XCMG

XS123

VIBRATORY ROLLER

XS123/XS123PD is a medium-sized, self-propelled, single drum, hydraulic vibratory roller special designed for overseas markets. This product fulfills the requirements of the European Tier 3 emission standards. Featuring large exciting force, high compaction efficiency and good compaction quality, it is widely used in compaction work on base layer, sub-base layer and rock fill for roads, railways, airports, harbors, dams and industrial construction sites.

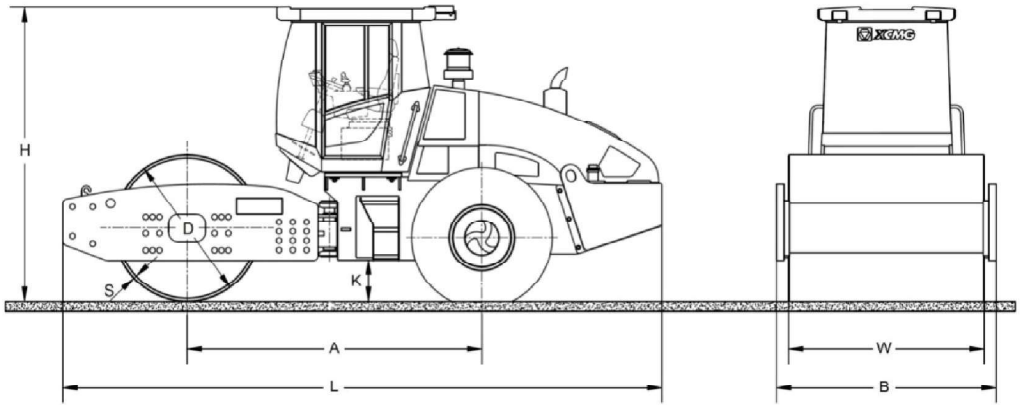
Performance Characteristics

- Cummins QSF3.8 water cooled turbocharged engine with high power reserve, low fuel consumption and low noise emission
- Proportional ASC closed loop hydraulic drive system is composed of variable displacement pump and constant motor to ensure better drive performance and gradeability. Two gears infinitely variable speeds ensure optimized working speeds under different working conditions.
- The medium wet type drive axle with anti-slip differential, which realizes automatic torque allocation according to road condition. It allows the roller to reach max tractions under any working condition.
- With variable displacement piston pump and constant displacement hydraulic motor. Dual vibrating frequency and amplitude, coupled with optimized match of static linear load and centrifugal force enable the machine to deliver excellent compaction performance over materials of varied layer thickness.
- Braking system is made up with drive axle, wet type brakes at front drum speed reducer, and brake of closed hydraulic system. It owns traveling, parking, and emergency braking functions to ensure driving safety.
- The inner-cylinder chamber structural drum is simple and robust; dual frequency and dual vibration function, big static pressure and exciting force enables high working efficiency; special vibration bearing has long lifetime and high reliability.
- Taking ergonomics into full consideration, the front steering, the right control structure, control box integrated colorful display, combination keypad, CAN bus joystick, function keys and fault indicator light, engine start switch, etc., are all comfortable to operate. Air suspension seat, multi direction and rigidity adjustments, suitable for drivers of different body shapes.
- The well sealed cab installed with ROPS, radio-tape recorder, air conditioner, large glasses and suspended seat delivers a spacious, safe and comfort operation environment with all-around visibility.
- Engine hood tilts forward largely and easily for better access to the maintenance parts.

徐工道路机械事业部
ROAD MACHINERY BUSINESS UNIT XCMG

XS123 VIBRATORY ROLLER

Main Dimensions



Dimensions (mm)	A	B	D	H	K	L	S	W
XS123	3010	2300	1523	3150	393	5940	30	2130
XS123PD	3010	2300	1523	3250	443	5940	30	2130

Main Specifications

Item	Content	Unit	XS123 (smooth drum)	XS123PD (Padfoot drum)
Weights Parameters	Operating weight	kg	12000	12850
	Front axle weight	kg	6700	7550
	Rear axle weight	kg	5300	5300
	Static linear load	kg/cm	31.5	–
Propel Performance	Operating speed	km/h	0~5.5; 0~11.2;	0~5.5; 0~11.2;
	Theoretical gradeability	%	45	45
	Minimum turning radius(intern/extern)	mm	4500/6800	4500/6800
	Ground clearance	mm	393	443
	Wheel base	mm	3010	3010
	Steering angle	°	±30	±30
	Oscillation angle	°	±10	±10
	Braking distance	m	3.9	3.9
Compaction Performance	Vibration frequency	Hz	30/35	30/35
	Nominal amplitude	mm	1.8/0.9	1.6/0.8
	Exciting force (High/low frequency)	kN	280/190	280/190
	Drum diameter	mm	1523	1523
	Drum width	mm	2130	2130
Hydraulic System	Charge pressure of drive system	MPa	2.4	2.4
	Relief pressure of drive system	MPa	35	35
	Relief pressure of vibration system	MPa	30	30
	Relief pressure of steering system	MPa	16	16
Engine	Model	–	QSF3.8	QSF3.8
	Type	–	Electronic control water-cooled	Electronic control water-cooled
	Rated power	kW	104	104
	Rated speed	r/min	2200	2200
Tire	Spec.	–	23.1-26-12G23TL	23.1-26-12R1TL
	Ply rating	–	12	12
	Air pressure	kPa	200	170