XCMG 徐工集团

XS183J

SINGLE DRUM VIBRATORY ROLLER
单钢轮振动压路机

XS183J 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.

XS183J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 Shangchai China-III SC7H turbo electrically controlled diesel engine is adopted to increase and decrease the rotating speed, so as to achieve the best fuel consumption working area and reduce the comprehensive fuel consumption. The low-speed diesel engine reduces noise emission and enhances the leakproofness of the whole engine to reduce noise. 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.
- Using the Hachi gear box with synchro mesh unit to realize convenient operation.
- Optimized vibration parameters, reliability and work quality is greatly improved.
- The Chinese initiative throttle clutch linkage system is adopted to greatly improve the reliability of clutch system.
- 采用三阶段上柴SC7H涡轮增压低转速电控柴油机，实现最佳油耗工作区，使综合油耗下降；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；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。
- 采用带换挡同步器的变速箱，操纵轻便。
- 优化振动参数，工作更加平稳，作业质量大幅提升。
- 采用国内首创的油门离合联动系统，使离合系统的可靠性大幅提升。

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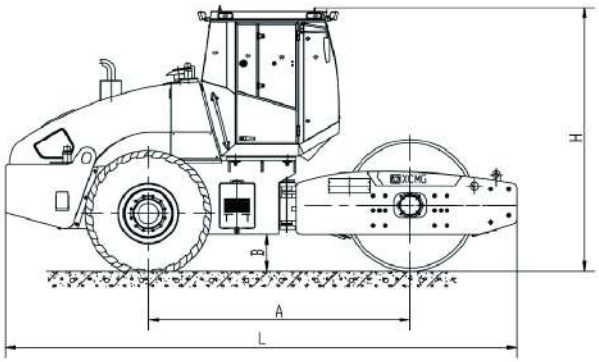
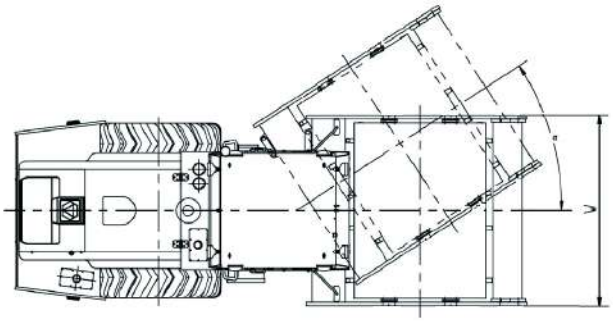
单钢轮振动压路机

Main Dimensions

主要尺寸





Dimension 尺寸(mm)	A	B	H	L	W	α
XS183J	3180	448	3200	6220	2300	33°

Main Specifications

主要技术参数

Item			项目			单位 Unit	XS183J
Service mass			工作质量			kg	18000
Distributed mass of driving wheel			驱动轮分配质量			kg	9000
Distributed mass of vibration wheel			振动轮分配质量			kg	9000
Static line load			静线载荷			N/cm	422
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	320/220
Range of speed	Forward	Ⅰ	速度范围	前进	Ⅰ	km/h	2.78
		Ⅱ			Ⅱ	km/h	5.43
		Ⅲ			Ⅲ	km/h	11.51
	Backward	Ⅰ		后退	Ⅰ	km/h	2.75
		Ⅱ			Ⅱ	km/h	5.45
Wheel base			轴距			mm	3180
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	1523
Minimum ground clearance			最小离地间隙			mm	440
Engine	Model		发动机	型号			SC7H160.2G3
	Rated speed			额定转速		r/min	1800
	Rated power			额定功率		kW	118
Overall dimension (length × width × height)			外型尺寸(长×宽×高)			mm	6220×2300×3200

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与 绿 色 共 和 生
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