



XS163J

SINGLE DRUM VIBRATORY ROLLER

单钢轮振动压路机

XS163J 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.

XS163J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.
- Rear drum hydraulic drive, adopt closed hydraulic drive system composed of variable displacement piston pump and piston motor to ensure better drive performance and gradeability.
- 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。
- 后轮液压驱动，采用柱塞变量泵和柱塞定量马达组成的闭式液压系统，压路机具有良好的驱动性能。
- 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，为干式常结合单片摩擦式，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。

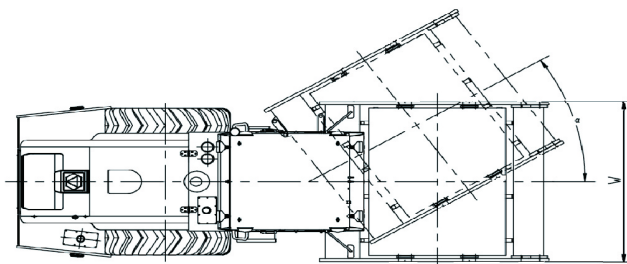
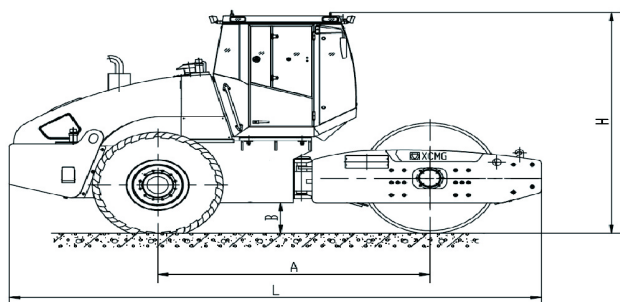
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Main Dimensions

主要尺寸



Dimension 尺寸(mm)	A	B	H	L	W	β
XS163J	3076	431	3200	6150	2300	33°

Main Specifications

主要技术参数

Item		项目			单位 Unit	XS163J	
Service mass		工作质量			kg	16000	
Distributed mass of driving wheel		驱动轮分配质量			kg	8000	
Distributed mass of vibration wheel		振动轮分配质量			kg	8000	
Static line load		静线载荷			N/cm	376	
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	290/200	
Range of speed	Forward	I	速度范围	前进	I	km/h	2.93
		II			II	km/h	5.76
		III			III	km/h	12.2
	Backward	I		后退	I	km/h	2.93
		II			II	km/h	5.76
Wheel base		轴距			mm	3076	
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	6800	
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	431	
Engine	Model	发动机	型号		SC4H140.1G2		
	Rated speed		额定转速		r/min	1800	
	Rated power		额定功率		kW	103	
Overall dimension (length × width × height)		外型尺寸(长×宽×高)			mm	6150×2300×3200	



