ZW series

ZW 370
G Type

WHEEL LOADER

- Model Code: ZW370-G
- Operating Weight: 28,970 - 29,700 kg
- Bucket Capacity: ISO Heaped: 4.2 - 7.5 m³
- Max. Engine Output: 255 kW (340 HP)
Introducing the New Productive Wheel Loaders:

ZW Series

Top-Class Production with High Dependability

Extra Power and Performance for Top-Class Productivity

Computer-Controlled Engine

The Engine Control Module (ECM) provides essential operating data for efficient fault diagnosis and troubleshooting. The Cummins diagnosis tools also provide key engine data for quick, accurate analysis.

Advanced Hydraulic Cooling Fan

Hydraulic cooling fan speed varies with changes in operating temperatures to reduce noise and fuel consumption.

Outboard Wet Disc Brakes

The outboard-mounted, sealed wet disc brakes produce plenty of braking force, and keep out dirt. Dual lines are independently provided for front and rear axles for added safety.

Power Mode and Fuel-Efficient Mode

There are two engine modes — Power mode and Fuel-Efficient mode. Select the Power mode to boost power for higher production, and the Fuel-Efficient mode for fuel economy.

Load-Sensing Hydraulic Steering System

The load-sensing hydraulic steering system boosts steering force, when needed, in the main hydraulic circuit. This makes possible the full use of pump torque for higher job efficiency.

Limited Slip Differential (LSD) (Optional)

The Limited Slip Differential (LSD) effectively yields big traction force to suit job needs.

Torque Proportional Differential (TPD)

The Torque Proportional Differential (TPD) adjusts torque to both wheels. When road resistances under both wheels are different, the TPD prevents the slippage of a wheel on softer ground, unlike conventional differentials. This feature allows the ZW370 to easily get out of swamps and rough terrains.
**Comfortable**

**High Visibility**

The cab gives good visibility with inside and outside rear view mirrors. The front windshield is a flat glass mounted with rubber gaskets for easy replacement. The cab rests on viscous mounting to absorb shocks and noise for operator comfort.

**Full-Auto Air Conditioner/Heater**

The air conditioner/heater is controlled automatically and thermostatically to enhance operator comfort. Air vents provide good air circulation inside, and defrosting all the year around. The cab is pressurized to keep out dirt.

**Down-Shift Switch**

The down-shift switch, mounted on the lift arm control lever, allows the operator to make easy downshifting from the 2nd to 1st gear.

**Adjustable Steering Column**

The steering column is tiltable and telescopic to suit operator’s build for comfortable positioning and operation.

**Fully Adjustable Mechanical Suspension Seat**

The suspension seat is fully adjustable for riding comfort, reducing operator fatigue and increasing operator’s productivity.

**Assortment of Accessories**

An assortment of accessories, including radio (optional), glove box, cup holder and storage compartment, are conveniently located inside.

**ROPS/FOPS Cab (Optional)**

This ROPS/FOPS cab is adopted to protect the operator from injury in the case of an accident.

**ROPS: Roll-Over Protective Structure, ISO3471**

**FOPS: Falling Object Protective Structure, ISO3449**

**Easy Access for Quick Servicing**

**Easy Access to Engine and Filters**

Machine covers open wide for easy access to the engine and filters for efficient servicing and inspection. Filters and grease fittings are grouped for the convenience of replacement and lubrication.

**Multi-Coat Painting Process**

Hitachi’s advanced multi-coat painting process, consisting of electro-deposition (ED) primer, baked melamine alkyd finish coat and fluoric super protection coat, is applied to sheet metal parts like covers, achieving durable and attractive finish with high resistance to corrosion and damage.

**Halogen Head Lights**

Front and rear working lights are bright halogen lamps for safer night-shift operation.

**LED Brake and Tail Lights (Optional)**

The rear tail lights are long-life LED lamps that are very bright and durable.

**DT Connectors**

Sealed Deutsch DT connectors are used throughout the electrical system to reduce corrosion and ensure positive connection.

**Durable and Dependable**

**Strong Lift Arms and Bucket**

The strong lift arms and linkage yield high production during digging, loading and hauling. Big bucket breakout force and optimum bucket rollback bring about high production and good load retention. Buckets are designed and shaped for efficient scooping-up and loading. Bolt-on cutting edges are easy to replace. The bucket leveler and boom kickout come standard.

**Ride Control System (Optional)**

The ride control system can reduce pitching and bouncing when traveling on rough terrain and snow road. This system automatically controls the implement to reduce shocks and vibration.

**Full Box-Section Track Frame**

The track frame is box-section structured to resist twisting loads.

**Sealed Bucket Hinge Pins**

The bucket hinge pins are hermetically sealed to retain grease inside for longer service life.
SPECIFICATIONS

ENGINE
Model: Cummins QSK15
Type: Six-cylinder water-cooled, direct injection
Aspiration: Turbocharged and intercooled
No. of cylinders: 6
Maximum power: 265 kW (340 HP) at 2,100 min⁻¹ (rpm)
Bore and stroke: 137 mm x 170 mm
Piston displacement: 150.3 L
Batteries: 2 x 12 V / 146 CCA, 144 Ah
Air cleaner: Two element dry type with restriction indicator

POWER TRAIN
Transmission: Torque converter, planetary gear type powershift with computer-controlled automatic shift and manual shift features included.
Torque converter: Three element, single stage, single phase
Main clutch: Wet hydraulic, multi-disc type
Cooling method: Forced circulation type
Travel speed (km/h): 7.7 / 8.2
1st: 14.2 / 15.0
2nd: 22.9 / 24.0
4th: 34.0 / -

TIREs
Tire size: 20.5-25-22PR (L3)

BRAKES
Service brakes: Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit.

STEERING SYSTEM
Type: Articulated frame steering
Steering mechanism: Completely hydraulic power steering
Steering angle: Each direction 45°, total 90°
Cylinders: Two double-acting piston type
No. x Bore x Stroke: 2 x 90 mm x 600 mm
Minimum turning radius at the centerline of outside tire: 6.110 mm

HYDRAULIC SYSTEM
Lift arm and bucket are controlled by independent control lever.
Lift arm controls: Four position valve; Raise, hold, lower, float
Bucket controls with automatic bucket return-to-idle control: Three position valve; Roll back, hold, dump
Man/pump: Steer/pump: Fixed displacement type gear pump
Charging pump: Fan/pump: Fixed displacement type gear pump
Hydraulic cylinders:
Type: Two lift arm and two bucket, double acting type

SERVICE REFILL CAPACITIES
Fuel tank: liters
Engine oil: liters
Cooling system: Fixed displacement type gear pump

DIMENSIONS & SPECIFICATIONS

AXLE AND FINAL DRIVE
Drive system: Four-wheel drive system
Front & rear axle: Full-floating
Front: Fixed to the front frame
Rear: Transmission support
Reduction and differential gear: Spiral bevel gear with torque proportional differential
Oscillation angle: Total 24° (+12°, -12°)
Final drives: Heavy-duty planetary, mounted oncard

BUCKET SELECTION GUIDE

WEIGHT CHANGE

2. Static tipping load and operating weight marked with * include 29.5-25-22PR (L3) tires (No ballast) with lubricants, standard counterweight, full fuel tank and operator.

Weighing machine stability and operating weight depend on counterweight, tire size and other attachments.
## STANDARD EQUIPMENT

### ELECTRICAL
- Alternator, 75 ampere and 24 volts
- Back up alarm
- Brake and tail lights
- Electric starter
- Halogen headlights with high and low beams (2 front)
- Halogen working lights (4 front and 2 rear)

### GAUGES AND INDICATORS
- Air cleaner warning lamp
- Auto shift indicator lamp
- Battery charge lamp
- Brake pressure warning lamp
- Engine coolant temperature gauge and warning lamp
- Engine oil pressure warning lamp
- Fuel level gauge
- High beam indicator lamp
- Hour meter
- Neutral indicator lamp
- Parking brake indicator lamp
- Tachometer
- Torque converter oil temperature gauge and warning lamp
- Transmission oil filter restriction indicator
- Transmission control warning lamp
- Transmission clutch cut-off switch

### OPERATOR ENVIRONMENT
- Adjustable operator seat with mechanical suspension
- Two-lever for two-spool control valve
- FNK lever
- Down-shift switch
- Transmission clutch cut-off switch
- Ashtray
- Cup holder
- Cigarette lighter
- Coat hook
- Electric dual horns
- Rubber floor mat
- Front and rear wiper and washers
- Full automatic air conditioner
- Rear view mirrors (interior and exterior)
- Soft cab (left and right doors open, sliding windows by regulator handles)
- Seat belt (2 inch)
- Storage compartment
- Sun visor
- Telescopic and tilt steering wheel
- Tinted safety glass

### POWER TRAIN
- Cummins QSX15 diesel engine
- Full hydraulic enclosed wet multi-disc brakes
- Auto shift transmission (F4/R3)
- Torque proportioning differentials (front/rear)
- Tires, 29.5-25-22 PR(L3) tubeless

### OTHERS
- Bucket auto leveler
- Lift arm kick-out
- Drawbar, with rocking pin
- Handrails
- Ladders, left and right
- Power mode & FE mode
- Loading linkage, sealed Z-bar type dual cylinders
- Secondary brake
- Vandalism protection kit
- Front/rear fenders

### BUCKET
- General purpose bucket with bolt-on cutting edges: 5.0 m³ (ISO heaped)

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT
- Two-spool main control valve with mono lever
- Three-spool main control valve with three levers
- Adjustable operator seat with air suspension
- Head rest
- AM/FM Radio
- Radio antenna and wiring, stereo speakers
- Turn signals with four-way flasher
- Seat belt (3 inch)
- ROPS/FOPS cab (left and right door open, sliding windows by regulator handles)
- Brake and tail lights (LED)

### OTHERS
- Heavy counterweight
- Heavy counterweight for logging
- Under guard
- High lift arm
- Bucket cylinder guard
- Mud guard for front fender
- Wide front fender with mud guard
- Low temperature (-35 degree C) kit

### BUCKET
- General purpose bucket with bolt-on teeth: 4.8 m³ (ISO heaped)
- Rock bucket (straight edge) with weld-on teeth: 4.3 m³ (ISO heaped)
- Rock bucket (V-edge) with weld-on teeth: 4.5 m³ (ISO heaped)
- Coal bucket with bolt-on cutting edges: 7.5 m³ (ISO heaped)
- High lift arm with bolt-on cutting edges: Rock bucket 4.2m³ (ISO heaped)

**Note:** *: ROPS (Roll Over Protective Structure) Conforms to ISO 3471:1994
** : FOPS (Falling Objects Protective Structure) Conforms to ISO 3449, 1992 Level II

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator’s Manual for proper operation.