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XCMG FOR YOUR SUCCESS



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LW1100KN

Wheel Loader



产品简介 / Model Characteristics

LW1100KN是徐工V系列大吨位轮式装载机主力机型，引领国内行业发展。立足客户需求，依托国际研发平台，全面提升产品可靠、高效、节能、环保、舒适、维修方便性。该产品重载设计、坚固可靠，关键零部件国际化配套，广泛适用于各大矿山、物流、水泥及钢铁企业的生产作业。

LW1100KN is one main model of XCMG V series high-tonnage wheel loader and is leading the domestic industry development. It's rooted in the customers' needs and based on the international R&D platform to thoroughly improve the product reliability, economy, energy-saving, environmental-friendliness, comfort, and maintenance convenience. With heavy-duty design and high firmness and reliability and globally supplied critical parts, this product is extensively applied in the productions of mine, logistics, cement, and steel enterprises.

高效 / High Efficiency

高效的传动系统 / High efficiency drive system

- ▼ 采用国际领先的全自动电控变速箱，档位前四后三，具有自动和手动模式切换以及KD档功能。
The world's leading full-automatic electronic control transmission is equipped, with four-forward and three-reverse gears, automatic/manual mode switchover function, and KD function.

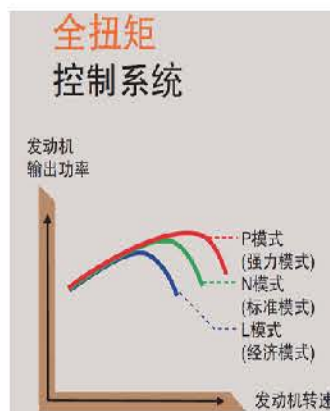
高效的液压系统 / High efficiency hydraulic system

- ▼ 整机采用负载敏感变量技术，按作业需要提供压力和流量，燃油消耗降低15%。
The load-sensing variable technology is adopted to supply pressure and flow depending on the working needs, which reduces the fuel consumption by 15%.
- ▼ 电液比例控制，操纵轻便，工作效率大幅提升。
The electro-hydraulic proportional control realizes handy operations and greatly improves the working efficiency.



高效的工作装置 / High-efficiency working device

- ▼ 高效连杆系统，配置具有角度记忆功能的限位传感机构，限位更加准确，工作更加高效。
The high-efficiency linkage system is fitted with limit sensing mechanism with angle memory function, featuring higher limiting accuracy and working efficiency.



可靠 / Reliability

结构件 / Structural parts

- ▼ 重载超强设计，消除局部薄弱，历经数百万次疲劳破坏性测试，确保满足各类恶劣工况。
The super-strong heavy-duty design eliminates partial weaknesses and meets the needs under diversified severe operating conditions with fatigue destruction test of millions of cycles.
- ▼ 机器人焊接，焊缝质量稳定，熔深大。
The robot welding process ensures stable weld quality and high fusion depth.

发动机 / Engine

- ▼ 三级空气滤清器，针对工程机械行业恶劣工作环境专门设计；
The three-stage air filter is designed especially for severe working environment of construction machinery industry.
- ▼ 多级燃油滤清器，燃油适应性好，保障发动机系统清洁度。
The multi-stage fuel filter ensures good fuel adaptability and guarantees cleanliness of engine system.

传动件 / Drive parts

- ▼ 单涡轮三元件变矩器，手自一体全自动电控变速箱，结构简单，可靠性高；
The single-turbine three-element torque converter and the full-automatic electronic control AMT transmission feature simple structure and high reliability.
- ▼ 全自动电控变速箱，具有空挡启动保护、档位锁止、动力切断、故障自诊断功能。
The full-automatic electronic control transmission incorporates neutral-gear start protection, gear locking, power shutoff, and malfunction self-diagnosis functions.

驱动桥 / Drive axle

- ▼ 全液压湿式制动驱动桥，选配差速锁，提升了工况适应性，大大延长驱动桥的使用寿命。
The full-hydraulic wet drive axle and the optional differential lock improve the working condition adaptability and remarkably prolong the life of drive axle.
- ▼ 驱动桥配备强制散热系统，可将湿式制动摩擦片强制冷却，有效延长桥的使用寿命。
The drive axle is equipped with forced heat dissipation system to forcibly cool down the friction plates of wet-type brake and effectively prolong the service life of axle.



舒适 / Comfortable

操作舒适 / Comfortable operations

- ▼ 电液比例操控，指尖操作，轻便舒适。
The electro-hydraulic proportional control with fingertip operations features high handiness and comfort.
- ▼ 高性能气囊减震复合座椅，配合多方位可调转向柱，操控箱随动，可以满足不同驾驶员的使用要求。
The high-performance air-cushioned composite seat works with multi-direction adjustable steering wheel and follow-up control box to meet the operation needs of different drivers.
- ▼ 各类操控元件人机交互性强，长期工作不疲劳。
The strong human-machine interactivity for the pedals and controls mitigates the fatigue during long-time operations.
- ▼ 双踏板制动，智能动力切断，操作舒适，稳定性高。
The double-pedal brake features intelligent power cutoff, comfortable operations, and high stability.
- ▼ 工作装置角度记忆功能，减少碰撞冲击，提高操作舒适性。
The angle memory function for the working device reduces the collision impact and improves the operation comfort.



驾驶环境舒适 / Comfortable driving environment

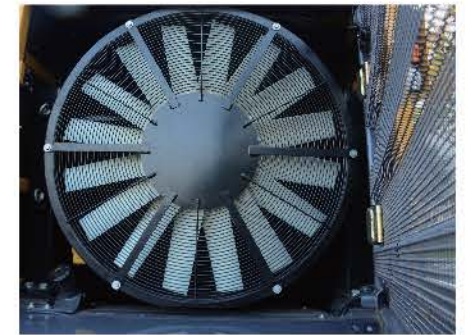
- ▼ 整体式全密封骨架结构驾驶室，降噪、防尘、隔热，营造健康驾驶环境。
Well insulated against noise, dust, and heat, the full-enclosed integral frame-work cab creates a healthy driving environment.
- ▼ 全景玻璃，超大球面后视镜，视野开阔，作业轻松、安全。
The panoramic glasses and super-large spherical rearview mirrors ensure a broad vision and easy and safe operations.
- ▼ 驾驶室可利用空间增大20%，座椅可以大角度后仰，更舒适。
The utilizable space of the cab is enlarged by 20% and the seats are backward inclinable in large angle to bring about more comfort.
- ▼ 带有过滤功能的微增压空调系统，为操作者提供舒适的工作环境。
The slightly pressurized A/C system with filtration function provides the operator with a comfortable working environment.
- ▼ 仪表美观大方，轿车级驾驶视觉享受。
The graceful and elegant instruments bring about a car-style visual enjoyment.
- ▼ 整机通道系统，配备应急逃生出口，满足CE标准。
The passageway system of the machine and the emergency exit equipped meet the CE standard.
- ▼ 配置倒车影像系统，倒车更安全。
The reversing camera system is equipped to ensure higher reversing safety.



经济性 / Economy

使用经济性 / Operation economy

- ▼ 低速高扭矩T3发动机与大容量变矩器完美匹配，保证效率最大化，大大降低油耗。
The low-speed high-torque T3 engine works together with high capacity torque converter to ensure maximum efficiency and greatly reduce the fuel consumption.
- ▼ 泵的输出流量可根据工作需要调节，避免高压溢流损失，降低油耗。
The output flow of the pump is adjustable depending on the working needs to avoid high pressure overflow loss and reduce the fuel consumption.
- ▼ 轻量化设计工作装置，每次举升可减少不必要的能量消耗，提高燃油经济性。
The working device with lightweight design can reduce the unnecessary energy consumption and improve the fuel economy during each lifting cycle.
- ▼ 智能独立散热系统：通过检测发动机水温、液压油油温、变矩器油温、空空中冷温度等，实现风扇转速智能控制，减小燃油消耗。
Intelligent independent heat dissipation system: By measuring the engine coolant temperature, hydraulic oil temperature, torque converter oil temperature, and air-air intercooler temperature, it realizes the intelligent fan speed control to reduce the fuel consumption.
- ▼ 液压油更换周期延长至2000小时，减短停机时间，降低维护成本。
Hydraulic oil change interval is extended up to 2000 hrs to reduce shutdown time and maintenance cost.



工况适应性 / Working condition adaptability

- ▼ 加强型耐磨铲斗设计，V型主刀板，有效减小插入阻力，提高作业效率。

The enhanced wear-resistance bucket design and V-shaped main blades effectively reduce the piercing resistance and improve the operation efficiency.



- ▼ 可选配夹钳机具
- The optional clamp attachment is available.

维护方便性 / Convenient maintenances

- ▼ GPS远程故障诊断，配合一机一册，降低用户维修成本，帮助用户进行设备管理。

The GPS remote malfunction diagnosis works with exclusive maintenance manual to reduce the user's maintenance cost and help customer for equipment management.

- ▼ 发动机护罩采用大侧门设计，开启角度大，方便日常维护。

The engine hood adopts upturning large door design in large opening angle to ease the daily maintenances.

- ▼ 发动机机油滤、柴油滤、双变油滤、空滤等可进行“一站式”维护保养。

The “one-stop” maintenance can be fulfilled for the engine oil filter, diesel filter, transmission and torque converter filters, and air filter.

- ▼ 压力集中检测，方便检修、保养。

The centralized pressure measurement eases the services and maintenances.

- ▼ 自清理功能的温控风扇可实现风扇反转，保养更便捷。

The temperature controlled fan with self-cleaning function is capable of reverse rotation to make the maintenance easier.

- ▼ 中央配电盒安装在驾驶室内，防尘、防潮，易于检修。

The central distribution box is installed within the cab, featuring dust and moisture proof and easy services.

- ▼ 配置自动润滑系统，可定期对活塞销和轴套进行润滑，减少日常维护时间，和由于润滑不够充分导致的意外停工维护时间。

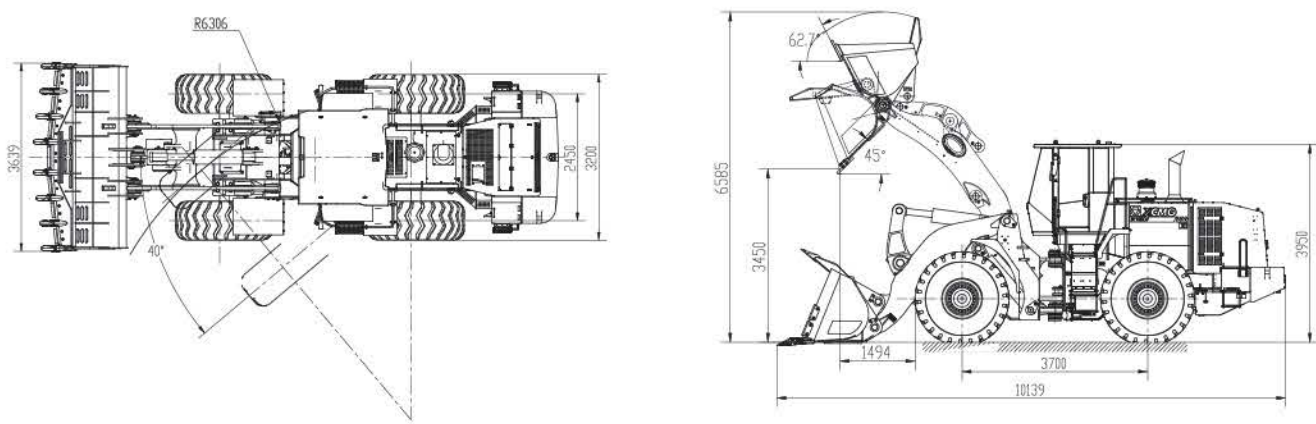
The automatic lubrication system is equipped to periodically lubricate the piston pins and bushings, reduce the daily maintenance time, and prevent the unexpected shutdown maintenance time due to insufficient lubrication.

- ▼ 采用全封闭湿式制动系统，磨损少，免维护。

The full-enclosed wet brake system equipped features low wear and maintenance-free.



外形尺寸 / Outline Dimensions



主要参数 / MAIN SPECIFICATIONS

项目	Description	参数 Specification	单位 Unit
额定载荷	Rated operating load	11000	kg
斗容量	Bucket capacity	5.5-6.1	m³
整机工作质量	Machine weight	35000	kg
卸载高度（地面至主刀板）	Discharge height	3450	mm
卸载距离（前轮至主刀板）	Discharge distance	1494	mm
轴距	Wheel base	3700	mm
轮距	Tread	2450	mm
最大掘起力	Max.breakout force	290	kN
动臂提升时间	Hydraulic cycle time-raise	6.5	s
三项和时间	Total hydraulic cycle time	12	s
最小转弯半径(轮胎中心)	Min. turning radius over tyres	6306	mm
铰接角度	Articulation angle	40	°
爬坡能力	Gradeability	25	°
轮胎规格	Tyre size	29.5R25	
整机外形尺寸（长×宽×高）	Overall machine dimension L×W×H	10139×3639×3950	mm
发动机型号	Model	QSX15	
额定功率/转速	Rated Power/Speed	291/2000	kW/rpm
行驶速度	一档（前进/后退）	I -gear(F/R)	6.2/6.2
	二档（前进/后退）	II -gear(F/R)	11.5/11.5
	三档（前进/后退）	III -gear(F/R)	17.5/24.8
	四档（前进/后退）	IV -gear(F/R)	35.7/-

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