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LW600KN

Wheel Loader



Model Characteristics

XCMG LW600KN wheel loader is rooted in the customers' needs and based on the international R&D platform to thoroughly improve the product reliability, economy, comfort, efficiency, maintenance convenience, and adaptability and is a preferential machinery product for the production organization in the fields of ports, mines, engineering constructions, and logistics.

- Engine specification: Maximum net power 178KW
- China-III emission compliance
- Bucket capacity: 3.0~4.5m3
- Gross machine weight: 20,000kg-21,200kg



Model Characteristics



- ▼ The super-strong heavy-duty structural parts, enhanced drive system, and globally supplied critical parts can carry the torsion and impact loads under diversified working conditions.
- ▼ The comprehensive application of automatic power distribution (APD) energy-saving system and the choice of multiple power modes save averagely the fuel by 15%.
- ▼ The globalized full-enclosed and slightly pressurized cab with heating and air conditioning system features a broad vision and enlarges the interior space by 20%. The multi-direction adjustable control box and steering column and the scientific ergonomic design bring about a first-class driving/riding experience.
- ▼ The high-efficiency electronic control countershaft transmission matches perfectly with the engine. The optimally designed working device equipped features automatic leveling, pilot control, and high operation efficiency.
- ▼ With wide scope design, this machine is applicable for diversified working environments, including high altitude, heavy dust, high temperature, and low temperature. The diversified attachments can be equipped to meet the needs of diversified working conditions.
- ▼ The centralized pressure measurement, “one-stop” maintenance, easily cleanable single-row radiator with large fin spacing, and extended replacement interval of hydraulic oil realize short shutdown time and low maintenance cost.

Engine

Optional Weichai engine

- ▼ The three-stage air filter is designed especially for severe working environment of construction machinery industry.
- ▼ The multi-stage fuel filter ensures good fuel adaptability and guarantees cleanliness of engine system.



Optional ZF electronic control countershaft transmission

Heavy-duty electronic control countershaft transmission

- ▼ The material and heat treatment for pump shaft connecting spline are improved and the forced lubrication is applied to prolong the life by 20%.

Enhanced drive axle

- ▼ With optimized materials and processes, the main reducer and wheel reducer passed the industry's leading reliability life test of >900,000 cycles.
- ▼ The axle housing is design optimized and the cross section of the housing is enlarged to increase the carrying capacity and bending resistance by 10%.
- ▼ The optional maintenance-free wet brake axle improves the braking reliability.



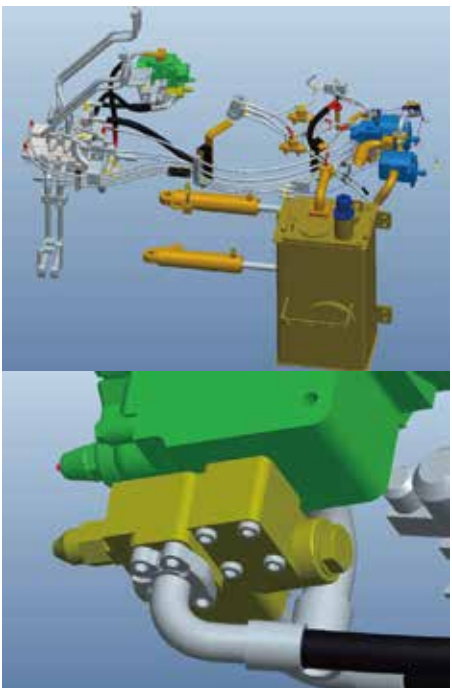
Structural parts

- ▼ 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.
- ▼ The robot welding process ensures stable weld quality and high fusion depth.



Hydraulic system

- ▼ The double-pump confluence/distribution technology is applied so that the steering pump preferentially supplies oil to the steering system. When no steering operation is made, the oil flow of the steering pump completely flows into the working hydraulic system to reduce the displacement of working pump, improve the reliability of hydraulic units, and at the same time reduce the generated heat of hydraulic system and realize energy-conservation.
- ▼ The automatic unloading function is provided to reduce the energy loss of high pressure overflow of the hydraulic system, increase the traction force by 15% under combination operation, and remarkably improve the working efficiency.



Working device

- ▼ The high-efficiency linkage system features fast motions, high breakout force, and powerful lifting capacity.
- ▼ With optimal shape design, the bucket features low insertion resistance and high fullness rate.
- ▼ The guide plates are additionally installed for the standard bucket and the rock bucket to prevent the splashing of material.



Comfort



Comfortable operations

- ▼ The full-hydraulic pilot controlled working device and steering system features handy control and reduces the working strength of the driver.
- ▼ The steering gear, seat, and control box are freely adjustable depending on the operator's needs.
- ▼ The strong human-machine interactivity for the pedals and controls mitigates the fatigue during long-time operations.
- ▼ The combination (flexible mode first and rigid mode second) of hydraulic flexible mode and mechanical rigid mode is adopted for the steering limits, in order to relieve the impact and ensure driving/riding comfort.



Comfortable driving environment

- ▼ Well insulated against noise, dust, and heat, the full-enclosed integral framework cab creates a healthy driving environment.
- ▼ The panoramic glasses and super-large spherical rearview mirrors ensure a broad vision and easy and safe operations.
- ▼ The utilizable space of the cab is enlarged by 20% and the seats are backward inclinable in large angle to bring about more comfort.
- ▼ The slightly pressurized A/C system with filtration function provides the operator with a comfortable working environment.
- ▼ The graceful and elegant instruments bring about a car-style visual enjoyment.
- ▼ Reversing camera: The optional reversing camera system realizes higher reversing safety.





Economy

Operation economy

- ▼ The high energy-conservation and high-efficiency hydraulic system is applied to realize higher fuel utilization efficiency and more powerful working capacity.
- ▼ The working device is design optimized to reduce the unnecessary consumption and improve the power utilization rate.
- ▼ The replacement interval is extended from 250h to 500h for the engine oil and is extended to 2,000h for the hydraulic oil to shorten the shut-down time and reduce the maintenance cost. In addition, the replacement volume of hydraulic oil is reduced by 20% compared with the like models.



Extensive adaptability

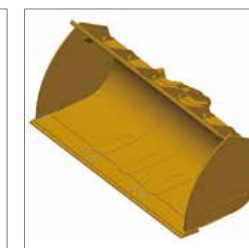
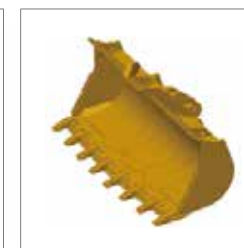
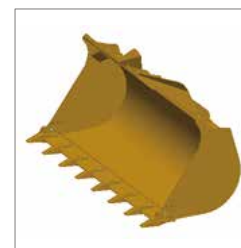


Environment adaptability

- ▼ Normal operation under environment temperature of -35°C~+45°C.
- ▼ No power drop under altitude of up to 3,000m.
- ▼ A high-flow ventilator is installed for various systems to meet the operation needs under heavily dusty environment.

Working condition adaptability

- ▼ The diversified buckets can be equipped based on the handling material.
- ▼ The diversified attachments can be equipped based on the handling material.



Convenient maintenances

- ▼ The GPS remote malfunction diagnosis works with exclusive maintenance manual to reduce the user's maintenance cost and help customer for equipment management.
- ▼ The engine hood adopts upturning large door design in large opening angle to ease the daily maintenances.
- ▼ The “one-stop” maintenance can be fulfilled for the engine oil filter, diesel filter, transmission and torque converter filters, and air filter.
- ▼ The centralized pressure measurement and the centralized lubricating for the hinges ease the services and maintenances.
- ▼ The externally arranged booster cylinder, air reservoir, and A/C achieve reasonable structural arrangement and easy maintenances.
- ▼ The protective net for the external A/C devices guards the radiator fins against blockage by foreign materials and keeps the fins easily clean-able.



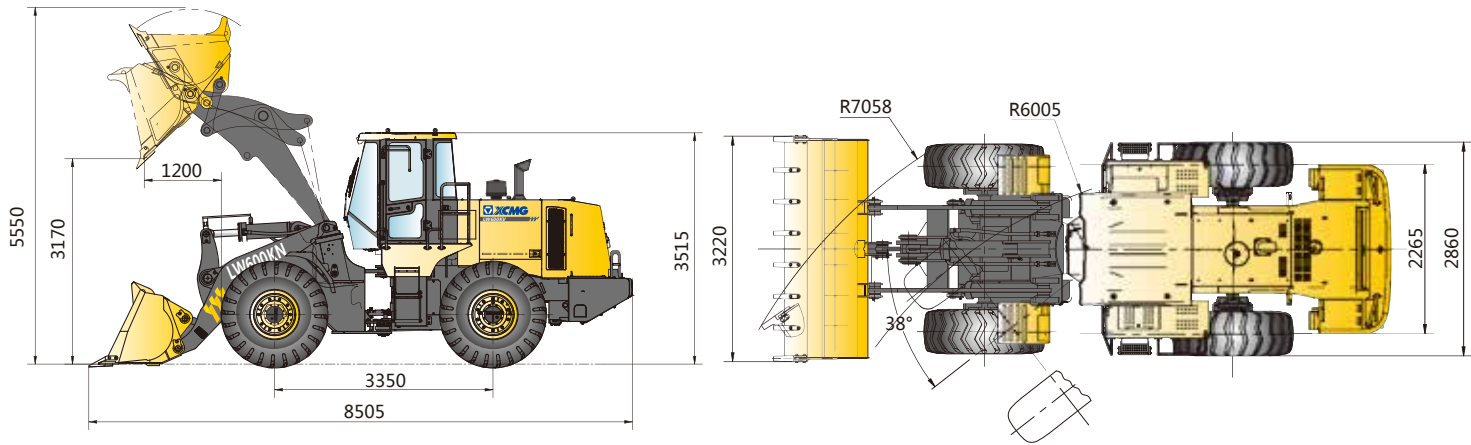
Customer Support

- ▼ After-market support: We have professional technical personnel and dealers to help users select the best model suitable for the required working conditions. In addition, we boast powerful remanufacturing capability to have users save lifecycle operation cost.



- ▼ Diversified choices: The optional automatic weighing system, automatic centralized lubrication system, back vision system, limited slip differential system, oil bath system, electro-hydraulic proportional control system, and full-hydraulic wet brake system are at your choice.

Outline Dimensions



MAIN SPECIFICATIONS

Description		Specification	Unit
Rated operating load		6000	kg
Bucket capacity		3.0 ~ 4.5	m³
Machine weight		20000±300	kg
Dump clearance at maximum lift		3170 ~ 3750	mm
Reach at maximum lift		1200 ~ 1360	mm
Wheel base		3350	mm
Tread		2265	mm
Max.breakout force		205	kN
Max.horse power		174	kN
Hydraulic cycle time-raise		≤5.9	s
Total hydraulic cycle time		≤10.9	s
Min. turning radius over tyres		6005	mm
Articulation angle		38	°
Gradeability		28	°
Tyre size		23.5-25	
Overall machine dimension L×W×H		8505×3220×3515	mm
Model		SC11CB240.1G2B	
Rated Power		178	kW
Travel speed	I -gear(F/R)	6/6	km/h
	II -gear(F/R)	11/11	km/h
	III -gear(F/R)	22/22	km/h
	IV -gear(F/R)	34/34	km/h

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