

**BROOKS**  
EQUIPMENT



# DESIGNED TO PERFORM



## VIBRATORY ROLLERS

**XS83**  
**XS83PD**

Product Specifications

OPERATING WEIGHT  
**8 t (Smooth) 8.73 t (Padfoot)**

RATED POWER  
**74/99 kW/HP**

VIBRATION FREQUENCY  
**30/35 Hz**

ENGINE  
**Cummins QSF3.8**



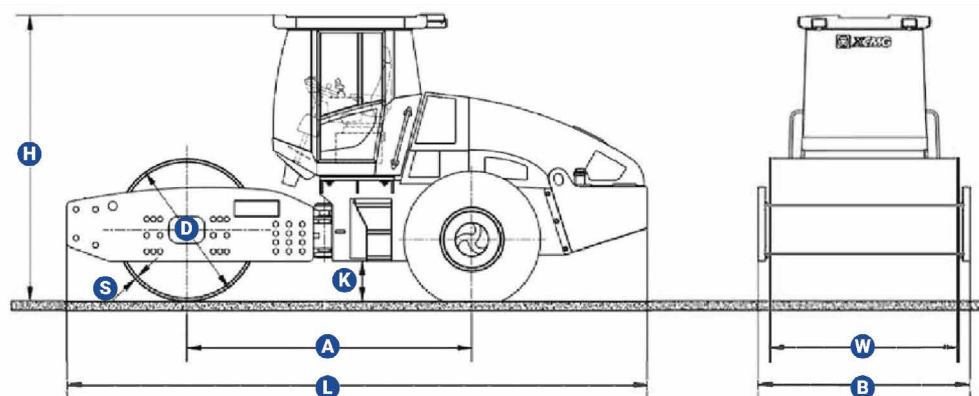
## **SPECIFICATIONS**

The XCMG XS83 vibratory road roller is a new generation of technology and maximised performance. The XS83 roller is uniquely powerful, rugged, energy efficient, safe and consistent – as well as being simple to maintain. Equipped with a Tier 3 emission Cummins engine, premium hydraulic system and XCMG wet type drive axle, the entire roller offers significant advantages relating to reliability, efficiency, comfort and control. The XS83 vibratory drum roller is available as either Smooth Drum or Padfoot Drum variants, offering you options to best suit your requirements.

## **FEATURES**

- 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 composed of variable displacement pump and constant motor – ensures better drive performance and gradeability.
- Medium wet type axle with anti-slip differential provides automatic torque allocation and max traction to suit the road condition.
- Variable displacement piston pump and constant displacement hydraulic motor result in dual vibrating frequency and amplitude for excellent compaction.
- Inner-cylinder drum chamber is simple and robust for excellent performance, long lifetime and high reliability.
- Ergonomic cabin with air conditioning, CANBUS joystick controls, control box integrated colour display, suspension seat and much more, for easy operation in maximum comfort.
- Intelligently designed windows and a high operator seat position ensure the work area around the drum is clearly visible during operation.
- Engine hood tilts forward expansively and easily (push button) for better access to the maintenance parts.





Dimensions (mm)	A	B	D	H	K	L	S	W
XS83 Smooth Drum	2680	1860	1220	3040	270	5355	20	1680
XS83PD Padfoot	2680	1860	1220	3120	330	5355	20	1680

## TECHNICAL SPECIFICATIONS

WEIGHT PARAMETERS	SMOOTH	PADFOOT
Operating weight	8000 kg	8730 kg
Front axle weight	3800 kg	4530 kg
Rear axle weight	4200 kg	
Static linear load	221.7 kg/cm	-

### PROPEL PERFORMANCE

Operating speed	0-5; 0-11 km	
Theoretical gradeability	50%	
Min. turning radius	4000/5860 mm	
Ground clearance	270 mm	330 mm
Wheel base	2680 mm	
Steering angle	+- 33	
Oscillating angle	+- 10	
Braking distance	3.9m	

### COMPACTION PERFORMANCE

Vibration frequency	30/35 Hz	
Nominal amplitude	1.8/0.9 mm	1.5/0.75 mm
Exciting force (High/ low frequency)	125/85 kN	
Drum diameter	1220 mm	
Drum width	1680 mm	

HYDRAULIC SYSTEM	SMOOTH	PADFOOT
Charge pressure of drive system	24 MPa	
Relief pressure of drive system	38 MPa	
Relief pressure of vibration system	30 MPa	
Relief pressure of steering system	14 MPa	

### ENGINE

Model	Cummins QSF3.8
Type	Electronic control water-cooled
Rated power	74/99 kW/HP
Rated speed	2200 RPM

### TYRES

Spec.	405/70-24-16PR EMR1
Ply rating	16
Air pressure	380-400 kPa

