



XS143J

SINGLE DRUM VIBRATORY ROLLER

单钢轮振动压路机

XS143J Single drum vibratory roller has a very high static line load and exciting force and is suitable to the compaction operation of pebbles, sandy soils, moraine soil, blasting rock and clayey soil, etc. and it is also suitable to the compaction of concrete and stabilized soil base materials in various large projects; Thus, it is a kind of important compaction equipment in the construction of large projects such as the expressway, railway, mine, port, etc.

XS143J单钢轮振动压路机具有很高的静线载荷和激振力，适用于卵石、砂性土壤、冰碛土、爆破岩石和粘性土壤等的压实作业，也适用于各种大型工程中对混凝土、稳定土基础材料的压实；是高速公路、铁路、矿山、港口等大型工程施工中重要的压实设备。

Performance Characteristics / 性能特点

- Use the H-series, water-cooling, four-cylinder four-stroke, direct injection turbo charged and air-air intercooling low-speed diesel engine manufactured by Shanghai Diesel Engine Co., Ltd. This kind of diesel engine has a large power reserve and has the function of energy saving and noise reduction. Engine fulfills the requirements of China stage II emission standards.
- Use the mechanical gear box with synchro mesh unit to realize convenient operation.
- Main clutch uses the heavy-duty special clutch which is the dry type normally combined friction clutch with a reliable performance and good maintainability. Clutch is directly installed on the engine flywheel, and the operation mechanism of main clutch is the air assisted mechanism which greatly reduces the operating force.
- Double frequency and double amplitude can meet the requirements of different working conditions; hydraulic vibration system consists of gear pump and motor to form an open system; its control mode is electronic control. Guarantee the demand of vibration parameter and reliability of vibration system.
- Optimized vibration drum structure and vibration parameters to guarantee smoother compaction surface and higher compaction efficiency.
- 采用上柴H系列、水冷、四缸四冲程、直喷式涡轮增压，空空中冷低转速柴油机，功率储备大，节能降噪。发动机排放满足中国II阶段标准。
- 采用带换挡同步器的机械变速箱，操纵轻便。
- 主离合器采用重型专用离合器，为干式常结合单片磨擦式，性能可靠，维修性好。离合器直接安装在发动机飞轮上，主离合器的操纵机构为气助力机构，极大减小了操纵力。
- 双频双振幅，满足不同工况要求；液压振动系统由齿轮泵、马达组成开式系统；控制形式采用电控。确保振动参数的需求及振动系统的可靠性。
- 优化的振动轮结构和振动参数，压实表面更平整，压实效率更高。

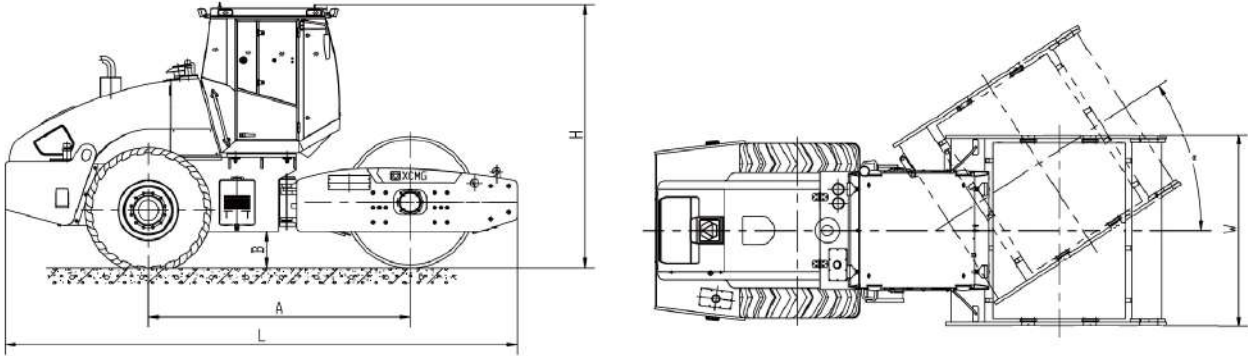
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主要尺寸

Main Dimensions (mm)



尺寸 (mm)	A	B	H	L	W	α
XS143J	3076	431	3200	6150	2300	33°

主要技术参数

Main Specifications

项目 Item	单位 Unit	XS143J	
工作质量	kg	14000	
驱动轮分配质量	kg	7300	
振动轮分配质量	kg	6700	
静线载荷	N/cm	315	
振动频率	Hz	28/33	
理论振幅	mm	1.9/0.95	
激振力	kN	274/190	
速度范围	前进 I	km/h	2.85
	II	km/h	5.08
	III	km/h	11.17
	后退 I	km/h	2.88
	II	km/h	5.02
轴距	mm	3076	
压实宽度	mm	2130	
理论爬坡能力	%	30	
最小转弯半径	mm	6800	
振动轮直径	mm	1523	
最小离地间隙	mm	431	
发动机	型号	SC4H140.1G2	
	额定转速	r/min	1800
	额定功率	kW	103
外型尺寸 (长×宽×高)	mm	6150×2300×3200	
振动系统压力	MPa	18	
转向系统压力	MPa	16	



CASE

