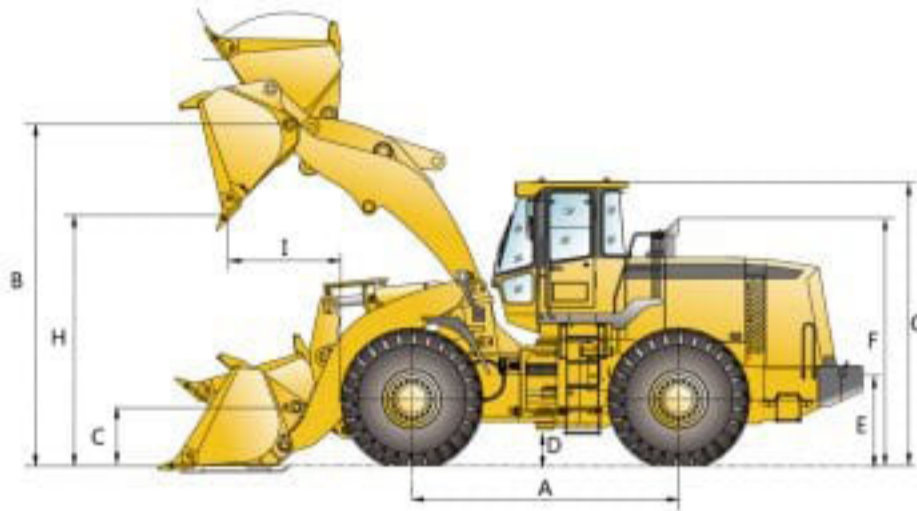


Outline Dimensions



Wheel tread	2360 mm
Tire outside width	3070 mm
A Wheelbase	3450 mm
B Hinge height at maximum lifting height	4395 mm
C Hinge height during loading	270 mm
D Ground clearance	520 mm
E Traction pin height	1350 mm
F Overall height (to exhaust pipe)	3472 mm
G Overall height (to cab)	3600 mm
H Dumping height (Main cutting blade)	3200 mm
I Dumping range (main cutting plate)	1268 mm

Main Specifications

Description	Specifications	Unit
Rated bucket capacity	4.2	m ³
Rated operating load	7000	kg
Operating weight	23500	kg
Max. breakout force	200	kN
Hydraulic cycle time-raise	6	s
Total hydraulic cycle time	10.8	s
Tire model	26.5R25	
Dimension L×W×H	8900×3200×3600	mm

Structure specification and appearance colors are subject to change without notice. In case there is any difference between the description of the machine and the substantial machine, the substantial machine should govern.

LW700KV

WHEEL LOADER



Description Specification

Rated bucket capacity	4.2m ³
Rated loading capacity	7000kg
Gross weight	23500kg
Max. breakout force	200kN





Providing construction equipment for the world



Coal loading of LW700KV loaders



Construction scene of LW500K loaders



Ore digging of XCMG LW600K loaders



Construction scene of XCMG LW800K loaders



Transport of phosphate ore by XCMG LW900K loaders



Port construction of XCMG LW500K-LNG loaders



Construction scene of XCMG LW800K-LNG loaders



Construction scene of XCMG LW1200K loader, the China's highest tonnage loader

High productivity and low fuel consumption

High performance Cummins QSM11 (Tier 3) engine

The imported Cummins QSM11 electronic injection, air-air inter-cooled, turbocharged engine with electronic start and stop device and high torque reserve coefficient enables the whole machine to have powerful traction force and rapid hydraulic response.

Power: 216kW(290hp)/2,100rpm

Low emission

Compliance with environment protection requirements and output of clean emission

Compliance with European/American TIER-3 emission regulation

Low fuel consumption

The low noise and high torque engine and the high capacity torque converter guarantee the maximum efficiency during low speed traveling to remarkably reduce the fuel consumption.



ZF transmission with KD function

The transmission and torque converter system adopts the imported ZF-4WG electrohydraulic control transmission. With four forward and three reverse gears, this transmission incorporates the electronic control gearshift and KD functions to simplify the operations and improve the working efficiency and economy.



High-efficiency hydraulic system

The hydraulic system adopts pilot control, steering flow amplifying, and working and steering confluence technology to realize low hydraulic power consumption, low energy consumption, and improved efficiency of the hydraulic system.

The unloading system of hydraulic system reduces the hydraulic oil overflow loss, increases the traction force, and improves the working efficiency during the working of the machine.

It features short total cycle time and high working efficiency, with the lifting time less than 6s.



Flow amplifying valve



Double-pump confluence

Enlarged bucket capacity

Bucket capacity: 4.2/5.5 m³

Rated bucket capacity: 4.2m³

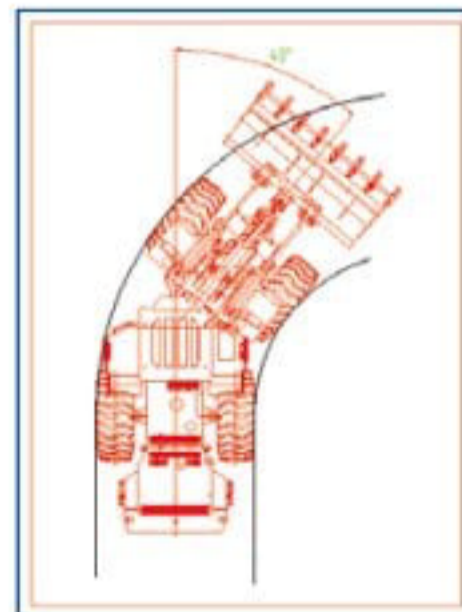
Dumping height (Main cutting blade): 3,200mm

Dumping range (Main cutting blade): 1,268mm

Extended wheelbase/40° articulated angle

The widest wheel tread and the extended wheel base guarantee the excellent stability of the machine in both longitudinal and lateral directions. The 40° articulated angle of the loader enables the operator to work effectively even under the most difficult working site.

Wheel tread	2360mm
Wheelbase	3450mm
Minimum turning radius (based on outer wheel center)	5950mm



High reliability

The critical parts adopt the international renowned brand products, including originally imported Cummins engine, ZF drive axle, MICO brake parts, and are assembled under stringent quality management to guarantee the reliability of the machine.



Wet multi-disc brake and full-hydraulic brake system

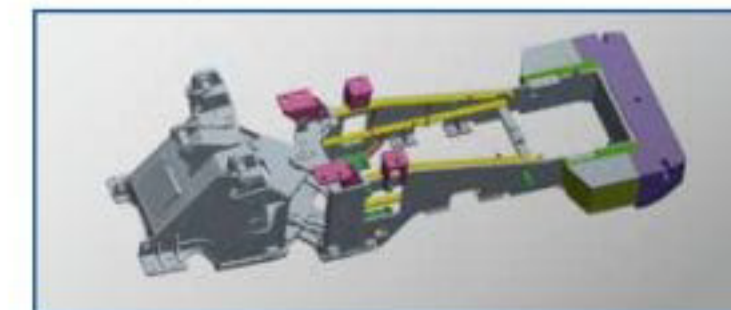
It means low maintenance cost and high reliability. The wet disc brake is of full-enclosed type to effectively prevent the ingress of dirt and reduce the wear and maintenances. The maintenance works are further reduced as it's unnecessary to adjust the brake due to wear. No adjustment is required even for a new parking brake. The wet multi-disc brake features high reliability and long life.

The brake system adopts two independent hydraulic circuits to further improve the reliability. If one circuit is malfunctioned, the other circuit can still ensure the normal functioning of brake. A full-hydraulic brake means no ingress of air and no condensate water in the system to eliminate the pollution, rust, and freezing.



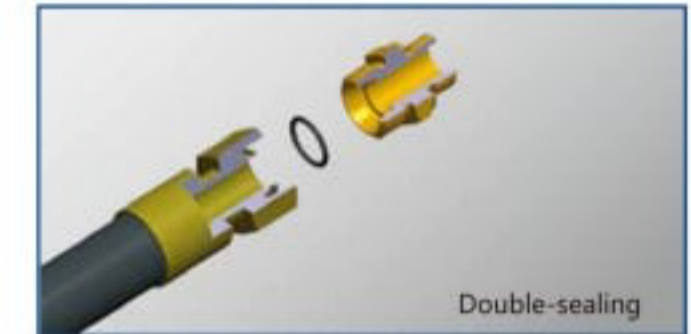
Firm frame and connecting rod mechanism

The front and rear frames and the connecting rod mechanism are further reinforced to carry the increased stress arising from the use of a larger bucket. The design of frame and connecting rod mechanism meets the actual loading needs, as their strengths are proved by the computer simulation tests.



Plane O-ring

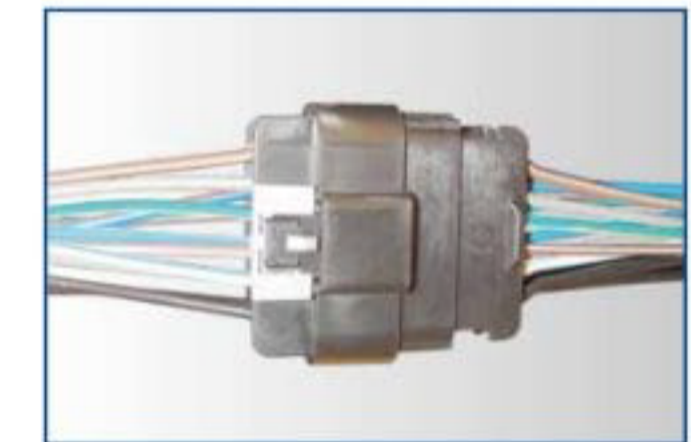
The hydraulic pipelines adopt double sealing means (DIN standard 24° taper thread + O-ring) to solve the leakage problem.



Double-sealing

Circuit connections with waterproof connectors

The main harnesses are connected by full-sealed connectors to improve the reliability and remarkably increase the waterproof and dustproof capacity.



The double-stage intake filter system for the engine protects the engine against the harms of dusts and the earlier damages while the machine is working under dusty conditions.



Convenient maintenances/operator's environment

Convenient maintenances for wearing parts

The engine filter element and the transmission filter element are easily maintainable to save the maintenance time.



Central pressure measurement



Easy system checking and maintenances.

Central lubrication system

The central lubrication system overcomes the short-coming of manual adding of lubricating grease and automatically pumps a fixed volume of lubricating grease at fixed intervals to all lubricating points to ensure the normal and durable functioning of all friction pairs and remarkably save the maintenance time.

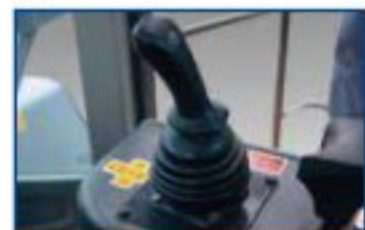
Operator's environment

Electrohydraulic shift automatic transmission

The ZF electrohydraulic shift transmission incorporates the neutral start protection function, shift gear locking function, and KD function, featuring simple operations. The single-joystick pilot control system reduces the operating force and ensures excellent comfort.

The double-limit (primary hydraulic limit and secondary mechanical limit) steering system prevents the mechanical impact on front and rear frames during the steering to prolong the life of the machine and mitigate the driver's fatigue strength.

The single-joystick pilot control system incorporates the KD function to reduce the operating force, simplify the operations, and ensure excellent comfort.



Single-joystick control



Hydraulic limit

XCMG's new stamped cab

Featuring broad visual field and high sealing and vibration reduction performance, the cab is fitted with heating and air conditioning system to build a comfortable and safe operating environment. The reversing monitoring system reduces the backward blind zones to improve the operation safety.



The XCMG's new stamped sealed cab is applied to improve the sealing performance and provide you with a quiet, low-vibration, dustproof, and comfortable operating environment. The outside noise is also the lowest.

Operator's parotic noise: 80dB (A)



Heating and air conditioning system

Radio/cassette player

Adjustable steering column

The steering wheel column can be tilted to provide the operator with a more comfortable working environment.

Technical Specification

Engine

Model	Cummins QSM11-C290(Tier3)
Type	4-stroke water-cooled
Intake mode	Turbocharged and air inter-cooled
Number of cylinders	6
Cylinder bore	
Piston displacement	10.8L
Speed regulator	Electronic full-range speed regulation
Power	216kW(290HP)
Rated speed	2100rpm
Fuel system	Direct injection
Maximum torque output	1478Nm@1400rpm
Lubrication system	Gear pump forced lubrication
Filter	Full-flow type
Air filter	Dry type (Double filter element, with dust discharge and dust indicator)

Transmission

Hydraulic torque converter	
Type	Single-stage, single-phase, and three-element

Transmission	
Type	Countershaft power shift
Traveling speed: km/h	
Calculated on basis of 26.5-25 tires	

	Gear I	Gear II	Gear III	Gear IV
Forward gear	6.8	12.7	27.6	38
Reverse gear	6.8	12.7	27.6	-

Axles and main drive

Drive system	Four-wheel drive
Front wheels	Fixed, full-floating type
Rear wheels	Central pin supported, full-floating type, and 26° swing
Reduction gear	Spiral bevel gears
Differential gear	Common gears
Final drive	Planetary gear, single-stage reduction

Brake

Service brake	Full-hydraulic wet disc brake (Four-wheel)
Parking brake	Disc brake
Emergency brake	Used as parking brake

Steering system

Type	Articulated, full-hydraulic power steering
Steering angle	40° (bi-directional)
Minimum turning radius (based on outer wheel center)	5950mm

Hydraulic System

Steering system	
Hydraulic pump	Gear pump
Maximum flow	168 l/min
Pressure setting of safety valve	19.5MPa

Steering cylinder

Type	Double-acting piston type
Number of cylinders	2
Cylinder bore × Stroke	100mm×467mm

Loading control

Hydraulic pump	Gear pump
Rated flow	235.2+168 l/min
Pressure setting of safety valve	20.5MPa

Working cylinder

Type	Double-acting piston type
Number of cylinders - Cylinder bore × stroke:	
Boom	2-180mm×792mm
Bucket	1-200mm×593mm
Control valve	Single-joystick

Control positions

Boom	Lift, hold, lower, and float
Bucket	Retract, hold, and dump

Working time of cylinders

Lifting	< 6s
Dumping	< 1.3s
Lowering (with empty bucket)	< 3.5s

Filling capacity

Cooling system	60L
Fuel tank	400L
Engine	33L
Hydraulic system	180L
Drive axle (each)	42L
Transmission	64L