



# XS203J

## SINGLE DRUM VIBRATORY ROLLER

### 单钢轮振动压路机

XS203J vibratory roller is a highly efficient and energy-saving super heavy machinery driven single drum vibratory roller independently developed by XCMG Construction Machinery Co., Ltd.

This product is suitable to the compaction operation of pebbles, sandy soils, moraine soil, blasting rock and clayey soil, as well as the compaction of concrete and stabilized soil base materials in various large projects. It is the ideal compaction equipment for the construction of high-grade highways, airports, harbors, dams and industrial construction sites.

XS203J振动压路机是由徐工集团工程机械股份有限公司自主研发的一款高效节能超重型机械驱动单钢轮振动压路机。主要适用于对地面的压实，适宜于卵石、砂性土壤、冰碛土、爆破岩石和粘性土壤的压实作业，也适宜于各种大型工程中对混凝土、稳定土的基础材料的压实，是建设高等级公路、机场、港口、堤坝及工业建筑工地的理想压实设备。

## Performance Characteristics / 性能特点

- The Shanghai Stage II turbocharged low speed diesel engine is adopted to achieve the best fuel consumption working area and reduce the comprehensive fuel consumption by 10%; The low-speed diesel engine reduces noise emission and enhances the leakproofness of the whole engine to reduce noise by 2dB; Optimized transmission system matching to achieve the best compaction speed and increase the efficiency by 8%.
- The vibration damping device with combined stiffness is adopted in the cab and frame, multidimensional reduction of cab vibration, significantly improves the working comfort of the operator.
- Scientific and reasonable air duct design, the air conditioning system radiates heat independently to ensure sufficient air intake and improve the heat dissipation ability comprehensively, ensuring efficient operation of power system
- Electro-hydraulic control of the power shift gearbox, with independent intellectual property rights of the new electric control shift lever, significantly increase the operation comfort.
- Using advanced hydraulic damping control technology, optimized vibration parameters, reliability and work quality is greatly improved.
- 采用上柴国二涡轮增压低转速柴油机，实现最佳油耗工作区，使综合油耗下降10%；低转速柴油机降低噪声排放，并增强整机密封性，使整机噪声下降2分贝；优化传动系统匹配，实现最佳的压实作业速度，使作业效率提升8%。
- 驾驶室与机架采用组合刚度的减振装置，多维度降低驾驶室的振动，显著提升操作者的工作舒适性。
- 采用科学合理风道设计，空调系统独立散热以保证足够的进风量，综合提升散热能力，保证动力系统高效工作。
- 电液控制的动力换挡变速箱，配以自主知识产权的新型电控换挡手柄，显著增加操纵舒适性。
- 运用先进的液压阻尼控制技术，优化振动参数，工作更加平稳，作业质量大幅提升。

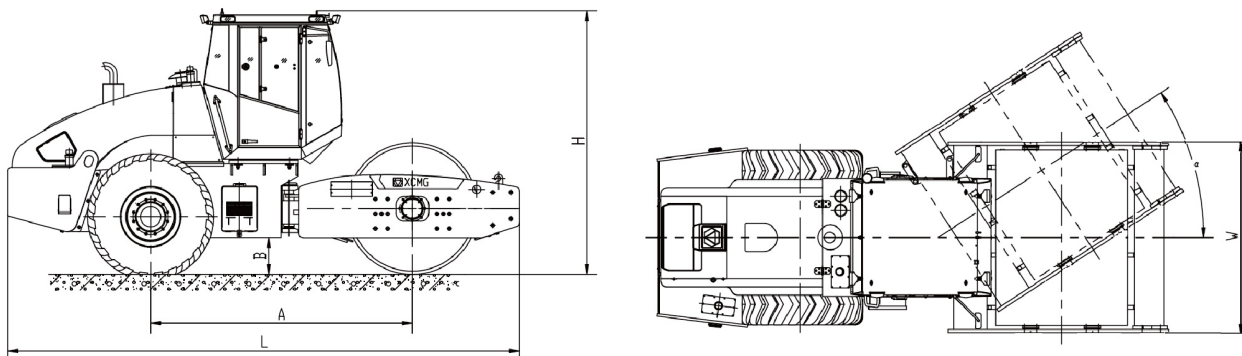
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## SINGLE DRUM VIBRATORY ROLLER

单钢轮振动压路机

### Main Dimensions

主要尺寸



尺寸 (mm)	A	B	H	L	W	α
XS203J	3180	440	3200	6320	2300	33°

### Main Specifications

主要技术参数

Item			项目		单位 Unit	XS203J
Service mass			工作质量		kg	20000
Distributed mass of driving wheel			驱动轮分配质量		kg	10000
Distributed mass of vibration wheel			振动轮分配质量		kg	10000
Static line load			静线载荷		N/cm	470
Vibration frequency			振动频率		Hz	28/33
Theoretical amplitude			理论振幅		mm	1.9/0.95
Exciting force			激振力		kN	353/245
Range of speed	Forward	I	速度范围	前进	I	2.95
		II			II	5.78
		III			III	9.4
Wheel base			轴距		mm	3230
Compaction width			压实宽度		mm	2130
Theoretical gradeability			理论爬坡能力		%	30
Minimum turn radius			最小转弯半径		mm	6500
Tire specification			轮胎规格			20.5-25-16PR
Diameter of vibration wheel			振动轮直径		mm	1600
Minimum ground clearance			最小离地间隙		mm	440
Engine	Model	发动机	型号			SC8D175.2G2B1
	Rated speed		额定转速	r/min	1800	
	Rated power		额定功率	kW	128	
Overall dimension (length × width × height)			外型尺寸(长 × 宽 × 高)		mm	6220 × 2300 × 3200







