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CV123U/CV123PDU

Tier4 Final Engine

Single Drum Vibratory Rollers



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Engine

Model : Cummins QSF3.8
Rated Power : 130hp@2200rpm
97kW@2200rpm

Compaction Performance

Working Mass : 12400 kg (27280 lb)
Static Linear Load : 31.5 kg/cm(175.7 pli)
Centrifugal Force : High Amp:280 kN (62944 lbf)
Low Amp:190 kN(42712 lbf)

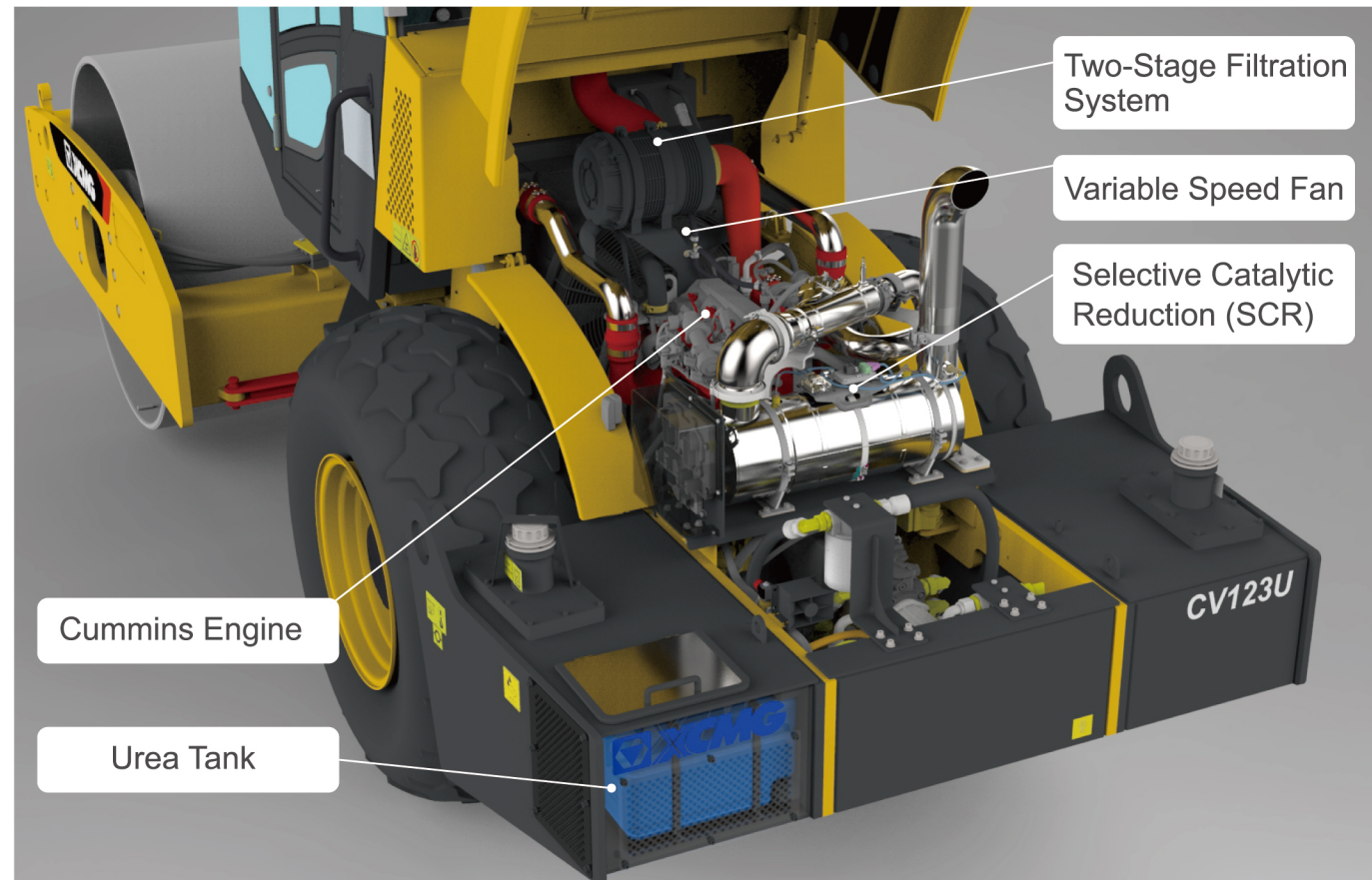
Vehicle Performance

Max.vehicle Speed : 11.2 km/h (6.96 mph)
Min.turning Radius : 6800 mm (267.9 in)
Max.gradeability : 45 %

DETAILED INTRODUCTION OF PRODUCT HIGHLIGHTS

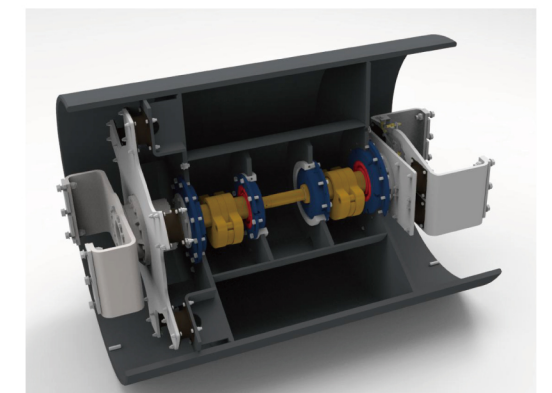
Superior Power Performance

- Cummins QSF3.8 engine, 97kW(130 hp) @2200 rpm;
- SCR after treatment device, fulfilling the requirements of the United States Tier 4F emission standards;
- Variable speed cooling fan, reducing fuel consumption, low noise;
- High capacity radiator, for cooling under extremely conditions;
- Air pre-filter and air filter constitute two-stage filtration system;
- Fuel filter, oil filter and oil replacement cycle is up to 500 h.



Excellent Compaction Performance

- DANFOSS plunger pump and piston motor constitute the hydrostatic vibration system;
- Dual frequency, dual amplitude, suitable for various construction conditions;
- Inner cylindrical vibrating chamber structure, high rigidity and strength;
- Dedicated vibration bearing, high reliability, long service life.



Padfoot Shell And Tire Specification

- Customer may, according to the requirements of the construction, choose smooth drum, padfoot drum and padfoot shell;
- Optional agriculture tire or diamond tire, meeting the demands of the various working conditions.



Strong Driving Ability

- DANFOSS variable plunger pump and piston motor constitute the closed hydrostatic system;
- DANA heavy load wet drive axle;
- Anti-slip system ensures driving ability under toughest conditions;
- Two gear infinite variable speed.



Safe And Comfortable Control Platform

- ROPS/FOPS cab. The interior space is large, wide vision, good sealing performance, low noise;
- Configuration of air conditioning further improves the driver's comfort;
- Air suspension seat. Good damping effect, fore and back, up and down adjustable;
- Electronic control joystick. Integrated vibration button, comfortable manipulation.



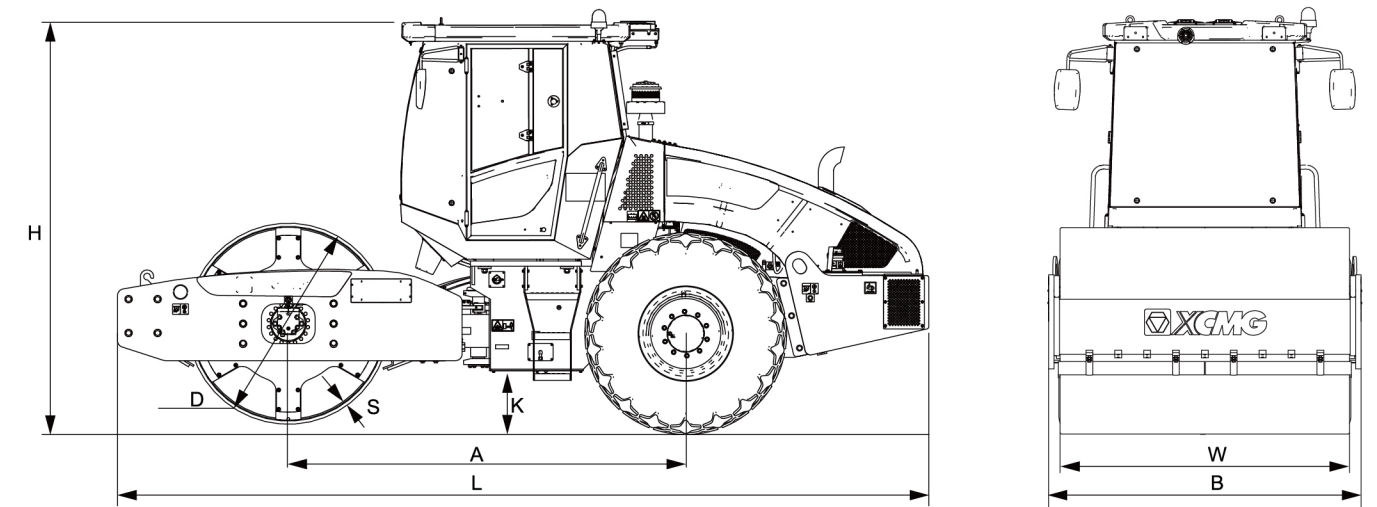
Convenient Maintenance

- Engine hood is electronically controlled hydraulic open mode, easy to operate;
- With a near verticle opening, the hydraulically actuated hood provides good access to the various filters and maintenance points.



TECHNICAL PARAMETERS

Category	Item	Unit	Parameter	CV123U	CV123PDU
Weight	Operating Weight	kg(lb)		12400(27280)	13250(29150)
	Weight At Drum	kg(lb)		6700(14740)	7550(16610)
	Weight At Axle	kg(lb)		5700(12540)	5700(12540)
	Static Linear Load	kg/cm(pli)		31.5(175.7)	-
Driving Performance Data	Driving Speed(Gear I)	km/h(mph)		0~5.5(0~3.4)	0~5.5(0~3.4)
	Driving Speed (GearII)	km/h(mph)		0~11.2(0~6.96)	0~11.2(0~6.96)
	Theoretical Gradeability	%		45	45
	Minimum Turning Radius	mm(")		6800(267.9)	6800(267.9)
	Tire Specification			23.1-26-12G23TL	23.1-26-12R1TL
	Ply Rating			12	12
	Air Pressure	kPa		150~170	150~170
Power System	Engine Manufacturer			Cummins	Cummins
	Type			QSF3.8	QSF3.8
	Rated Power	kW(hp)		97(130)	97(130)
	Rated Speed	rpm		2200	2200
Voltage		V		24	24
Vibratory System	Vibrational Frequency	Hz(vpm)		30/35(1800/2100)	30/35(1800/2100)
	Nominal Amplitude	mm(")		1.8/0.9(0.071/0.035)	1.7/0.85(0.067/0.033)
	Exciting Force	kN(lbs)		280/190(62944/42712)	280/190(62944/42712)
Volume	Engine Oil	L(gal)		16.3(4.3)	16.3(4.3)
	Fuel Tank	L(gal)		230(60.8)	230(60.8)
	Def Refill Capacity	L(gal)		18.9(5)	18.9(5)
	Hydraulic Tank Capacity	L(gal)		150(39.7)	150(39.7)
	Coolant	L(gal)		22(5.83)	22(5.83)
	Front Drum Chamber	L(gal)		40(10.6)	40(10.6)
	Front Drum Reducer	L(gal)		3(0.78)	3(0.78)



UNIT: mm(")

Size	A	B	D	H	K	L	S	W
CV123U	3010(118.5)	2300(90.6)	1523(60.0)	3150(124.0)	393(15.5)	6150(242.1)	30(1.2)	2130(83.9)
CV123PDU	3010(118.5)	2300(90.6)	1523(60.0)	3150(124.0)	443(17.4)	6150(242.1)	30(1.2)	2130(83.9)

MACHINE OPTIONS

Working Conditions	Layer Thickness mm(")	Smooth Drum CV123U	Padfoot Drum CV123PDU
Sandy Soil	150-300(5.9-11.8)	●	■
	300-450(11.8-17.7)	▲	■
Clayed Soil	150-300(5.9-11.8)	▲	●
	300-450(11.8-17.7)	■	▲
Sludge, Coal, Ash, Hard Wastes	150-300(5.9-11.8)	▲	●
	300-450(11.8-17.7)	▲	▲
Pebbles, Gravel, Solid Foundation	150-300(5.9-11.8)	▲	■
	300-450(11.8-17.7)		■

■ Available ▲ Good ● Excellent