

SOLID TO SUCCEED



Light Compaction Equipment

XD120



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XD120 dual-drive dual-vibration vibratory road roller features small amplitude, high frequency vibration, big exciting force as well as separate vibration.

It is mainly applicable to compaction work on asphalt top layer of newly built pavement and thinner stable soil pavement, and road maintenance work.

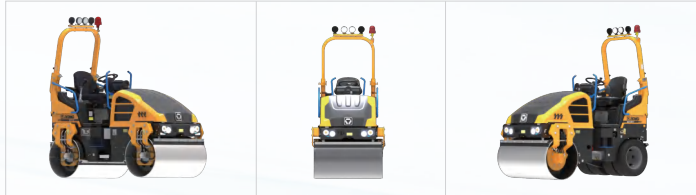
With compact structure, high flexibility, small blind area, high operating comfort, it is an ideal compaction equipment for municipal maintenance and highway custody.

Three 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 won the German Red Dot Award in 2020.



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.
- Comfortable elbow support, easy to fit curb compaction operation.

3 Efficient Operating Performance

- 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.
- Front drum vibration, rear drum vibration, front and rear drum vibration;
- 720mm Large diameter drum design, good traffic performance, high compaction quality;
- Maintenance-free vibration drum, all-weather availability with low cost of use;

4 Environmental Friendly And Energy Saving

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

5 Superior Trafficability

- High climbing ability, small turning radius;
- Normally closed brake;
- Optional anti-slip device;



Ideal Visibility

- Front and rear visibility of relatively small blind area;
- Both edges of the steel drum can be seen, good edge compaction ability.



Excellent Maintenance Space

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



Excellent Sprinkling System

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

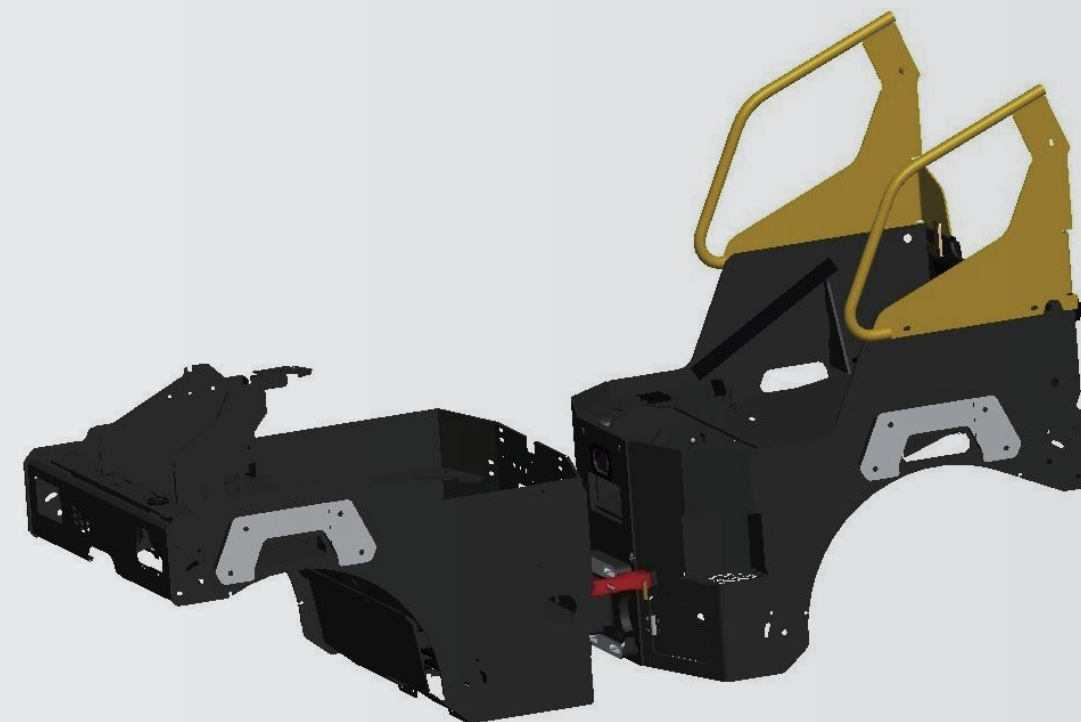


Front And Rear Frame

Frame is composed of front frame, rear frame and articulated mechanism, frame lock-up and armrest, etc.

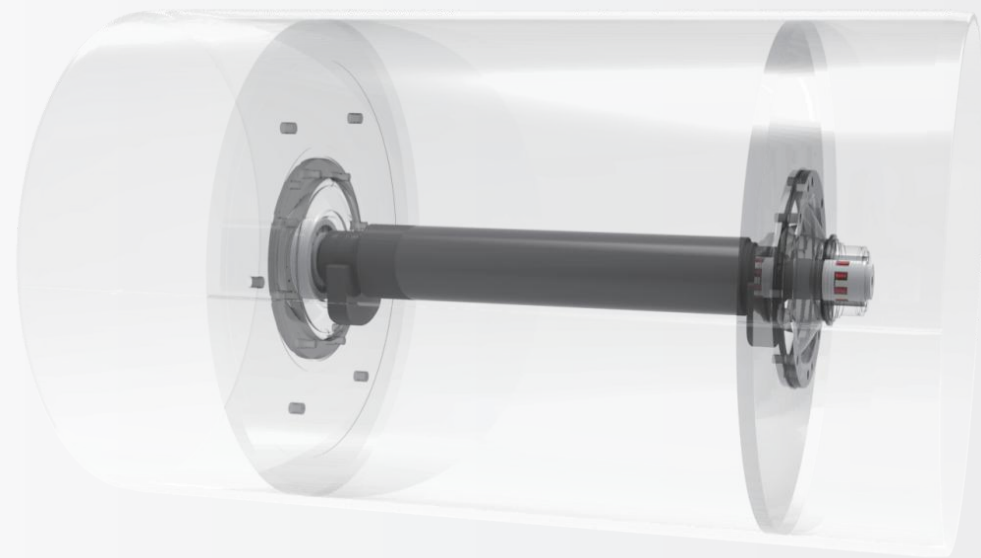
The frame is used to connect the front and rear wheels, carry the power system, control system, sprinkler system and other working parts, and provide steering, swing, crab-walk and other functions.

The frame is equipped with two side access channels, with traction rings in front and rear.



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 vibration drum, all-weather availability with low cost of use;
- 720mm Large diameter drum design, good traffic performance, high compaction quality;
- Dual-frequency single-amplitude vibration exciter provides two kinds of exciter forces for different working conditions.
- Low speed high torque hydraulic motor with mechanical brake, good low speed stability, is the guarantee of perfect construction.



Vibration Drum

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.

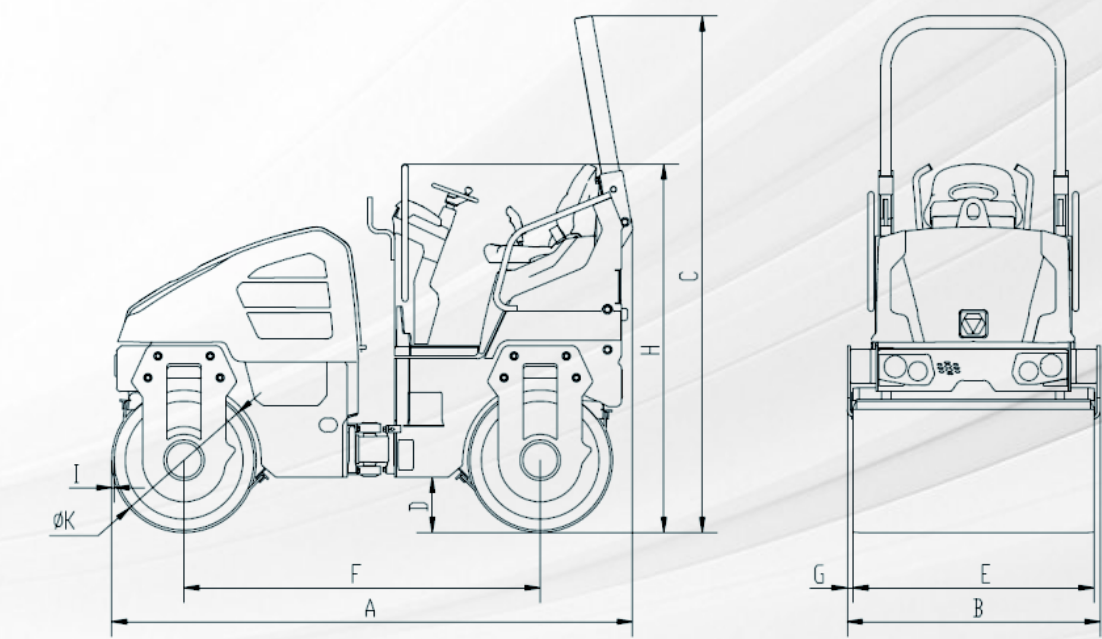
All the main components of the hydraulic system are from the world - renowned manufacturers, market proven higher reliability.



Main Technical Parameters

Items	Content	Unit	XD120 Standard
Weights Parameters	Operating weight	kg	2850
	Front axle weight	kg	1350
	Rear axle weight	kg	1500
	Static linear load	N/cm	110/122
Driving Parameters	Working speed	km/h	0~10
	Theoretical gradeability	%	30
	Minimum turning radius (inside/outside)	mm	2500/3700
	Minimum Ground Clearance	mm	275
	Wheelbase	mm	1773
	Oscillation angle	°	±8
	Braking distance(smooth cement pavement)	m	<3.4
Compaction Parameters	Vibration frequency	Hz	63/67
	Nominal amplitude	mm	0.5
	Excitation force (high/low frequency)	kN	36/41
	Drum diameter	mm	720
	Drum width	mm	1200
Hydraulic System	Charge pressure, drive system	MPa	2.5
	Peak pressure, drive system	MPa	38
	Peak pressure, vibration system	MPa	25
	Peak pressure, steering system	MPa	16
Engine	Model		KUBOTA D1703
	Type		In-line 3-cylinder water-cooled
	Rated power	kW	25.6
	Rated speed	r/min	2600
Miscellaneous	Drive method		Hydrostatic closed-loop
	Vibration method		Hydrostatic open-loop
	Service brake		Hydraulic
	Parking brake		Mechanic/hydraulic
	Secondary brake		Mechanic/hydraulic
	Steering system		Articulated
	Steering control		Hydraulic

Appearance And Dimensions



Model	A	B	C	D	E	F	G	H	I	K
XD120	2610	1286	2575	275	1200	1773	43	1845	12	720

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

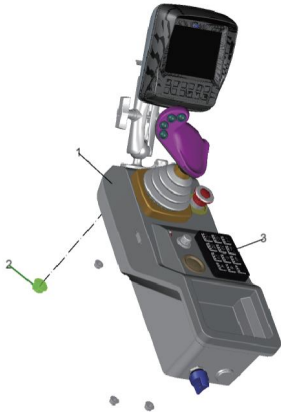
XP305S

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 ☆



XP305SPNEUMATIC-TYRED ROLLER

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BACK DRUM

FRONT DRUM

GAS-ROUTE SYSTEM

TRANSMISSION SYSTEM

BODY ASSEMBLY

HYDRAULIC SYSTEM

OPERATING SYSTEM

ENGINE SYSTEM

SPRINKLER SYSTEM

DRIVER'S CAB ASSY

CAB ASSEMBLY

CONTROL BOX

CONTROL BOX ELECTRIC

ELECTRIC SYSTEM

SCRAPER SYSTEM

SHIELD FOR DIESEL ENGINE

OIL DRAIN SYSTEM

AC SYSTEM

MOUNTING ASSEMBLY

OIL SPILL SYSTEM

2D

3D



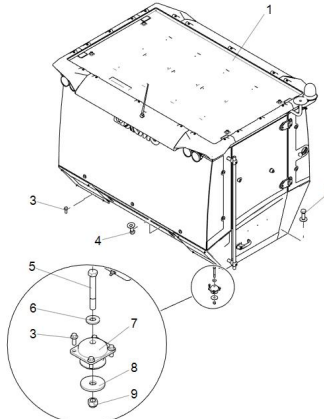
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225704748 DRIVER'S CAB ASSY

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 ☆



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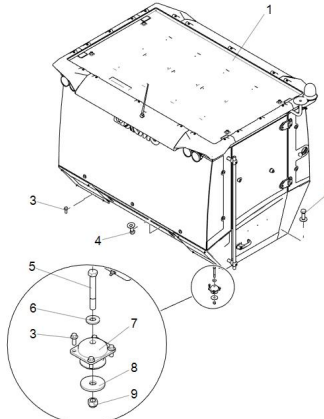
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