

THE FUTURE OF MACHINERY



- Zero emissions
- Up to 250kW power
- Fuel cost conservation of more than 60%

MADE FOR AUSTRALIAN CONDITIONS



PURE ELECTRIC LOADER
XC968-EV

Product Specifications

OPERATING WEIGHT
21,600 kg

RATED POWER
270 kW

BUCKET CAPACITY
3.2m³

BATTERY
CATL 282 kW/h

LOWER THE COST, UP THE PERFORMANCE



PRODUCT HIGHLIGHTS

ENVIRONMENTAL PROTECTION

Configured with a pure-electric system, the XC968-EV produces zero emissions and lowers noise by 10-20dB, when compared to traditional loaders.

ENERGY EFFICIENT

Transmission efficiency is improved by more than 20 percent through braking energy recovery, when compared to traditional loaders.

COST PERFORMANCE

With a fuel cost conservation of more than 60 percent, the longer the machine is used, the higher the operating income becomes. Meanwhile, the simple structure of the pure electric system, ensures easy maintenance; saving time, materials, and labour costs.

MACHINE WALKAROUND

BATTERY

CATL 282kW/h battery
Lithium iron phosphate battery (LiFePO4 battery)
Travelling motor power: 270kW
Battery charging time: 55 minutes
(with 300kW charger)
Duration : 6-8 hours standard loading
 : 5-6 hours heavy duty loading
2 E-stops: 1 inside cabin
 : 1 outside cabin, ground touch

HYDRAULIC SYSTEM

XCMG quick hitch and third function hydraulics
Bucket automatic levelling
Boom kick-out automatic
SKF Lincoln auto lube system
Anti-burst valves
Hydraulic oil evacuation

CABIN

FNR control joystick :2 speeds FWD
 : 2 Speeds REV
Working environment -40°C - 50°C
Pilot control
Dual brake pedal
Adjusting steering wheel, operator seat and joystick
Pressurised cab with A/C
ROPS and FOPS certification
24V DC to 12V DC converter
Air suspension seat
Respa cabin pressuriser

ELECTRIC SYSTEM

Lockable battery and starter isolators
Emergency steering system
Ride control
Reverse camera
LED flashing beacon
240kW charging system

WORKING DEVICE

Quick hitch bucket 3.2m³
XCMG axle with wet type brake
23.5R25 tubeless radial tyres

UPPER STRUCTURES

Access ladder and handrails



OPTIMISED DESIGN

Featuring environmental protection, strong power, high reliability, easy maintenance and energy conservation, this machine is the solution to a wide selection of applications, including construction sites, mines, ports, roads, and many more.

- With 270kW rated power, the XC968-EV supplies 10% more power than that of fuel loaders in the same class.
- Optional configurations include buckets of 2.5-5m³, as well as quick changing and side-dumping tools.
- With a strong and enhanced manufacturing capacity, structural parts are welded using robots, ensuring the toughest structural design.
- Produced to withstand the most severe conditions, the XC968-EV was also designed for structural optimisation, minimising energy consumption during mechanical operation.
- Lubrication oil-ways are optimised without the drilling of holes on hinge pins; the strength and service life of the connecting hinge pins between the boom and bucket lead industry standards.

OPERATOR COMFORT

- The ultra-quiet and low-pressurised FOPS & ROPS cab, offers a large internal space, wide field of view, and comfortable operation. Dust-proof sealing and noise reduction damper ensures a clean working space, and the intelligent temperature control system ensures ideal working temperatures are maintained.
- The stability module function effectively reduces impact of uneven and bumpy surfaces, ensuring driver comfort, and preventing material scatter.

HIGHER INTELLIGENCE

- XCMG's intelligent management system, enables the user to master the operation and maintenance status of the equipment via phone, tablet, and computer. Users can achieve:
 - ◆ Optimised equipment matching
 - ◆ Enhanced productivity
 - ◆ Increased management efficiency
 - ◆ Lowered operation cost
 - ◆ Reduced operation risks
 - ◆ Optimised profitability.

"A really friendly group of people with a huge range of equipment."

Alan Hall - Brooks Equipment Customer



VALUE LIKE NO OTHER

DIESEL VS PURE ELECTRIC

- In a pure electric system, the maximum efficiency of the motor is more than 95 percent. The average efficiency of the transmission is up to 97 percent, configured with a braking energy recovery function. Traditional loaders have an average efficiency of less than 70 percent of the hydraulic torque converter with no recovery of the braking energy, causing high fuel consumption and emission levels.
- The XC968-EV's total power is up to 250kW while the energy consumption is lower than 40kW/h, utilising XCMG's motor power distribution technology.
- The XC968-EV is configured with a 282kW/h lithium iron phosphate battery with a charging time of 55 minutes.
- Replacing oil with electricity, the XC968-EV features a compact structure, without maintenance costs of air filters, engine oil filters, diesel filters, etc.

COMPARED WITH TRADITIONAL FUEL LOADERS, THE ANNUAL ENERGY SAVING OF THE XC968-EV IS:

DIESEL VS ELECTRIC	ENERGY CONSUMPTION	HOURLY COST (AUD/h)	15000h OPERATING COST (AUD)	REFERENCE UNIT ENERGY PRICE
ELECTRIC	40 kW.h	$40 \times 0.3 = 12$	180,000	Industrial use electricity unit price: 0.3AUD/kW.h
DIESEL	16.5L/h	$16.5 \times 2.2 = 36.3$	544,500	Diesel fuel price: 2.2 AUD/L
COST SAVING	/	/	364,500	/

ITEM	OPERATION COST SAVING FROM ELECTRIC VERSION	COST SAVING FROM OPERATION MAINTENANCE
6t Diesel-Version Loader	364,500	17,881
TOTAL	\$382,381 (AUD)	



SETTING NEW STANDARDS

IN DESIGN, SAFETY, AND PERFORMANCE



XC968-EV

Pure Electric Loader

DIMENSIONS & SPECIFICATIONS



Scan to view the XC968-EV product brochure

MAIN SPECIFICATIONS

BATTERY

Type	Lithium iron phosphate
Model	CATL 282 kW/h
Rated Power	270 kW
Voltage	618 V

MAIN PERFORMANCE

Travel Speed (Forward I/II)	18/36 km/h
Travel Speed (Reverse I/II)	18/36 km/h
Rated Load	5800 kg
Maximum Breakout Force	170 kN
Maximum Traction Force	174 kN
Total Cycle Time	9.7 s

NOISE

Near Driver's Ear	≤70 dB (A)
Radiation Noise	≤100 dB (A)

STANDARD

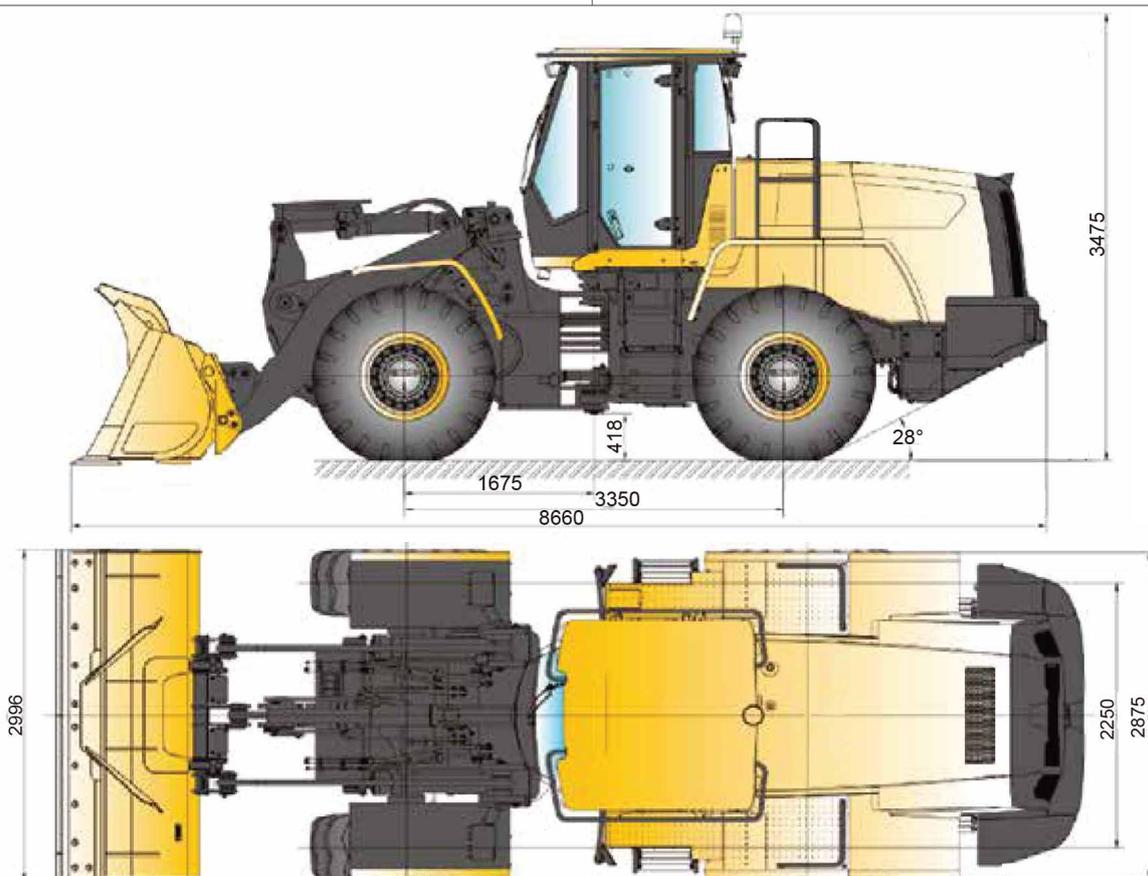
Bucket Capacity	3.2m ³
Tyre Specification	23.5 - 25

DIMENSIONS

Overall Length	8660 mm
Overall Width	2996 mm
Overall Height	3475 mm
Overall Width of Chassis	2875 mm
Min. Ground Clearance	418 mm
Bucket Width	2996 mm
Operating Weight	21600 kg

WORKING SCOPE

Dumping Height	3370 mm
Dumping Range	1200 mm
Wheelbase	3350 mm
Wheel Tread	2250 mm
Min. Turning Radius (Tyre Centre)	6005 mm
Steering Angle	40°
Tipping Load (Full Steering)	≥11600 kg
Unloading Height	3360 mm
Unloading Distance	1170 mm
Boom Lift Time	≤5 s
Total Cycle Time	≤10 s
Max. Gradeability	28°



SERVICE LIKE NO OTHER



With a dedicated Field Service team of qualified HD Mechanics, and access to OEM parts, you're connected to the best after sales support for your machine's full lifetime.

QUALITY



Quality tested machines, developed and built for Australian conditions.

GUARANTEE



All of our XCMG models come with first class warranty cover.

ANY TIME



Our team of experts are available 24 hours a day, 7 days a week.



PARTS ON YOUR DOORSTEP

Access to parts and support is made easy through XCMG's Australian Technical and Service Centre.

SUPPORT FROM BRANCHES AUSTRALIA WIDE



With Brooks Equipment branches Australia-wide, you have complete coverage for support and servicing, wherever you are in the country.

BROOKS

EQUIPMENT

Discover more about your XCMG machine



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