



LW160KV

WHEEL LOADER



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XCMG Construction Machinery Co., Ltd.

HEAVY DUTY · HIGH-ENDED SUPREME QUALITY INDUSTRY BENCHMARK



MODEL CHARACTERISTICS

- XCMG's unique heavy-duty drive and structural parts boast high carrying capacity.
- The all-new optimized working device challenges the efficiency limit of small-sized loaders.
- The streamline exterior, large-view glasses, and arc ballast feature beautiful modeling.
- The human-oriented design guarantees safety, reduces the fatigue, and builds an excellent operating environment for you.
- The single-joystick control and the optional heater and audio system realize high operation comfort.

PERFORMANCE

- The extended wheelbase (2,250mm) design applied adapts to diversified super-heavy working conditions, with the stability leading the industry.
- With powerful digging force (The breakout force of LW160KV is $\geq 44\text{kN}$) and strong breaking force, it handles diversified materials with ease.
- It boasts the industry's leading traveling speed (20km/h), featuring high rapidness and efficiency.
- The >3m dumping height meets the operation needs in diversified applications.

OUTSTANDING POWER AND DRIVE SYSTEM

SURGING POWER

- The engineering version leading Yunnei engine for small-sized loaders features China-III emission compliance.
- With strong power and high torque reserve factor, this turbocharged engine meets the instant overload demand during operations and sufficiently provides the power required for heavy-load operations.

XCMG special transmission and torque converter

- The special high capacity torque converter ensures the maximum utilization of engine power.
- The enhanced design effectively improves the overload capacity of the transmission.
- The countershaft transmission features high reliability and efficiency and convenient maintenances.



Firm and reliable super-strong heavy-duty structural parts

- The heavy-duty design, thick plate structure, and robot welding process ensure high torsion resistance coefficient and strong overload capacity.
- The finite element analysis technology is applied to reduce the stress concentration and eliminate the partial weaknesses so that the frame is resistant against impact and overload and handles with ease all kinds of super-heavy-load conditions.
- The approximate centering design for main hinge joints reduces the turning radius and lowers the tire wear and energy consumption.



Enhanced heavy-duty drive axle of outstanding performances

- The solid and firm load carrying portions, integral ring gears, and large modulus gears boast excellent overload resistance to meet the needs of diversified high strength and high load operations.



International quality hydraulic and electric units

- All hydraulic parts adopt domestic leading brand products.
- The harnesses are made of high quality material and the process layout is optimized to ensure reliable electric circuit system.
- The international quality hydraulic hoses applied feature high heat and pressure resistance and long service life.
- The hydraulic pipelines adopt double sealing means (DIN standard 24° taper thread + O-ring) to achieve better sealing performance and effectively solve the leakage problem.



SPACIOUS CABIN

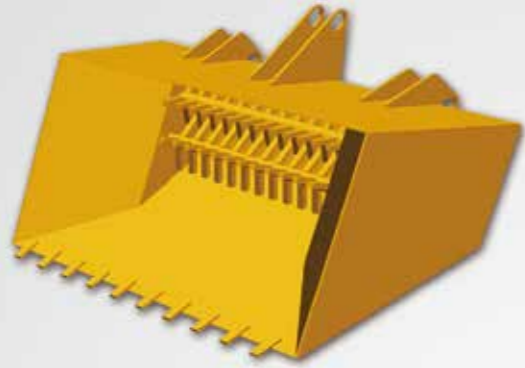
- The super-large luxury cab features large space and good visibility.
- The dashboard meets the needs of individualized operation habits.
- The one-handed operation mode improves the operation comfort.
- With sound insulation and noise reduction measures, the cab features low internal noise and high safety and comfort.

EFFORTLESS MAINTENANCE AND SERVICE

- The engine hood with side-turning gate on two sides eases the services and maintenances for engine and water tank.
- The points for checking of oil level and for adding of oil and grease are arranged at the easily accessible locations and the air filter element is easy to check and replace.
- The system pressure checking ports are concentrated to save the maintenance time and labor.
- The central fuse case centrally indicates the working status of electric system and eases the maintenances.



VARIOUS ATTACHED TOOLS MEETING REQUIREMENTS OF DIFFERENT WORKING CONDITIONS



TURNING BUCKET

It's functioned to stir and mix diversified bulk materials and discharge the uniformly mixed material from the bottom of bucket, featuring simple and convenient operations.

Bucket width: 1900mm

Bucket capacity: 0.9m³

STANDARD BUCKET



WHEEL LOADER MAIN DESIGN PARAMETERS(STANDARD BUCKET)

Main Parameters	Parameters	Unit
Rated operating load	1400	kg
Dumping height	3000	mm
Dumping distance	950	mm
Bucket capacity	0.75	m ³
Machine weight	5000	kg
Wheel base	2250	mm
Tread	1500	mm
Hinge-axis height at lifting limit	3600	mm
Max. breakout force	44	kN
Boom lifting time	5	s
Total cycle time	9.5	s
Min. turning radius over tyres	4360	mm
Articulation angle	35	°
Gradeability	25	°
Tyre size	16/70-16	-
Overall machine dimension L × W × H	5810*2060*2815	mm
Engine model No.	YN4C075-30CR	-
Rated Power/Speed	55/2400	kW/rpm
Travel Speed	I-gear(F/R)	8 km/h
	II-gear(F/R)	20 km/h