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XCMG FOR YOUR SUCCESS

LW1100KN 轮式装载机

Wheel Loader



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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.

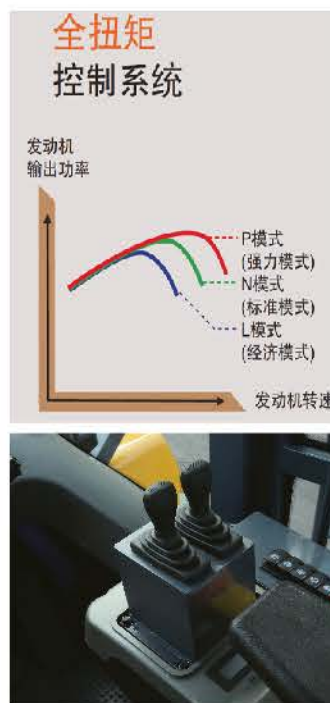
高效的液压系统 / High efficiency hydraulic system

- ▼ 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 showdown 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.

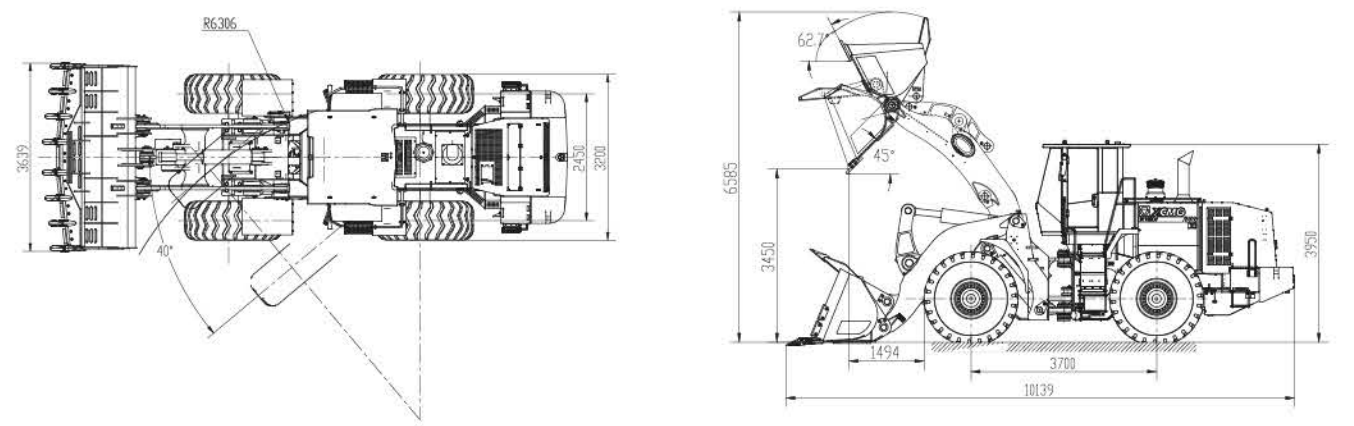


维护方便性 / Convenient maintenances

- 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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