Control System

- Bilateral access, bright color paint, ergonomics design principle;
- Spacious operating platform provides enough space for operator's movement, operator's seat has three-level shock absorption;
- Foldable CE ROPS provides safety protection under emergency;
- Driving safety and reliability is guaranteed by three means of braking: neutral brake, secondary brake and parking brake;
- Waterproof instrument control panel, simple and intuitive;
- All switch buttons are arranged for clear and intuitive operation;
- Double elbow support, double levers, left and right sliding control mechanism, convenient for edge compaction operation.

3 Efficient Operating Performance

- Dual-frequency single-amplitude vibration exciter provides two kinds of exciter forces for different working conditions;
- 53/60Hz high frequency vibration coordinating with drive speeds suit for compaction on various materials;
- Front drum vibration, rear drum vibration, front and rear drum vibration;
- 920mm large diameter drum design, good traffic performance, high compaction quality;
- Maintenance-free vibration drum, all-weather availability with low cost of use.

4 Superior Trafficability

- Low speed and high torque drive motor, high climbing ability;
- Large steering angle, small turning radius;
- Standard mechanical crab-walk for 50mm distance.

5 Ideal Visibility

- Unique visual field design ensures no blind spots in the visual field of the mobile operator, while enhancing the ability of curb compaction, improving the comfort and safety of the operation;
- The compact machine structure ensures clear view of the drum edge and construction site. Excellent curb compaction performance.

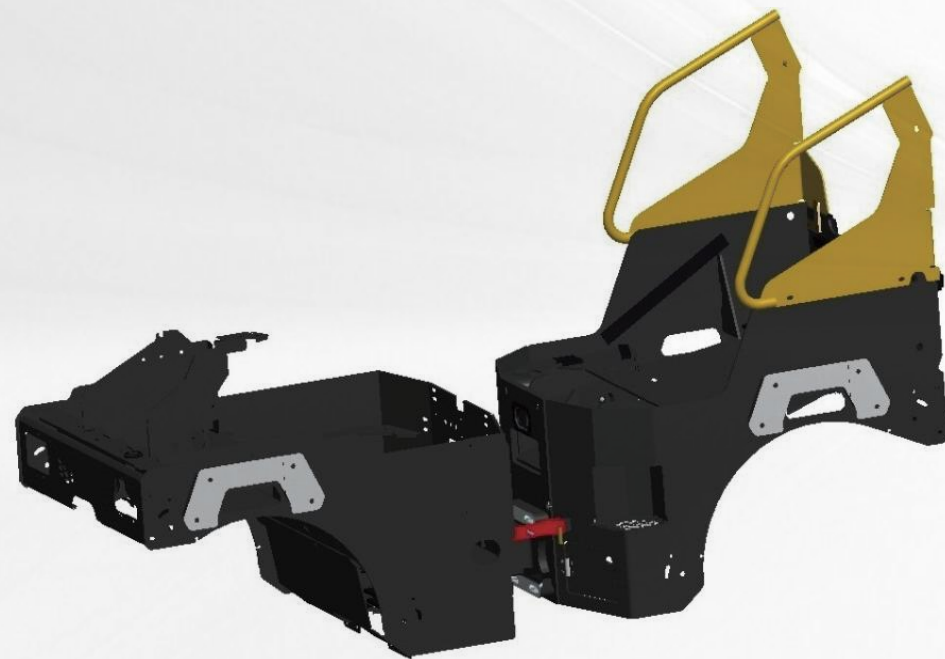
6 Excellent Maintenance Space

- 75° 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;
- Maintenance-free articulated frame, vibrating drum.



Front And Rear Frame

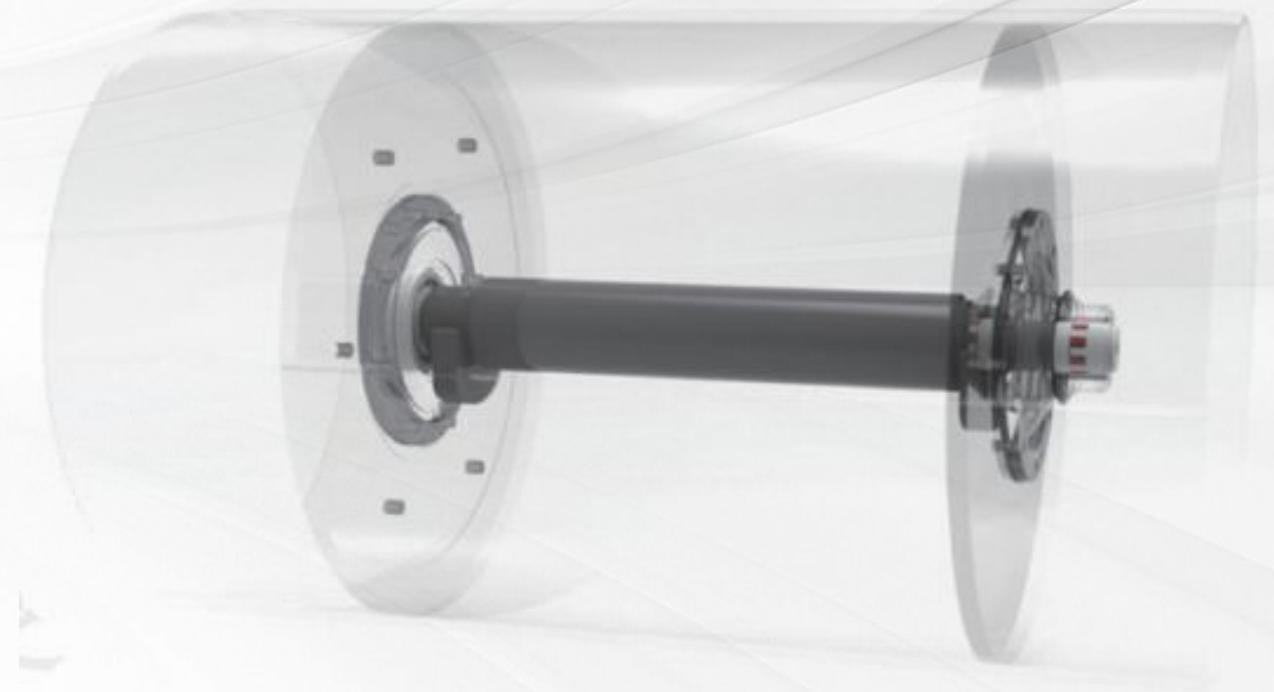
- Frame is composed of front frame, rear frame and articulated mechanism, frame lock-up and arm-rest, etc. The frame is used to connect the front and rear wheels, carry the power system, control system, sprinkler system and other working parts, and provide steering, swing, crab-walk and other functions. The frame is equipped with two side access channels, with traction rings in front and rear. articulated mechanism, frame lock-up and armrest, etc.



Vibration Drum

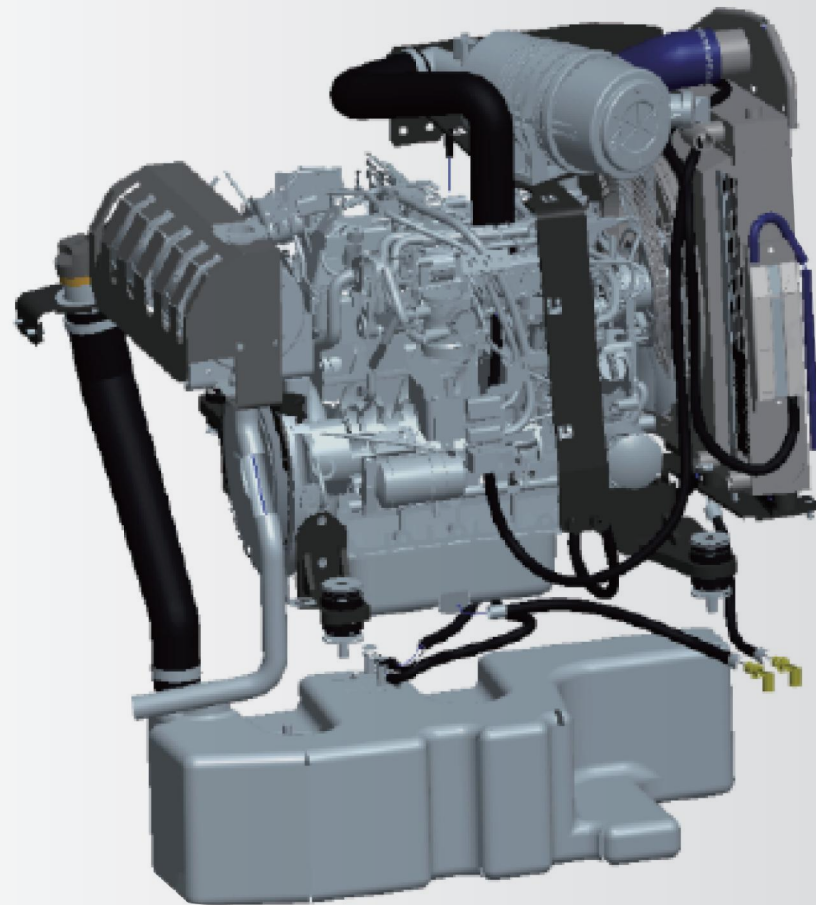
Vibration drum is an important working part. The vibration drum has one side hydraulic motor for propel and the other side gear motor for compaction; the wheel side has hoop bind to fix the roller during transitions.

- 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 and vibration bearing, high availability with low operation cost;
- Dual-frequency single-amplitude vibration exciter provides two kinds of exciter forces for different working conditions.
- 920mm 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.



Power System

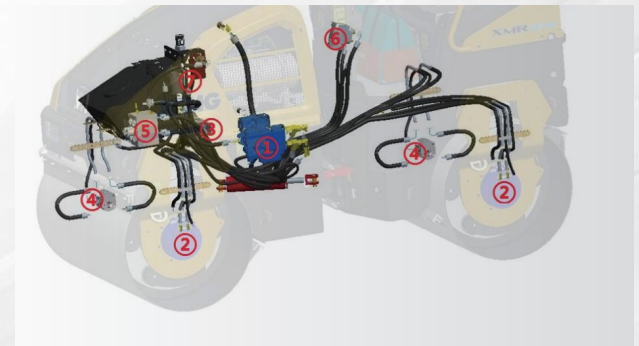
- Diesel engine with water cooling, which meets the China stage IV emission standards. The whole power system is installed on the front frame and connected to the frame through the shock absorber.



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.



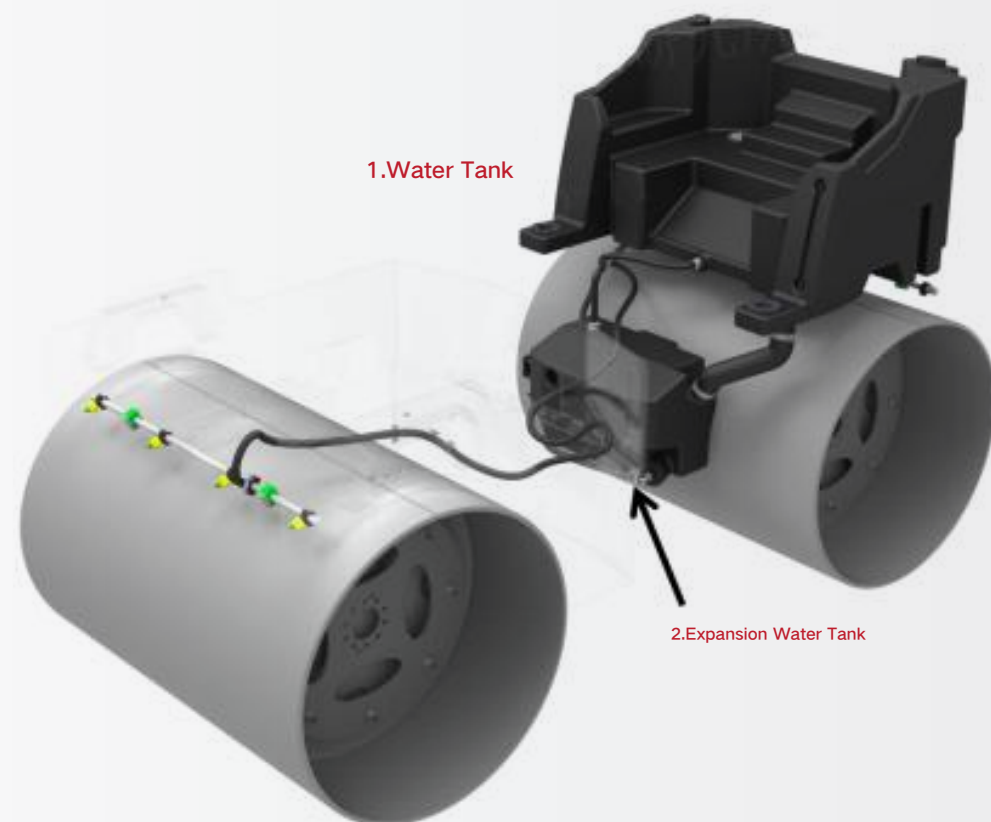
Hydraulic System

The control system consists of control console, instrument box, steering system, propel control system, seat and other components. The control console is connected to the frame by shock absorber, Trelleborg shock absorber has good vibration isolation performance and high comfort performance. The driver's seat can be adjusted to fit different operators; Double control levers, can slide to left and right, maximize the edge compaction field of view; Under the seat is a box for storing documents and toolkit; It is equipped with central lifting device and anti-falling mechanism, which is convenient for lifting during transport.



Water Spray System

- Sprinkler system includes electric pump for electronic controlled sprinkling. nozzles deliver uniform spray atomization; Double water tanks are equipped with water level indicator. The capacity of main water tank and auxiliary water tank are respectively 235 liters and 45 liters, reducing the stop times for water supply; Filter devices are provided at inlet, before water pump and nozzles to improve the reliability of the system.



Electric System

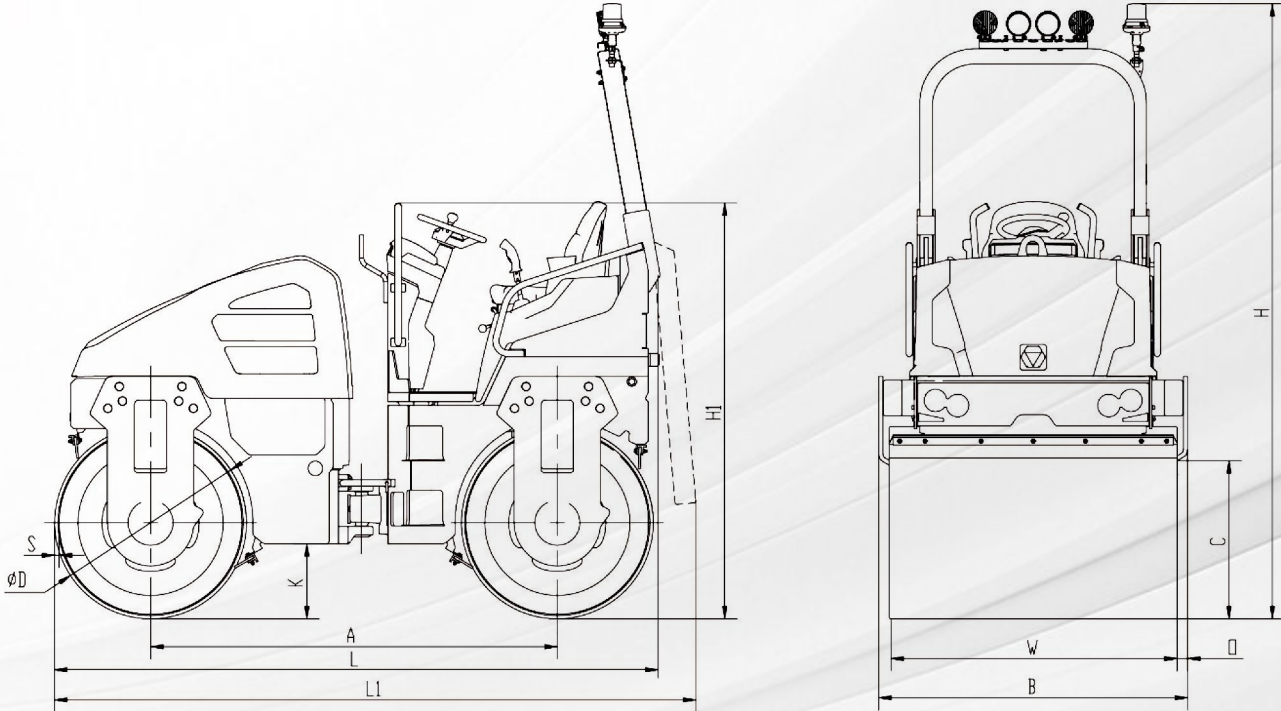
The function of the electric system is to start the engine and power supply for the lighting signal equipment, instrument testing equipment, electronic control equipment and other auxiliary equipment, to ensure the safety of traveling and operation. This electric system consists of a maintenance-free battery of 12V dc, single wire system, minus grounding.



Main Technical Parameters

Items	Content	Unit	XD140
Weights	Operating weight	kg	4300
	Front axle weight	kg	2100
	Rear axle weight	kg	2200
	Static linear load	N/cm	152/160
Propelling	Operating speed	km/h	0~12
	Theoretical gradeability	%	30
	Minimum turning radius(inside/outside)	mm	2700/4100
	Minimum ground clearance	mm	350
	Wheel base	mm	1950
	Oscillation angle	°	±8
	Steering angle	°	±32
	Braking distance(smooth cement pavement)	m	≤3.4
Compaction Performance	Vibration frequency	Hz	53/60
	Nominal amplitude	mm	0.5
	Drum diameter	mm	920
	Drum width	mm	1380
Engine	Model	-	KUBOTA V2403
	Type	-	Inline four-cylinder water-cooled
	Rated power	kW	33.6
	Rated speed	r/min	2400
Miscellaneous	Drive method	-	Hydrostatic closed-loop
	Vibration method	-	Hydrostatic open-loop
	Service brake	-	Hydraulic
	Park brake	-	Mechanic/hydraulic
	Secondary brake	-	Mechanic/hydraulic
	Steering system	-	Articulated
	Steering control	-	Hydraulic

Appearance And Dimensions



Model	L	B	H	K	W	A	O	H1	S	C	D	L1
XD140	2910	1515	2940	350	1380	1950	70	1980	16	750	920	3250

Optimum services , XCMG Guaranteed



Cummins engine



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



Monitoring systems

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 users.

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 servcices are available in order to reduce your total cost of ownership and increase your revenue.

XCMG Global Spareparts System

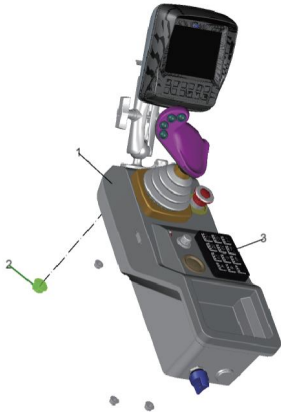
XP305S

Pneumatic Tire Roller

PIN/VIN : XUG03054VKJE02365

225704540 CONTROL BOX

Number	Material Encoding	Name	Quantity	Handle
1	225704532	CONTROL BOX STRUCTURE	1	W ☆
2	895238409	NUT M8	4	W ☆
3	225704541	CONTROL BOX ELECTRIC	1	W ☆



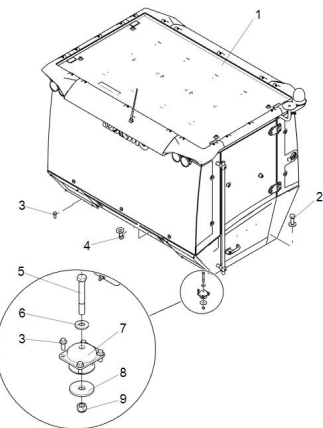
XP305S

Pneumatic Tire Roller

PIN/VIN : XUG03054VKJE02365

225704791 DRIVER'S CAB ASSY

Number	Material Encoding	Name	Quantity	Handle
1	225704791	CAB ASSEMBLY	1	W ☆
2	80500280	BOLT M16-45	9	W ☆
3	805004763	BOLT M10-25	16	W ☆
4	805046571	BOLT M16-30	2	W ☆
5	805046668	BOLT M16-120	4	W ☆
6	805301377	WASHER 16	15	W ☆
7	228901569	SHOCK CABSORBER	4	W ☆
8	229000495	BIG FLAT PLATE	4	W ☆
9	805239158	NUT M16	4	W ☆



XP305S

Pneumatic Tire Roller

PIN/VIN : XUG03054VKJE02365

225704748 DRIVER'S CAB ASSY

Number	Material Encoding	Name	Quantity	Handle
1	225704791	CAB ASSEMBLY	1	W ☆
2	80500280	BOLT M16-45	9	W ☆
3	805004763	BOLT M10-25	16	W ☆
4	805046571	BOLT M16-30	2	W ☆
5	805046668	BOLT M16-120	4	W ☆
6	805301377	WASHER 16	15	W ☆
7	228901569	SHOCK CABSORBER	4	W ☆
8	229000495	BIG FLAT PLATE	4	W ☆
9	805239158	NUT M16	4	W ☆

