

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.

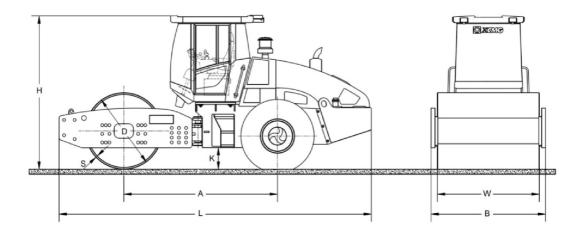
Performance Characteristics

- 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.



VIBRATORY ROLLER

Main Dimensions



Dimensions (mm)	Α	В	D	Н	K	L	S	W
XS123	3010	2300	1523	3150	393	5940	30	2130
XS123PD	3010	2300	1523	3250	443	5940	30	2130

Main Specifications

Weights Parameters Coperating weight kg 12000 12850 Parameters Front axle weight kg 6700 7550 Rear axle weight kg 5300 5300 Static linear load kg/cm 31.5 - 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 Propel Ground clearance mm 3010 3010 Steering angle ° ±30 ±30 ±30 Oscillation angle ° ±10 ±10 ±10 Braking distance m 3.9 3.9 3.9 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 width mm 2130 2130 Charge pressure of drive system
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HydraulicRelief pressure of drive systemMPa3535SystemRelief pressure of vibration systemMPa3030
System Relief pressure of vibration system MPa 30 30
Teller pressure of vibration system
Relief pressure of steering system MPa 16 16
Model - QSF3.8 QSF3.8
Type – Electronic control water-cooled Electronic control water-cooled
Engine Rated power kW 104 104
Rated speed r/min 2200 2200
Spec 23.1-26-12G23TL 23.1-26-12R1TL
Tire Ply rating – 12 12
Air pressure kPa 200 170

