



XS123

SINGLE DRUM VIBRATORY ROLLER

单钢轮振动压路机

XS123 single drum roller is medium, self-propelled, full-hydraulic vibratory roller, has the big exciting force, high compaction efficiency, good compaction quality, used mainly for compaction operation of base coarse, sub-base coarse, stone filling of high-speed railway, high-grade highway, airport, harbor, dams and industrial construction site.

XS123单钢轮压路机产品是一种中型、自行式、单钢轮、全液振振动压路机，具有激振力大、压实效率高、压实质量好等特点，它广泛用于高速铁路、高等级公路、机场、港口、堤坝及工业建筑工地的基础层、次基础层及岩石填方的压实作业。

Performance Characteristics / 性能特点

- Equipped with Cummins electrical control engine, water-cooled, turbocharged with big power reservation, low oil consumption, small noises. Europe stage II emission standard. Compliant with National II Emission Standard.
- Adopt imported closed hydraulic drive system composed of variable displacement pump and motor to ensure better drive performance and gradeability. Two gears infinitely variable speeds to ensure optimized working speeds under different working conditions.
- The machine is equipped with imported middle 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 imported 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 travelling, parking, and emergency braking functions to ensure driving safety.
- Simple in structure, the inner cylindrical vibrating chamber provides high rigidity and strength. With double frequency and resonance function, large static line and exciting force, high efficiency, dedicated vibrating bearings are used on the machine to deliver long service life and high reliability.
- With large angle engine hood make the repair part easy accessible.
- 配备康明斯电控发动机，水冷、涡轮增压，功率储备大，油耗低、噪音小。排放符合国 II 标准。
- 采用进口变量泵定量马达组成的闭式液压系统，确保压路机具有良好的驱动性能和较高的爬坡能力。两档无级变速，确保在不同工况下以最适宜的速度进行作业。
- 采用湿式驱动桥，带防滑差速器，能够根据路面状况自动实现扭矩分配，确保压路机在各种工况下均能发挥其所需最大牵引力。（标配徐工湿式驱动桥，可选配戴纳进口湿式驱动桥）
- 采用进口变量泵定量马达组成闭式液压系统，双频、双幅，科学合理的静线载荷与激振力配置，确保对不同类型的材料、不同厚度的铺层进行有效压实。
- 由驱动桥、振动轮边减速器上的多片湿式制动器和闭式液压系统的静液制动组成制动系统，具有行车、停车、紧急三种功能，确保驾驶安全可靠。
- 振动轮采用内筒式振动室结构形式，其结构简单、强度高、刚性好，具有双频双振功能，静线压力以及激振力大，作业效率高，振动轴承采用专用振动轴承，寿命长，可靠性高。
- 大角度前翻的发动机罩，使得维修部位一览无遗。



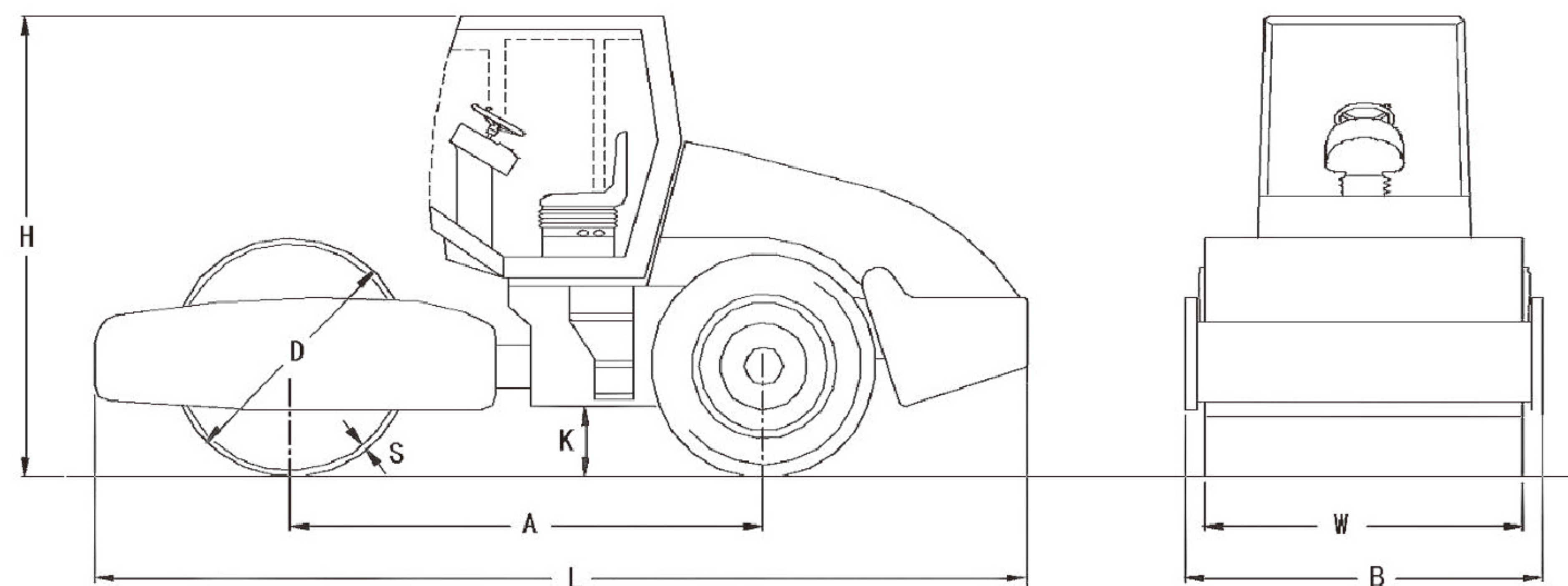
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单钢轮振动压路机

Main Dimensions

主要尺寸



Dimension 尺寸 (mm)	A	B	D	H	K	L	S	W
XS123	3010	2300	1523	3150	417	5940	30	2130

Main Specifications

主要技术参数

Item		项目		单位 Unit	XS123	
Mass 质量	Maximum operating mass		最大工作质量		kg	12000
	Front wheel mass distribution		前轮分配质量		kg	6700
	Rear wheel mass distribution		后轮分配质量		kg	5300
Engine 发动机	Model		型号		4BTAA3.9-C125	
	Rated power		额定功率		kW	93
	Rated speed		额定转速		r/min	2200
Compacting performance 压实性能	Static linear pressure		静线压力		N/cm	308
	Vibration frequency	High frequency	振动频率	高频	Hz	35
		Low frequency		低频	Hz	30
	Nominal amplitude	High (at low frequency)	名义振幅	大(低频时)	mm	1.8
		Low (at high frequency)		小(高频时)	mm	0.9
	Exciting force	High (at low frequency)	激振力	大(低频时)	mm	280
		Low (at high frequency)		小(高频时)	mm	190
Driving performance 行驶性能	Speed	Gear I	速度	I 档	km/h	0~4.8
		Gear II		II 档	km/h	0~10.4
	Minimum outer turning radius		最小转弯外半径		mm	6800
	Theoretical gradeability		理论爬坡能力		%	45
	Steering angle		转向角		°	±30
	Oscillation angle		摇摆角		°	±10
Dimension 尺寸	Overall dimensions	Length	整机尺寸	长度	mm	5940
		Width		宽度	mm	2300
		Height		高度	mm	3150
	Wheelbase		轴距		mm	3010
	Minimum ground clearance		最小离地间隙		mm	417
	Diameter of vibrating drum		振动轮直径		mm	1523
	Width of vibrating drum		振动轮宽度		mm	2130