XD123S

TANDEM VIBRATORY ROLLER
双钢轮振动压路机

XD123S vibratory roller is designed intended for compacting asphalt pavement. It also can be used to compact layer of different materials and different thickness. With a wide application range it is very suitable for surface compaction work for public roads, parking lots, airports and other large engineering projects, as well as the compaction work on roadbed and sub-base material.

XD123S振动压路机专为压实沥青路面而设计的，能压实各种不同材料、不同厚度的铺层，特别适用于道路、停车场、机场等大型工程的路面压实作业，也可用于压实路基及次基层材料，适用范围广。

Performance Characteristics / 性能特点

- With increased vibration frequency the working speed increases from 4km/h to 6km/h, compaction efficiency increased by 46%, operating time is thus greatly reduced.
- Based on the hydraulic damping control technology, achieving soft control of starting acceleration, stopping deceleration, avoiding pushing and crushing material, improving the road evenness.
- The application of exclusive homogeneous compaction technology improves drastically the uniformity of amplitude and static line load; specially designed drum contacts ground with more uniform acting force, preventing under-compaction and over-compaction.
- Adaptive independent cooling technology is incorporated in the machine allowing automatic adjustment of fan speed depending on temperature; automatic idle speed function reduces the fuel consumption; accurate engine power match and peak alternation vibration technology; intensive hydraulic system design ensures constant system running in high efficient area.
- Sprinkler system has three-level filtration function, overall injection molding material designed nozzles prevent water system from rusting and clogging.
- Air duct design is adopted in the cab to improve the operating environment; The instrument case can be rotated to any side to observe the end face and surface of the drum; The man-machine interface style is more fashionable and distinct.

- 振动频率的提高使整机压实速度由原来的4km/h提高到6km/h，压实效率综合提高46%，大大缩短了作业时间。
- 基于液压阻尼控制技术，实现对起步加速过程以及停车减速过程进行柔和控制，避免压路机在起步于停车时对被压材料的推移与撕裂，避免产生拥包，提高路面的平整度。
- 国内独家采用均压技术，振幅的均匀性及静线载荷的均匀性得到明显提高；该设备经过特殊设计，使钢轮与地面接触各处作用力更加均匀，防止欠压和过压的发生。
- 整机采用自适应独立散热技术，散热风扇可根据温度自动调节风扇转速；自动怠速功能，当发动机不处于工作状态自动转到怠速状态，减少燃油消耗。发动机功率精确匹配，运用错峰起振技术；液压系统集约化设计，系统在高效区运行。
- 洒水系统采用三级过滤，喷头采用整体注塑材料设计，防止水路系统生锈、堵塞现象的发生。
- 驾驶室内采用风道式设计，改善操作环境；仪表箱可旋转至任何一侧观察钢轮端面及表面的情况；人机界面风格更加时尚鲜明。

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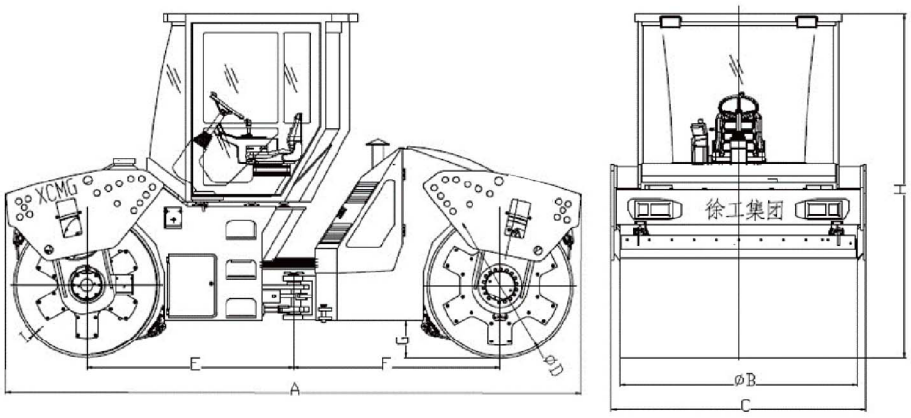
双钢轮振动压路机

Main Dimensions

主要尺寸



Dimension 尺寸(mm)	A	B	C	D	E	F	G	H	I
XD123S	5146	2130	2336	1300	1850	1850	314	3102	18

Main Specifications

主要技术参数

	Item	项目	单位 Unit	XD123S
Weight Parameters 质量参数	Operating weight	工作质量	kg	12300
	Distributed weight of front drum	前轮分配质量	kg	6150
	Distributed weight of rear drum	后轮分配质量	kg	6150
	Static linear load (front/rear)	静线载荷(前/后)	N/cm	283/283
Maneuverability 机动性能	Operating speed	工作速度	km/h	0～6,0–8,0～12
	Theoretical gradeability	理论爬坡能力	%	35
	Minimum turning radius(intern/extern)	最小转弯半径(内/外)	mm	4470/6600
	Minimum ground clearance	最小离地间隙	mm	314
	Wheel base	轴距	mm	3700
	Steering angle	转向角	°	±35
	Swing angle	摇摆角	°	±8
	Crab-walk quantity	蟹行量	mm	160
	Braking distance	制动距离	m	≤5.3
Compaction Performance 压实性能	Vibrational frequency	振动频率	Hz	67/50
	Nominal amplitude	名义振幅	mm	0.3/0.8
	Exciting force (High frequency/low frequency)	激振力(高频/低频)	kN	103/159
	Drum diameter	压轮直径	mm	1300
	Working width	压实宽度	mm	2130
Hydraulic system 液压系统	Refilling pressure of drive system	驱动系统补油压力	MPa	2.4
	Max. Pressure of drive system	驱动系统最高压力	MPa	40
	Max. Pressure of vibration system	振动系统最高压力	MPa	33
	Max. Pressure of steering system	转向系统最高压力	MPa	17.5
Engine 发动机	Model	型号		Cummins QSB4.5
	Mode	型式	直列四缸增压水冷型Inline four-cylinder pressurization water-cooled type	
	Rated power	额定功率	kW	113
	Rated speed	额定转速	r/min	2200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