

# OPTIMISING PERFORMANCE

OPERATOR EFFICIENCY | FUEL ECONOMY | MAINTENANCE



**MADE FOR AUSTRALIAN CONDITIONS**



## WHEEL LOADER **XC938**

Product Specifications

OPERATING WEIGHT  
**11,400 kg**

RATED POWER  
**99 kW / 2200 rpm**

BUCKET CAPACITY  
**2.1m<sup>3</sup>**

ENGINE  
**Cummins QSB6.7**

## Built for tough Aussie conditions.



### PRODUCT HIGHLIGHTS

#### ■ PERFORMANCE POWER

Equipped with a Tier 3 emission Cummins QSB6.7 engine, ZF 4WG158 transmission, quantitative hydraulic system and XCMG wet axle; the entire machine offers significant advantages in reliability, efficiency, comfort, and control.

#### ■ OPERATING ENVIRONMENT

The fully sound-proofed, spacious cab and load sensing quantitative hydraulic system, ensures easy and comfortable operation, flexible steering, and low energy consumption.

#### ■ SERVICEABILITY

The engine diagnostic interface, fully openable hood, and easy to change filters, facilitate convenient maintenance and servicing.

### MACHINE WALKAROUND

#### ENGINE

Cummins QSB6.7-C130-30

#### TRANSMISSION

Transmission F4/R3, computer-controlled, electronic soft-shift, manual shift function  
Torque converter  
Transmission oil level inspection  
Transmission oil cooler  
Limited slip differential front axle\*  
Conventional type rear axle

#### HYDRAULIC SYSTEM

Boom lift limit, automatic  
Bucket levelling, automatic  
Diagnostic pressure fittings  
Hydraulic oil cooler  
Hydraulic oil level gauge (liquid level indicator)  
Pilot control (joystick)  
Stabiliser module system  
Third hydraulic system  
Automatic lubrication system  
Brake: Service brake (enclosed wet disc)  
Park brake

#### CABIN

ROPS/FOPS

Coat hook  
Rear view mirrors (2 outside, heated)\*  
Tiltable and telescopic steering wheel  
Roller sunshade (front)  
Roller sunshade (back)\*  
Tinted safety glass  
A/C and heating  
Wiper/washer (front and rear)  
3-point retractable seat belt and adjustable air-suspension seat  
Magazine pouch  
Console box  
Cup holder  
One brake pedal  
Dual brake pedal\*  
Radio/USB player  
Wrist supports and armrests  
24V to 12V DC converter (20A)\*  
120Ah, 12V batteries

#### LIGHTING

2 headlights (LED)  
1 LED dome light  
Rear combination lights (2 reverse, turn signal, position, and brake lights)  
LED roof working lights (2 front, 2 rear)  
2 LED rear hood working lights

#### WORKING DEVICE

Bucket: 2.1m<sup>3</sup> quick tooth/blade  
:1.8m<sup>3</sup> quick tooth/blade\*  
Tyres: 17.5R25, L3

#### SAFETY FEATURES

Fire extinguisher\*  
Emergency steering  
Boom safety bar  
Engine emergency stop  
Rear view camera  
Manuals: Operation & Maintenance  
Spare parts

#### OTHER

Engine Connection Diagnostics (ECD)  
Fenders (front/rear)  
Under guard (E/G, T/M)\*  
Mudguard\*  
Counterweight  
Traction bar with pin\*  
Intake preheating  
Fuel tank cap lock  
Electric horn  
Tool kit

# XC938 WHEEL LOADER

## EXCELLENCE IN CONSTRUCTION

### HYDRAULIC SYSTEM CONTROL

The quantitative hydraulic system and linkage structure, with a breakout force up to 130kN, provides easy and comfortable operation, flexible steering, and low energy consumption.

### TIER III SYSTEM

Cummins QSB6.7 engine with air-to-air intercooling and electronically controlled high-pressure common rail; the rated power is 99kW, meeting the demand of heavy-duty use.

### TRANSMISSION

The automatic ZF 4WG158 premium torque converter transmission - with two working modes - reduces shifting impact while travelling and working in various conditions.

### HEAVY-DUTY STRUCTURE

The heavy-duty load frame design ensures that the machine is strong and robust, with exceptional performance, and an extended overall operating life.

### HEAT MANAGEMENT

The large radiator and low speed fan, can adjust output according to heat dissipation, to reduce energy consumption.

### BUCKET FEATURES

The 2.1m<sup>3</sup> quick tooth/blade bucket, is made from wear-resistant and impact-resistant high strength steel plate, helping you work through even the toughest conditions.

### LIMITED SLIP DIFFERENTIAL

Improving the operability and reliability of the whole machine.

### REINFORCED WET DRIVE AXLE

Reinforced axle 'shell' materials and structure, offer high strength and good ductility. This circulation system - with a forced internal lubrication structure - ensures sufficient lubrication of the drive axle, while cooling and providing excellent heat dissipation.

### OPTIMISED THREE-SECTION DRIVE SHAFT

Distributing the force of the drive shaft when steering; the key block structure at the connection of the drive shaft, has an anti-loosening effect, making the torque transmission more stable and reliable.

### HIGH QUALITY HYDRAULIC HOSE

The inner layer of the hydraulic hose is made of oil-resistant synthetic rubber, and the outer layer is made of abrasion-resistant and anti-aging synthetic rubber; thus, allowing the hose to withstand harsh conditions and pressure.

### IMPROVED EFFICIENCY

The electronic level integrating shift function, minimises operation motions with higher working efficiency. It also improves travel performance and overall load retention.

### FUEL EFFICIENCY

Including a load sensing hydraulic system and adjusting operation condition, it delivers excellent fuel efficiency and provides longer uninterrupted use for the operator.



# UNCOMPROMISED SAFETY & SERVICEABILITY

## LEADING SAFETY STANDARDS

### EMERGENCY STOP

Emergency stop buttons on the inside and outside of cab.

### ROPS & FOPS

Sturdy and durable cab, capable of withstanding severe impact; ensuring safety during operation.

### PILOT LOCK

No movement of the joystick after closure, for safe servicing.

### RADAR (OPTIONAL)

Optional radar inclusion.

### INTERIOR SAFETY

The cabin's interior is made from flame retardant materials and includes a fire extinguisher (optional), A/C with great air flow, and a dust proof environment.

### EXTERIOR SAFETY

The ladders, passageway, operation platform and exit access, all comply with the safety standards of ISO 2867 and ISO 2860, putting your safety first. Also included, is an amber rotating beacon.

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

**Alan Hall - Brooks Equipment Customer**

## MAINTENANCE MADE EASY

### ENGINE CONNECTION DIAGNOSTICS

Engine diagnostic interface, able to diagnose engine faults.

### FULLY OPENABLE HOOD

The large-angle, rear tilting hood, allows easy access to the engine, radiator, transmission filter, and other components, for convenient maintenance.

### WIDE CORE & FIN RADIATOR

The radiator is designed with a finned structure and an enlarged radiator core; providing a large heat dissipation surface area. Each core is constructed in a modular design, facilitating easy replacement when required.

### SELF-CLEANING FAN

The low-speed radiator fan has automatic reversal function for self-cleaning in high dust working environments; helping to maintain your engine and increase its service life.

### RADIATORS & FUSE BOX

The up-turned back cover displays a single row of large tonne radiators and centred electrical fuse box, for effortless check-ups and maintenance.

### MAINTENANCE ACCESS

The side-turn cab and large-angle sides make for easy access and visual of all key components.

The remote centred lubrication and drainage pressure testing, provides easy access for maintenance and servicing.

### AUTOMATIC LUBRICATION SYSTEM

The centralised lubrication system, allows for adjustable lubrication intervals. The combination of automatic and manual lubrication methods, enhance the reliability of the lubrication system.

### HIGH QUALITY HYDRAULIC HOSE

The inner layer of the hydraulic hose is made of oil-resistant synthetic rubber, and the outer layer is made of abrasion-resistant and anti-aging synthetic rubber; thus, allowing the hose to withstand harsh conditions and pressure.



# TOP PERFORMER

## DESIGNED FOR THE OPERATOR

### SOUND PROOFED & SPACIOUS CAB

ROPS/FOPS cab, features a spacious interior and wide field of view. The frame is constructed using rectangular profiled tubes and floor-integrated welding techniques; designed to handle severe impact, ensuring your safety while operating. The micro-pressurisation technology, effectively isolates external dust.

### FNR PILOT JOYSTICK

Large pilot handle with FNR button, for easy and efficient one-handed operation.

### SIMPLE CONTROLS

Command-based controls, automatic position restriction, buffering function, jog, level and lift, and automatic levelling, ensures simple operation.

### ADJUSTABLE AIR SUSPENSION SEAT & ARMREST

High performance air suspension, shock absorbing seats; adjustable for both front and rear positions, softness, and hardness. Adjustable seat back angle, armrest box and seat, and independently adjustable handle position, meeting the needs of different operators.

### STABILISER MODULE

Effectively absorbing the impact of the working device cylinders during transportation; improving the overall stability of the machine.

### TEMPERATURE CONTROL

Dual-purpose A/C system with cooling and heating, featuring all-round air outlets for operator comfort. Equipped with an electric water valve for easy operation.

### WEIGHING SYSTEM (OPTIONAL)

Multiple accounts and products can be set, to facilitate the adaptation of different working conditions.



### VISIBILITY PLUS

In addition to 360° visibility provided by the panoramic window design, also included as standard, are front and rear working lights.

### INTELLIGENT DASHBOARD

Combination dashboard, connected to the controllers of the engine, transmission, and other working devices, through CAN Bus. This provides a real-time display of the machine's operating status, with a fault alarm function.

### STEERING LIMIT

Hydraulic soft-limit function, reduces the rigid impact when steering for a smooth and comfortable experience.



# INTELLIGENT & MANAGEABLE

Designed with advanced technologies to ease operator workload and increase efficiency, the XC938 engages the following systems within the cab:

## OPERATING SYSTEMS

### LCD MONITOR

- Parking brake
- Hour meter
- Fuel tank indicator



### SWITCHES

- Parking
- Battery master switch
- FNR gear
- Emergency steering
- Main light
- Working light
- Weighing system\*
- Mirror heating\*
- Rotating beacon
- Rear wiper
- Stabiliser module
- Camera

### ALARMS, AUDIO & VISUAL

- Battery voltage
  - Brake oil pressure (low pressure light alarm display)
  - Engine oil pressure
  - Fuel level
  - Engine coolant temperature
  - Emergency warning lamp
  - Transmission error codes
  - Transmission oil temperature
- Air filter clogging (mechanical as standard, electronic optional)\*

### GAUGES

- Engine coolant temperature
- Fuel level
- Engine tachometer
- Engine oil pressure gauge
- Battery voltmeter
- Transmission oil temperature

### INDICATOR

- Parking brake
- High beam
- Turn signal light
- Seat belt ON/OFF\*
- Stabiliser module

\*Optional inclusion



# TOP PERFORMANCE

## - XC938 AT A GLANCE -



# XC938

## Wheel Loader

### DIMENSIONS & SPECIFICATIONS



Scan to view the XC938 product brochure

#### MAIN SPECIFICATIONS

##### MODEL

Operating Weight	11400 kg
Rated Load	3000 kg
Bucket Capacity	2.1 m <sup>3</sup>
Max. Digging Force	130 kN
Max. Tipping Load:	
Steering	7000 kg
Straight	9200 kg

##### ENGINE

Type	Cummins QSB6.7
	6 cylinder, inline four-stroke turbocharged, air-to-air intercooled, electronically controlled common rail
Max. Power	99 kW @ 2200 rpm
Peak Torque	570/1400 Nm @ 1500 rpm
Displacement	6.7 L

##### AXLES

Drive System	Four-wheel drive
Front Axle	Fixed
Rear Axle	Oscillation angle 12°
Hub Reduction	Wheel-side planetary speed reducer
Differential:	
Front	Common differential (limited slip optional)
Rear	Common differential
Reduction Ratio	20.521

##### SERVICE REFILL CAPACITIES

Fuel Tank	300 L
Cooling System	45 L
Engine Oil	22 L
Transmission	45 L
Front Axle	55 L
Rear Axle	55 L
Hydraulic Tank	200 L
Hydraulic System (Including tank)	260 L

##### HYDRAULIC SYSTEM

Type	Quantitative system
Pump	Gear pump
Control Valve	3 multi-way valve
System Pressure	17.5
Lift Circuit	Yes
Tilt Circuit	Yes
Cylinder:	
Lift	2-125 x 810 mm
Tilt	1-160 x 530 mm
Cycle Time (rated load):	
Lift	5 s
Lower	3 s
Tipping	1 s
Total	9 s

##### STEERING SYSTEM

Type	Flow-amplified, load sensitive
Pump	Fixed displacement pump
Rated Oil Capacity	138.6 L/min
System Pressure	160 bar
Cylinder	Double acting
Steering Angle	38° both right and left angle
Features	Centre-point frame articulation Tilt and telescopic steering column

##### NOISE

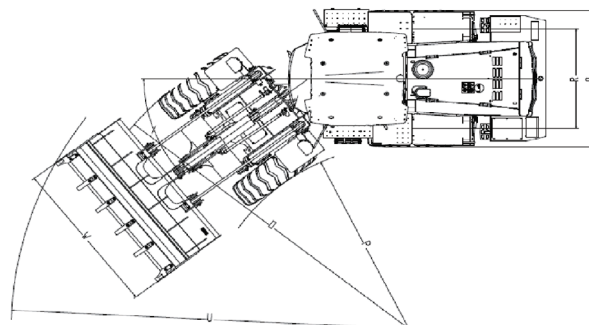
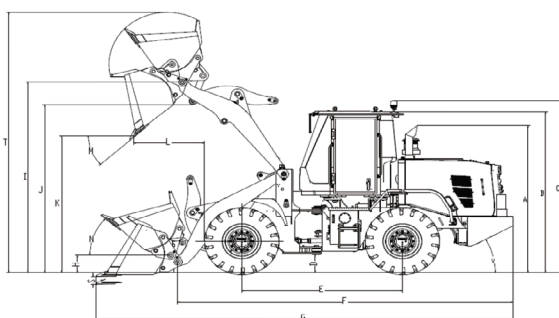
Exterior sound power level at cooling fan max. speed	112 dB
Operator sound pressure level	79 dB
Exterior sound power level	104 dB

##### TRANSMISSION

4 Speed Transmission	4WG158
	Semi-automatic electric control box
Travel Speed FWD	8/13/27/36 km/h
Travel Speed RVS	8/13/27 km/h
Brake Distance	Less than 11 m

##### DIMENSIONS & WORKING SCOPE

Height:		
Top of exhaust pipe		2962 mm
Top of cab		3220 mm
Top of warning light		3445 mm
Ground Clearance		370 mm
Wheel Base		2900 mm
Overall Length (Without bucket)		6260 mm
Transportation Length (Bucket flat on ground)		7650 mm
Pivot Height :		
Flat bucket		380 mm
Max. lifting		3839 mm
Lift Arm Clearance (Max. lifting)		3390 mm
Dumping Clearance (Max. lifting and 45° dumping)		2800 mm
Dumping Reach (Max. lifting and 45° dumping)		1250 mm
Dumping Angle (Max. lifting and dumping)		40°
Rollback Angle:		
Ground		40°
Carry		45°
Tyre Radius:		
Outside		5270 mm
Inside		3025 mm
Overall Width		2245 mm
Wheel Track		1850 mm
Digging Depth		60 mm
Max. Lift Height		5130 mm
Turning Radius (Outside of bucket)		6055 mm
Gradeability		28°
Bucket Width		2580 mm
Steering Angle		38°



# 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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