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XS163J/XS183J

Single Drum Vibratory Roller



XS163J/XS183J

SINGLE DRUM VIBRATORY ROLLER

Product Description

The XS163J/XS183J vibratory roller is a heavy self-propelled vibratory roller which can compact all kinds of soil layers and rock fill. The machine is suitable for modern highway, airport, embankment filling, harbour, dam, railway and mining operations. It offers different compaction depths and high efficiency.

Performance Characteristics

Comfortable operation

The wide cab design offers a good field of vision and natural light, and can facilitate comfortable and flexible operation.



Easy operation

The machine features an ergonomically designed operation panel with a prominent button layout. The cab is equipped with a synchronised gearbox that reduces control force.



A special drive axle is used for the roller to provide powerful traction.

Reliable and durable hydraulic system

The standard configuration comes with an imported open gear pump and motor featuring a long service life, stable operation and high compaction quality.



Energy saving and green power transmission

The machines use a Shanghai low-noise, water-cooled diesel engine that adheres to National Level II emission standards. The maintenance-free batteries ensure easy start-up and normal operation even in low-temperature environments.



Optional configuration

Optional components include a cab wheel, split cam wheel and an air-conditioned cab.



Efficient and reliable vibration compaction system

A unique cylindrical structure is used to provide good rigidity and strength. Short roller bearings are used to ensure high speed and load capacity. The left and right vibration chambers are arranged symmetrically to ensure even pressure distribution for the vibration wheel.



The vibration bearings can be lubricated easily while the roller is travelling to ensure low failure rate. Manufacturing precision is ensured during production with the use of CNC cutting, coiling and bending machine centres.

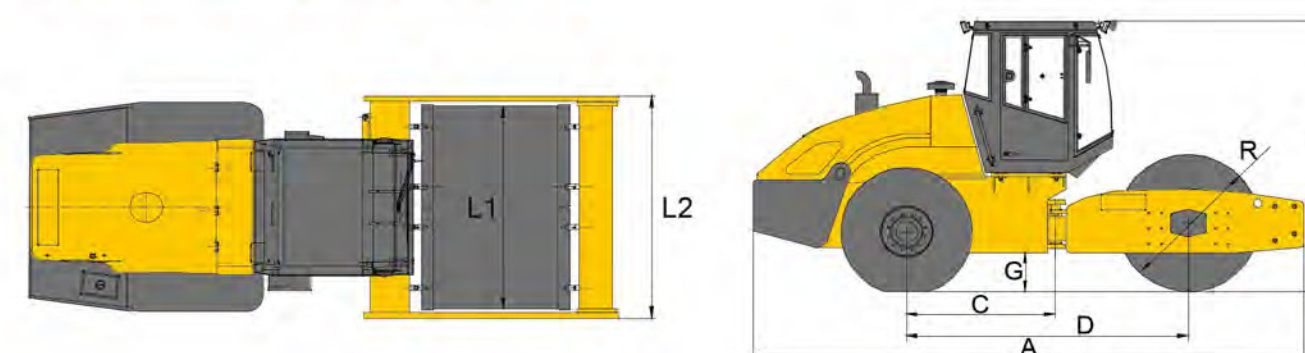
Convenient maintenance

The engine hood can easily be opened wide to ensure convenient access for maintenance.

The engine uses an elevated gas intake to extend the service life of air filters.



Overall Dimensions (mm)



Model	A	B	C	D	G	R	L1	L2
XS163J	6150	3200	1594	3034	448	1523	2130	2340
XS183J	6220	3200	1680	3180	448	1523	2130	2390

Main Technical Parameters

XS163J

XS183J

Item			Unit
Weights	Operating Weight	16000	kg
	Load Applied On Front Drum	7700	kg
Driving Characteristics	Speed Range	F/R	km/h
	Gear I	2.85/2.88	
	Gear II	5.08/5.02	
	Gear III	11.17/-	
	Theoretical Gradeability	30	%
	Min. Outer Turning Radius	6500	mm
	Steering Angle	±33	°
	Swing Angle	±11	°
Compaction Characteristics	Static Linear Load	362	N/cm
	Vibration Frequency	28	Hz
	Nominal Amplitude(H/I)	1.9/0.95	mm
	Exciting Force @ H/I Amplitude	290/145	kN
Engine	Engine Model	Shanghai Diesel Engine SC4H140.192 Shanghai Diesel Engine SC8D156.2G2B1	
	Type	/	/
	Max.power	103	kW
Service Refill Capacities	Hydraulic Tank Capacity	170	L
	Fuel Tank Capacity	310	L