ZW-6 series

HITACHI

Reliable solutions

| | | | | |
|---|---|---|---|---|
| **ZW220**<br>Tier 4 Final Certified | **200 hp** 149 kW<br>Engine Output, Max, Gross (ISO 14396) | **194 hp** 145 kW<br>Engine Output, Max, Net (ISO 9249) | **4.2 yd³** 3.2 m³<br>Bucket capacity | **38,912 lbs** 17,650 kg<br>Operating weight |
| **ZW250**<br>Tier 4 Final Certified | **253 hp** 186 kW<br>Engine Output, Max, Gross (ISO 14396) | **246 hp** 181 kW<br>Engine Output, Max, Net (ISO 9249) | **4.8 yd³** 3.7 m³<br>Bucket capacity | **46,050 lbs** 20,890 kg<br>Operating weight |

# ZW220-6 and ZW250-6 NO COMPROMISE

With substantial loading capacity, powerful digging force and impressive travel speeds, the Hitachi ZW-6 wheel loaders offer exceptional levels of performance, without compromising on efficiency — thanks to low levels of fuel consumption.

The innovative engineering, reliable features and durable components on the ZW220-6 and ZW250-6 demonstrate Hitachi's capability for manufacturing construction machinery of the highest quality. It is also extremely versatile to meet the diverse needs of North American customers.

**6.** A TRACK RECORD FOR RELIABILITY

**8.** DURABILITY TO DEPEND ON

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# DEMAND PERFECTION

The ZW220-6 and ZW250-6 have been designed and built using market-leading technology in Japan. Developed to perfection, with an emphasis on the environment, operator comfort and safety, it responds to customer demands for exceptional productivity at the lowest possible cost of ownership.

**Powerful performance**
Quick power switch increases engine output when required.


**Industry-leading safety**
360° visibility from the cab.

**Easy to operate**
Multifunctional monitor shows information at a glance.

**Smooth operation**
Ride control minimizes machine pitching.

**Superior comfort**
Spacious cab with several storage compartments.

### Enhanced design
Excellent rear view thanks to the curved engine hood.

### Quieter performance
New materials in the cab absorb sound to reduce noise levels.

### Improved fuel efficiency
Lock-up transmission and Tier 4 Final-compliant engine.

### Low running costs
6% fuel saving in V-shaped loading (5% in load and carry operations).


### User-friendly
Effortless control with the optional e-Stick Steering System.

### Convenient access
Easy-to-open wide engine covers.

# A TRACK RECORD FOR RELIABILITY

Like all Hitachi wheel loaders, both the ZW220-6 and the ZW250-6 are renowned for their reliability to achieve optimum performance with minimum downtime. Both have proven to operate at high levels of efficiency, on a wide range of job sites. This is a testimony to the numerous easy-to-maintain features of the ZW series of wheel loaders

### Reduced cost
The new Tier 4 Final certified engine does not require a diesel particulate filter, which further reduces fuel consumption and maintenance costs.

### Improved fuel efficiency
The ZW220-6 and ZW250-6 demonstrate greater fuel efficiency than the previous models during V-shape loading, and load and carry operations. This results in considerable savings for running costs.

### Easy maintenance
For safer and easier maintenance, the battery disconnect switch is standard. This helps to avoid electrical accidents and retain battery energy during long-term storage.

### Quick access
The engine covers open fully for convenient access. This helps to ensure routine maintenance is completed quickly to ensure a reliable performance.

Easy access to the engine compartment.



Easy access battery compartment.



Tier 4 Final engine reduces fuel consumption.

Increased lift arm strength.


Optional clog resistant cooling cores enhance durability.

The final pre-delivery inspection procedure for each Hitachi wheel loader is typical of Hitachi's dedication to manufacturing products of unfailing quality in response to customer needs.

# DURABILITY TO DEPEND ON

Hitachi's global reputation for producing robust construction machinery continues with its new wheel loaders. Designed and engineered to operate reliably across a wide range of demanding job sites, the ZW220-6 and the ZW250-6 are. guaranteed to deliver a durable performance.


The optional belly guard provides added protection.

## Added protection

The optional belly guard protects the machine powertrain and driveshaft from potential damage caused by materials on the ground.

## Strengthened components

The lift arm torsion of both the ZW220-6 and the ZW250-6 have been increased to meet customer demand. This also enhances productivity during lifting operations.

## Durable materials

High-quality radiators improve resistance to corrosion and enhance the overall durability of the ZW250-6 wheel loader.

## Maximum uptime

Anti-Clogging radiators, standard on the ZW250-6, Optional on the ZW220-6, are designed with wide spaced square-shaped fins, instead of triangular-shaped fins to resist clogging. This reduces cooling cores maintenance.

# EXCEPTIONAL VERSATILITY

The smooth and efficient operation of Hitachi wheel loaders makes them an ideal choice for a wide range of applications. Several features contribute to the overall versatility of these machines, and bring additional benefits of increased productivity, fuel efficiency and safety.

### Efficient flexibility
The quick power switch increases engine output when more power is instantly required, or when driving uphill.

### Enhanced rear visibility
The muffler and air intake have been repositioned and aligned to improve the rear-view visibility from the cab, enhancing safety on a variety of job sites.

### High productivity
The simultaneous movement of the bucket and lift arm ensures a smooth digging operation. The Hitachi flow control system ensures smooth lift arm starts and stops.

### Improved fuel efficiency
The five-speed transmission contributes to the versatility of the ZW220-6 and the ZW250-6, bringing additional benefits of increased productivity and fuel efficiency. A lock-up feature, available as standard on the ZW250-6 and larger machines, further reduces fuel consumption on loading and carrying applications.

### Effective control
To ensure a smooth drive on all kinds of terrain, the ride control feature prevents unnecessary pitching via the movement of lift arm cylinders.

Rear visibility has been enhanced by design modifications.


The ride control feature ensures a smooth travel performance.

Urea is injected into the exhaust gas to reduce emissions.

Ground level access for easy maintenance.

ⓘ Hitachi conducts user tests to assess the features of its wheel loaders. Results have revealed an unrivaled level of control.


# DEDICATED TO QUALITY

Each new Hitachi wheel loader is rigorously tested to ensure it meets the highest possible standards of performance, reliability, comfort and safety. Built using high-quality components, the ZW220-6 is one of the quietest wheel loaders and offers the best all-round visibility in its class.

NO DPF SCR system reduces emissions.

## Reduced emissions

A selective catalytic reduction (SCR) system injects urea into exhaust gas to reduce nitrous oxide from emissions. This cutting-edge technology not only helps the environment, but also complies with Tier 4 Final emission regulations.

## Easy access

The engine air filter has been relocated to the rear of the engine compartment, providing easier access at ground level for maintenance. The urea tank is also positioned for convenience.

## Excellent visibility

The 360° panoramic view from the spacious cab creates a comfortable working environment, and helps to increase safety and productivity. The rear-view camera also contributes to excellent all around visibility and safety on the job site.

## Improved comfort

Sound insulation has been improved in the cab to significantly reduce noise levels and provide a quieter working environment for operators. The low-noise engine also results in a quieter performance, which makes it suitable for working in urban areas.

The 360° panoramic view provides exceptional visibility.

Easy access for maintenance from ground level.

Hitachi conducts user tests to assess the features of its wheel loaders. Results have revealed an unrivaled level of control.


# CONSISTENT QUALITY

Quality is high on the agenda during the development of Hitachi construction machinery. Every wheel loader is built using the finest components, and is tested to ensure it meets the highest possible standards of performance, reliability, safety and comfort. As a result, the ZW250-6 is not only one of the quietest in its class, but it also offers the best all around visibility.

The SCR system reduces emissions.

## Reduced emissions

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# EXPERTS IN TECHNOLOGY

Hitachi uses advanced technology to create construction machinery that offers exceptional levels of performance at the lowest possible cost of ownership. Its relentless pursuit of innovation enables it to enhance the experience of customers and constantly raise industry standards.

## Reduced maintenance

The new Tier 4 Final certified engine contains a high-volume cooled exhaust gas recirculation (EGR) system, a common rail-type fuel injection system and a diesel oxidation catalyst (DOC) without DPF. This helps to reduce maintenance requirements.

## Smaller environmental impact

The standard auto shutdown feature helps to prevent fuel waste, as well as reduce noise levels, exhaust emissions and $CO_2$ levels of the ZW220-6 and ZW250-6 wheel loaders.

## Multifunctional display

A large LCD color monitor shows all the information required to operate the Hitachi ZW-6 wheel loader. This includes power mode, oil temperature, and fuel and urea levels, which is useful for easy maintenance. It also includes the display for the easy-to-use rear camera, which enhances visibility for safe operation.

## Remote monitoring

Global e-Service allows both ZW220-6 and the ZW250-6 owners to monitor their Hitachi machines remotely via Owner's Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximize efficiency, minimize downtime and improve overall performance.

## User-friendly operation

The optional Joystick Steering System enables operators to reach high levels of productivity with effortless steering, and incorporates a number of useful functions.

## Optimum performance

Hitachi ZW-6 wheel loaders are fitted with a multifunctional LCD color monitor that shows useful information at a glance, such as fuel and urea levels, oil temperature and power modes. It ensures an optimum performance and easy maintenance. It also includes the display for the easy-to-use rear-view camera, which enhances visibility for a safe operation.

The LCD monitor shows the machine's status and settings.

The optional e-Stick Steering System provides exceptional control.

Urea levels can be checked from the cab.

Remote monitoring using Global e-Service maximizes efficiency.

# REDUCING THE TOTAL COST OF OWNERSHIP

Hitachi has created the After Sales Solutions Program to ensure optimum efficiency, as well as minimal downtime, reduced running costs and high resale values.

## Global e-Service

Hitachi has developed two remote monitoring systems as part of its Global e-Service online application. Owner's Site and ConSite are an integral part of the wheel loader, which sends operational data daily via GMS to www.globaleservice.com. This allows immediate access to the Owner's Site, and the vital information that is required for support on job sites.

Comparing the ratio of operating and non-operating hours helps to enhance efficiency. Effective management of maintenance programs helps to maximize availability.

Running costs can also be managed by analyzing the fuel consumption. The location and movements of each machine are clearly displayed for essential planning.

An automatic service report — ConSite — sends a monthly email summarizing the information from Global e-Service for each machine. This includes: daily working hours and fuel consumption data; statistics on the operating mode ratio, plus a comparison for fuel consumption/efficiency, and $CO_2$ emissions.

## Technical support

Each Hitachi service technician receives full technical training from Hitachi Construction Machinery Americas Inc. (HCMA) in the USA. These sessions provide access to the same technical knowledge available within the Hitachi quality assurance departments and design centers. Technicians combine this global expertise with the local language and culture of the customer to provide the highest level of after-sales support.

Global e-Service

Technical support

Hitachi Parts

## Extended warranty and service contracts

Every new Hitachi ZW-6 model is covered by a full manufacturer's warranty. For extra protection — due to severe working conditions or to minimize equipment repair costs — Hitachi dealers offer a unique extended warranty called HELP (Hitachi Extended Life Program) and comprehensive service contracts. These can help to optimize the performance of each machine, reduce downtime and ensure higher resale values.

## Parts

Hitachi offers a wide range, and high availability, of parts located in the new 400,000 sq. ft. Parts Depot centrally located just outside of Atlanta, Georgia.

- Hitachi Genuine Parts: allow machines to work longer, with lower running and maintenance costs.
- Hitachi Select Parts and Genuine Parts: are of proven quality and come with the manufacturer's warranty.
- Performance Parts: to cope with highly demanding conditions, they have been engineered for greater durability, better performance or longer life.
- Genuine Hitachi rebuilt components are available from HCMA's in-house rebuild center and are offered with a standard warranty.

Whatever the choice, the renowned quality of Hitachi construction machinery is assured.

# SPECIFICATIONS

**Model Name: ZW220-6, EPA Tier 4 Final/EU Stage IV Certified**

## ENGINE

| | |
|---|---|
| Gross power (ISO 14396) | 200 HP/1,600 RPM<br>(149 kW/1,600 RPM) |
| Net power (ISO 9249) | 194 HP/1,600 RPM<br>(145 kW/1,600 RPM) |
| Make/Model | Cummins QSB6.7 diesel engine |
| Type | 4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler |
| Fuel type | #2 Diesel (Requires ultra-low sulfur fuel.) |
| Fuel injection pump | Electronically controlled,<br>common rail type |
| Governor | All speed electrical type |
| Cooling module type | Hydraulic-driven, suction-type fan,<br>pressurized radiator |
| Number of cylinders | 6 |
| Bore and stroke | 4.2" x 4.9" (107mm x 124mm) |
| Total displacement | 408.2 $in^3$ (6.69 liters) |
| Alternator | DC 24V-65A (1.56 kW) |
| Air cleaner | Dry type (double element) |
| Starter motor | DC 24V-10.6 HP (7.8 kW) |
| Battery | DC 12V-1,000 CCA (108 Ah), 2 units |

## TORQUE CONVERTER AND TRANSMISSION

| | | |
|---|---|---|
| Torque converter | 3-element, single-stage, 1-phase | |
| Transmission | Countershaft type, Full power shift | |
| | Normal Mode | Power Mode |
| Speeds: Forward | 1st: 3.9 MPH (6.2 km/hr)<br>2nd: 6.6 MPH (10.6 km/hr)<br>3rd: 9.9 MPH (16.0 km/hr)<br>4th: 14.8 MPH (23.8 km/hr)<br>5th: 22.4 MPH (36.0 km/hr) | 1st: 4.0 MPH (6.5 km/hr)<br>2nd: 6.9 MPH (11.1 km/hr)<br>3rd: 10.4 MPH (16.8 km/hr)<br>4th: 15.5 MPH (25.0 km/hr)<br>5th: 22.4 MPH (36.0 km/hr) |
| Speeds: Reverse | 1st: 4.0 MPH (6.5 km/hr)<br>2nd: 6.9 MPH (11.1 km/hr)<br>3rd: 15.5 MPH (24.9 km/hr) | 1st: 4.2 MPH (6.8 km/hr)<br>2nd: 7.3 MPH (11.7 km/hr)<br>3rd: 16.3 MPH (26.2 km/hr) |

## SYSTEMS REFILL CAPACITY

| LOCATION | GALLONS | LITERS |
|---|---|---|
| Fuel tank (diesel fuel) | 67.4 | 255 |
| Engine lubricant (including oil pan) | 6.6 | 25 |
| Engine coolant | 8.7 | 33 |
| T/M & T/C | 7.1 | 27 |
| Axle (front/rear) | 8.5/8.5 | 32/32 |
| Hydraulic oil tank | 30.1 | 114 |
| Hydraulic system (including hydraulic tank) | 48 | 180 |
| DEF/AdBlue® tank | 6.6 | 25.1 |

## HYDRAULIC AND STEERING SYSTEM

| | | |
|---|---|---|
| Steering type | | Articulated frame steering |
| Steering mechanism | | Hydraulic power steering unit,<br>pilot operated type |
| Lift (boom) cylinder | | Two (2) double-acting piston type:<br>5.1" x 34.7" (130mm x 880mm) |
| Tilt (bucket) cylinder | | One (1) double-acting piston type:<br>6.496" x 20.078" (165mm x 510mm) |
| Steering cylinder | | Two (2) double-acting piston type:<br>2.8" x 17.4" (70mm x 442mm) |
| Main oil pump | | Variable Piston type:<br>72.6 GPM/710 PSI @ 2,200 RPM<br>(275 LPM/4.9 MPa @ 2,200 RPM) |
| Pilot oil pump | | Gear type: 9.3 GPM/570 PSI @ 2,200 RPM<br>(35.1 LPM/3.9 MPa @ 2,200 RPM) |
| Relief valve set pressure | Loading | 3,974 psi, 27.4 MPa (280 $kgf/cm^2$) |
| | Steering | 3,974 psi, 27.4 MPa (280 $kgf/cm^2$) |

HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system

| | Normal Mode | Power Mode |
|---|---|---|
| Lifting time (at full load) | 5.9 sec. | 5.6 sec. |
| Lowering time (empty) | 3.3 sec. | 3.3 sec. |
| Bucket dumping time | 1.6 sec. | 1.5 sec. |
| TOTAL | 10.8 sec. | 10.4 sec. |

* Measured in accordance with SAE J732C

## AXLE SYSTEM

| | |
|---|---|
| Drive system | 4-wheel drive |
| Front and rear axle | Semi-floating type |
| Tires | 23.5-25-20PR (L-3) Tubeless |
| | 23.5R25 (L-3) Radial |
| Reduction and differential gear | Two stage reduction with limited slip differentials |
| Final reduction gear | Inboard mounted, internal planetary gear |
| Oscillation angle | Total 24° (+12°, –12°) |

## BRAKE SYSTEM

| | |
|---|---|
| Service brakes | Inboard mounted fully hydraulic 4-wheel wet disc brake. Front & rear independent brake circuit. |
| Parking/Emergency brake | Spring-applied, hydraulically-released dry disc type with external output shaft. Located on driveline. |

### Remarks

- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
- Counterweight should not be used with tire ballast.
- This specification sheet may contain attachments and optional equipment not available in your area.

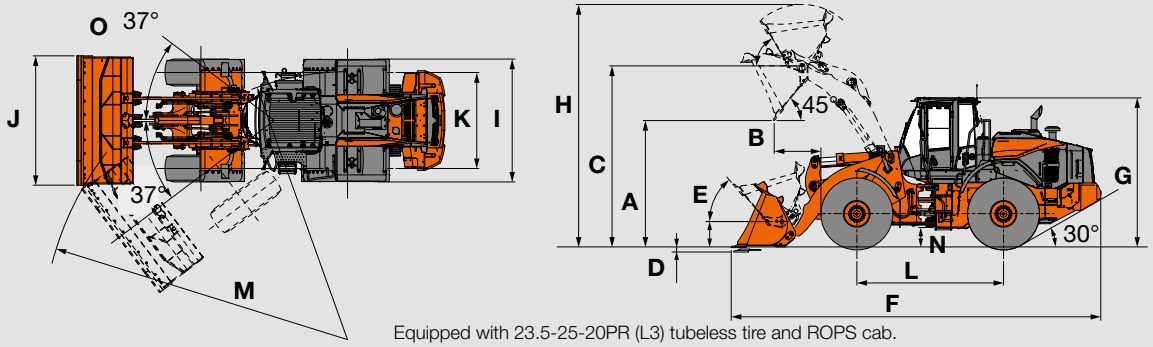
Please contact your local HCMA dealer for additional information.

## BUCKET DATA

| | | | Standard Boom | | | High Lift Boom |
|---|---|---|---|---|---|---|
| | | | General Purpose | | Material Handling | Material Handling |
| | | | Straight Edge With Bolt-on Cutting Edge | Straight Edge With Teeth and Segments | Straight Edge With Bolt-on Cutting Edge | Straight Edge With Bolt-on Cutting Edge |
| Capacity | Heaped | $yd^3$ ($m^3$) | 4.2 (3.2) | 4.2 (3.2) | 4.7 (3.6) | 4.2 (3.2) |
| | Struck | $yd^3$ ($m^3$) | 3.5 (2.7) | 3.5 (2.7) | 4.0 (3.1) | 3.5 (2.7) |
| **A** Maximum dumping clearance | | ft-in (mm) | 9'6" (2,890) | 9'3" (2,810) | 9'5" (2,860) | 10'10" (3,300) |
| **B** Dumping reach (to front of bucket edge or tooth) | | ft-in (mm) | 3'8" (1,130) | 4' (1,220) | 3'10" (1,170) | 4'3" (1,290) |
| **C** Max. hinge pin height | | ft-in (mm) | 13'5" (4,090) | 13'5" (4,090) | 13'5" (4,090) | 14'9" (4,500) |
| **D** Digging depth (with bucket level) | | in (mm) | 4" (100) | 4" (100) | 4" (100) | 7" (180) |
| Breakout force | | lb (kN) | 32,630 (145) | 32,630 (145) | 31,050 (138) | 29,700 (132) |
| Bucket tilt-back angle | at ground level | degree | 50° | 50° | 50° | 48° |
| | **E** at carry position | degree | 50° | 50° | 50° | 50° |
| Overall | **F** Length | ft-in (mm) | 27'3" (8,310) | 27'8" (8,430) | 27'6" (8,370) | 28'11" (8,820) |
| | **G** Height (up to cab top) | ft-in (mm) | 11' (3,375) | 11' (3,375) | 11' (3,375) | 11' (3,375) |
| | **H** Height (bucket fully raised) | ft-in (mm) | 17'10" (5,440) | 17'10" (5,440) | 18'1" (5,510) | 19'2" (5,850) |
| | **I** Width (outside tire) | ft-in (mm) | 9'2" (2,785) | 9'2" (2,785) | 9'2" (2,785) | 9'2" (2,785) |
| | **J** Width (outside bucket) | ft-in (mm) | 9'7" (2,910) | 9'7" (2,910) | 9'7" (2,910) | 9'7" (2,910) |
| **K** Tread | | ft-in (mm) | 7'1" (2,160) | 7'1" (2,160) | 7'1" (2,160) | 7'1" (2,160) |
| **L** Wheel base | | ft-in (mm) | 10'10" (3,300) | 10'10" (3,300) | 10'10" (3,300) | 10'10" (3,300) |
| Clearance Circle (bucket carry position) | **M** at outside of bucket | ft-in (mm) | 22'10" (6,960) | 22'11" (6,990) | 22'11" (6,980) | 23'6" (7,160) |
| | at outside of tire | ft-in (mm) | 20'9" (6,325) | 20'9" (6,325) | 20'9" (6,325) | 20'9" (6,325) |
| **N** Minimum ground clearance | | ft-in (mm) | 1'6" (450) | 1'6" (450) | 1'6" (450) | 1'6" (450) |
| **O** Full articulation angle | | degree | 37° | 37° | 37° | 37° |
| Operating weight (with ROPS cab) | | lb (kg) | 38,912 (17,650) | 38,978 (17,680) | 39,088 (17,730) | 39,352 (17,850) |
| Static tipping load (with ROPS cab) | Straight | lb (kg) | 32,849 (14,900) | 32,739 (14,850) | 32,584 (14,780) | 26,191 (11,880) |
| | Full turn | lb (kg) | 29,101 (13,200) | 29,013 (13,160) | 28,858 (13,090) | 23,082 (10,470) |

Note: All dimensions, weight and performance data based on ISO 6746-1:1987,ISO 7131:2009 and ISO 7546:1983
* Static tipping load and operating weight marked with* include 23.5-25-20PR ( L3) tires (No ballast) with lubricants, full fuel tank and operator.
Machine stability and operating weight depend on counterweight, tire size and other attachments.

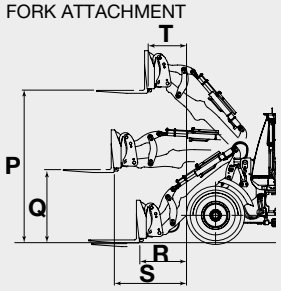
## DIMENSIONS




Equipped with 23.5-25-20PR (L3) tubeless tire and ROPS cab.

## ZW220-6

WITH FORK ATTACHMENT



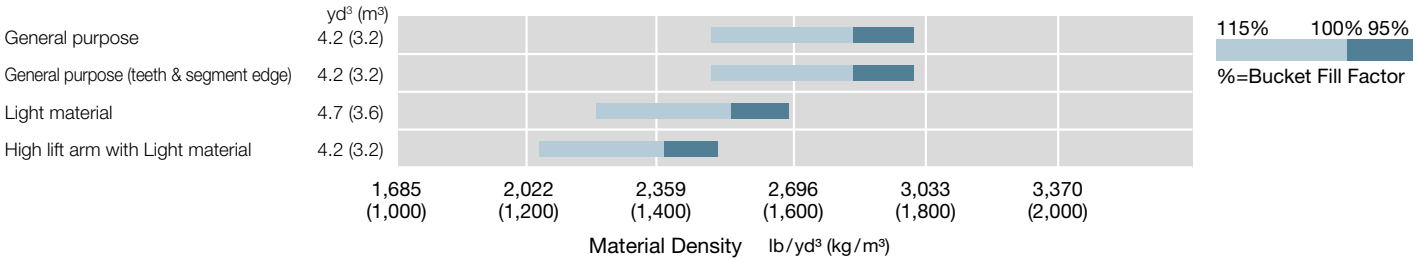

| | | | ISO (72) | 418 (72) |
|---|---|---|---|---|
| **P** | Max. stacking height | ft | 12'10" | 12'11" |
| **Q** | Height of fork at maximum reach | ft | 6'2" | 6'3" |
| **R** | Reach at ground level | ft | 4'4" | 4' |
| **S** | Max. reach | ft | 6'2" | 5'11" |
| **T** | Reach at max. stacking height | ft | 3'6" | 3'5" |
| Tipping load | Straight | lbf | 17,405 | 16,886 |
| | Full turn | lbf | 15,418 | 14,958 |
| Max. payload per EN 474-3, 80% | | lb | 12,335 | 11,966 |
| Max. payload per EN 474-3, 60% | | lb | 9,251 | 8,975 |
| SAE allowable load | | lb | 7,709 | 7,479 |
| Operating weight * | | lb | 39,580 | 40,052 |

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997, ISO 7546:1983 and ISO 8313:1989
* Static tipping load and operating weight marked with* include 23.5-25-20PR (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## WEIGHTS AND DIMENSIONS

| | | Operating Weight | Tipping Load | | | Overall Width (Outside Tire) | Overall Height | Overall Length |
|---|---|---|---|---|---|---|---|---|
| | | | Straight | Full Turn | | | | |
| Remove ROPS cab (for transport only) | lb (kg) | -1,320 (-600) | -1,010 (-460) | -900 (-410) | in (mm) | | -5 1/2 (-140) | |
| Install Refuse Counterweight | lb (kg) | -550 (-250) | -1,480 (-670) | -1,300 (-590) | in (mm) | | | |
| Belly guard (transmission) | lb (kg) | +200 (+90) | +175 (+80) | +155 (+70) | in (mm) | | | |
| Tires: 23.5R25 (L-3) | lb (kg) | +200 (+90) | +150 (+70) | +130 (+60) | in (mm) | | | |
| Belly guard (front & rear frame) | lb (kg) | +170 (+370) | +120 (+260) | +110 (+240) | in (mm) | | | |
| Emergency steering (Secondary steering) | lb (kg) | +70 (+30) | +0 (+0) | +0 (+0) | in (mm) | | | |
| Full covered rear fender | lb (kg) | +90 (+40) | +0 (+0) | +0 (+0) | in (mm) | | | |
| Bracket for rotating beacon | lb (kg) | +20 (+10) | +0 (+0) | +0 (+0) | in (mm) | | | |

## BUCKET SELECTION CHART




Specs highlighted in orange denote Canada only.

# EQUIPMENT DATA

## STANDARD EQUIPMENT

### ENGINE

- Air cleaner, double element
- Auto idle shut down
- Cold start (intake air heater)
- Cooling fan, automatic reversible, swing-out type
- Cummins QSB6.7 diesel engine
- EGR (exhaust gas recirculation)
- Engine block heater 120V
- Fuel filter (Main)
- Fuel pre-filter, w/water separator
- Pre-Cleaner (SyKlone)
- SCR (selective catalytic reduction) catalyst and DOC (diesel oxidation catalyst)
- VGT (variable geometry turbocharger)
- Work mode selector

### POWERTRAIN

- Brakes, service
  - Enclosed wet disc
  - Dual system
  - Inboard mounted
- Brake, parking
  - Spring applied
  - Oil pressure released
  - Dry disc type
- Differential, limited slip type (F/R)
- Down-shift switch
- Drive shafts, low maintenance
- F-R direction selector (2-column mounted/ console mounted)
- 1st speed hold switch on side console
- Quick Power switch
- Transmission, automatic w/load sensing system.
- Transmission declutch (3-position L/H/Off)
- Transmission mode selection (3-position AUTO1/MAN/ AUTO2)
- Universal joints, sealed

### HYDRAULIC SYSTEM

- Auxiliary (optional, lever)
- Boom kick-out, dual (operator adjustable in cab)
- Bucket positioner (horizontal)
- Control lever, single, pilot-assisted (US market only, opt in CA market)
- Control lever lock (electric)
- Control valve, 4-spool
  - Lift arm
  - Bucket
  - QC control (switch)
- Pump, variable displacement, load-sensing
- Ride control w/load sensing valve and automatic shut-off
- Quick coupler control lines and controls
- Steering, pilot
- System; open-center, high-pressure, load-sensing
- Valve, anti-drift

### ELECTRICAL

- 24-volt electrical system
- Alternator, (65 amp)
- Back-up alarm
- Batteries (2), 12V, 1,000 CCA
- Battery disconnect switch
- Converter, 12V/15 Amp
- Horn, dual electric
- Instrument panel, LCD, color
- Lights:
  - 2 Headlights (halogen)
  - 4 Forward working lights (LED)
  - 4 Rear working lights (LED)
  - 2 Stop/tail/backup (LED)
- Turn signal w/4-way flashers/marker

### CAB

- ROPS cab: enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.
- Accessory outlet, 12v
- Adjustable armrest/console
- Air conditioner/heater/pressurizer
- AM/FM/WB radio with AUX input and Bluetooth
- Ashtray
- Cab dome lamps (2)
- Cigarette lighter, 24V
- Coat hook
- Cup holder (2)
- Floormat, sweep-out
- Prepped for Loadrite Scale
- Retractable seat belt (3-inch)
- ROPS/FOPS certified, ISO 3449 Level II compliance
- Seat, premium, heated w/ TLV suspension
- Steering column, telescoping and tilting w/quick-release pedal
- Steering wheel
- Storage box (heated/cooled)
- Storage tray
- Sun visor

### OTHERS

- Articulation locking bar
- Counterweight
- Drawbar
- Engine block heater
- Fire extinguisher, 5lb., 2A:10B:C rated (w/mounting) (US market only)
- Global e-service, telematic monitoring system
- Ladders, inclined
- Lifting eyes
- Linkage pins, HN bushing
- Neutral safety start
- Rear grill, hinged
- Steps, rear
- Vandalism protection
- Z-bar loader linkage

### ALARMS, GAUGES, INDICATORS

| | |
|---|---|
| Alarms (visual & audible) | Aftertreatment device |
| | Air cleaner element |
| | Axle oil temperature |
| | Battery discharge warning |
| | Brake oil low pressure |
| | CAN network system |
| | DEF/AdBlue tank level/quality/system |
| | Engine coolant temp |
| | Engine oil low pressure |
| | Engine trouble |
| | Engine warning |
| | Fuel filter (water in fuel) |
| | Hydraulic oil level |
| | Hydraulic oil temperature |
| | Main pump oil pressure |
| | Transmission oil temp |
| | Transmission warning |
| Gauges | DEF/AdBlue tank level |
| | Engine coolant temperature |
| | Fuel gauge |
| | Speedometer |
| | Tachometer |
| | Transmission oil temperature |
| Indicators | Aftertreatment device |
| | Air conditioner display |
| | Auto idle shutdown |
| | Boom kick-out, dual |
| | Cold start |
| | Control lever lock |
| | Declutch |
| | ECO-Operating Status |
| | Engine warning |
| | Fan reverse rotation |
| | F-N-R Selection |
| | F-N-R Switch enable |
| | High beam |
| | Parking brake |
| | Shift hold |
| | Time/Operating hour/ODO |
| | Transmission mode and status |
| | Turn signal w/4-way flashers/Marker |
| | Work light |
| | Work mode (Normal, Power) |

## OPTIONAL EQUIPMENT

- Belly Guard, rear chassis
- Belly guard, front chassis, transmission (rear)
- Cooling system cores, wide fin
- Counterweight, (solid tire & logging applications)
- Dual lever hydraulic control (US market only)
- E-Stick steering
- Emergency steering system
- Front and full covered rear fenders with mud flaps (23.5 Tire) (opt in US market)
- Heated rear view mirror
- High lift arm
- Mount bracket, wiring harness and switch for rotating lamp (without beacon) (Canada Only)
- Quick coupler & attachments
- Rear view camera mount (high mount separated type)

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.

# SPECIFICATIONS



**Model Name: ZW250-6, EPA Tier 4 Final/EU Stage IV Certified**

## ENGINE

| | |
|---|---|
| Gross power (ISO 14396) | 253 HP/2,000 RPM<br>(186 kW/2,000 RPM) |
| Net power (ISO 9249) | 246 HP/2,000 RPM<br>(181 kW/2,000 RPM) |
| Make/Model | Cummins QSB6.7 diesel engine |
| Type | 4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler |
| Fuel type | #2 Diesel (Requires ultra-low sulfur fuel.) |
| Fuel injection pump | Electronically controlled, common rail type |
| Governor | All speed electrical type |
| Cooling module type | Forced circulation type |
| Number of cylinders | 6 |
| Bore and stroke | 4.21" x 4.88" (107mm x 124mm) |
| Total displacement | 408 $in^3$ (6.69 liters) |
| Alternator | AC 24V– 65A (15.6 kW) |
| Air cleaner | Dry type (double element) with restriction indicator |
| Starter motor | DC 24V–10.5 HP (7.8 kW) |
| Battery | 12V–765 CCA (160Ah), 2 units |

## TORQUE CONVERTER AND TRANSMISSION

| | | | | | |
|---|---|---|---|---|---|
| Torque converter | | 3-element, single-stage, 2-phase w/lock-up clutch | | | |
| Transmission | | Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included | | | |
| | | Normal Mode | Power Mode | Normal Mode w/Lock-up clutch | Power Mode w/Lock-up clutch |
| Speeds: Forward | 1st: | 3.6 MPH (5.8 km/hr) | 3.6 MPH (5.8 km/hr) | 3.6 MPH (5.8 km/hr) | 3.6 MPH (5.8 km/hr) |
| | 2nd: | 6.3 MPH (10.1 km/hr) | 6.5 MPH (10.4 km/hr) | 6.5 MPH (10.5 km/hr) | 6.7 MPH (10.8 km/hr) |
| | 3rd: | 9.0 MPH (14.5 km/hr) | 9.6 MPH (15.5 km/hr) | 9.6 MPH (15.5 km/hr) | 10.1 MPH (16.3 km/hr) |
| | 4th: | 13.6 MPH (21.9 km/hr) | 15.3 MPH (24.6 km/hr) | 15.1 MPH (24.3 km/hr) | 15.8 MPH (25.4 km/hr) |
| | 5th: | 21.7 MPH (35.0 km/hr) | 21.7 MPH (35.0 km/hr) | 24.5 MPH (39.5 km/hr) | 24.5 MPH (39.5 km/hr) |
| Speeds: Reverse | 1st: | 3.8 MPH (6.1 km/hr) | 3.8 MPH (6.1 km/hr) | 4.0 MPH (6.5 km/hr) | 4.1 MPH (6.6 km/hr) |
| | 2nd: | 6.6 MPH (10.6 km/hr) | 7.1 MPH (11.4 km/hr) | 6.6 MPH (10.7 km/hr) | 7.3 MPH (11.8 km/hr) |

## SYSTEMS REFILL CAPACITY

| LOCATION | GALLONS | LITERS |
|---|---|---|
| Fuel tank (diesel fuel) | 89.9 | 340 |
| Engine lubricant (including oil pan) | 6.6 | 25 |
| Engine coolant | 10.3 | 39 |
| T/M & T/C | 7.1 | 27 |
| Axle (front/rear) | 11.4/11.4 | 43/43 |
| Hydraulic oil tank | 30.4 | 115 |
| Hydraulic system (including hydraulic tank) | 47.6 | 180 |
| DEF/AdBlue® tank | 9.2 | 35 |

## HYDRAULIC AND STEERING SYSTEM

| | | |
|---|---|---|
| Steering type | | Articulated frame steering |
| Steering mechanism | | Hydraulic power steering unit, double-acting piston type |
| Lift (boom) cylinder | | Two (2) double-acting piston type:<br>5.1" x 37.0" (130mm x 940mm) |
| Tilt (bucket) cylinder | | Two (2) double-acting piston type:<br>6.5" x 20.9" (165mm x 530mm) |
| Steering cylinder | | Two (2) double-acting piston type:<br>2.8" x 21.3" (70mm x 542mm) |
| Main/Steering oil pump | | Variable displacement axial plunger pump:<br>72.6 GPM/4,264 PSI @ 2,200 RPM<br>(275 LPM/29.4 MPa @ 2,200 RPM) |
| Brake & Pilot oil pump | | Fixed displacement gear pump:<br>9.3 GPM/2,245 PSI @ 2,200 RPM<br>(35.1 LPM/15.5 MPa @ 2,200 RPM) |
| Fan oil pump | | Fixed displacement gear pump:<br>16.5 GPM/2,495 PSI @ 2,200 RPM<br>(62.5 LPM/17.2 MPa @ 2,200 RPM) |
| Relief valve set pressure | Control | 4,264 psi, 29.4 MPa (300 $kgf/cm^2$) |
| | Steering | 4,264 psi, 29.4 MPa (300 $kgf/cm^2$) |

HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system

| | Normal Mode | Power Mode |
|---|---|---|
| Lifting time (at full load) | 6.4 sec. | 5.7 sec. |
| Lowering time (empty) | 3.6 sec. | 3.6 sec. |
| Bucket dumping time | 1.9 sec. | 1.8 sec. |
| TOTAL | 11.9 sec. | 11.1 sec. |

* Measured in accordance with SAE J732C

## AXLE SYSTEM

| | |
|---|---|
| Drive system | 4-wheel drive |
| Front and rear axle | Semi-floating type |
| Tires | 23.5 R25 (L-3) |
| Reduction and differential gear | Two-stage reduction with limited slip differential |
| Final reduction gear | Inboard mounted, heavy duty planetary gear |
| Oscillation angle | Total 20° (+10 / –10)° |

## BRAKE SYSTEM

| | |
|---|---|
| Service brakes | Inboard mounted fully hydraulic 4-wheel disc brake. Front and rear independent brake circuit. |
| Parking/Emergency brake | Spring-applied, hydraulically-released. Located in transmission. |

### Remarks

- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
- Counterweight should not be used with tire ballast.
- This specification sheet may contain attachments and optional equipment not available in your area.

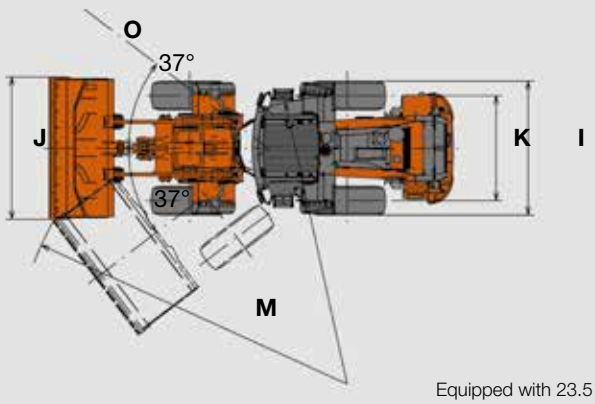
Please contact your local HCMA dealer for additional information.

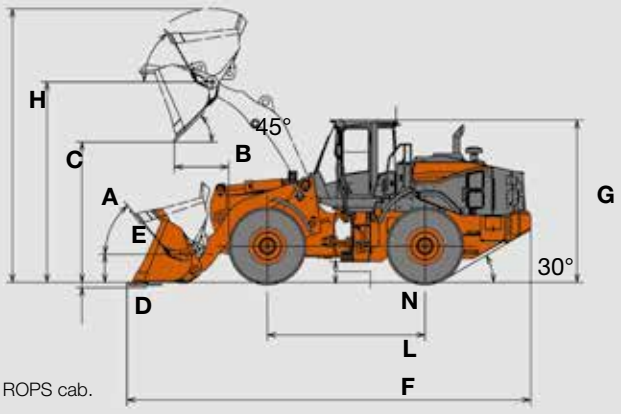
## BUCKET DATA

| | | | Standard Arm | | | | | High Lift Arm |
|---|---|---|---|---|---|---|---|---|
| | | | General Purpose | | | Light Material | Rock Bucket | Light Material |
| | | | Bolt-on Cutting Edge | Bolt-on Cutting Edge | Belt-on Teeth/ Segment Edge | Bolt-on Cutting Edge | Bolt-on Teeth | Bolt-on Cutting Edge |
| Capacity | Heaped | yd³ (m³) | 4.6 (3.5) | 4.8 (3.7) | 4.8 (3.7) | 5.2 (4.0) | 3.8 (2.9) | 4.8 (3.7) |
| | Struck | yd³ (m³) | 4.0 (3.1) | 4.3 (3.3) | 4.3 (3.3) | 4.6 (3.5) | 3.3 (2.5) | 4.3 (3.3) |
| **A** Maximum dumping clearance | | ft-in (mm) | 9'10" (2,975) | 9'11" (3,000) | 9'6" (2,890) | 9'9" (2,960) | 9'6" (2,895) | 11'4" (3,450) |
| **B** Dumping reach (to front of bucket edge or tooth) | | ft-in (mm) | 3'7" (1,100) | 3'5" (1,040) | 3'9" (1,150) | 3'7" (1,080) | 3'11" (1,190) | 3'7" (1,080) |
| **C** Max. hinge pin height | | ft-in (mm) | 13'9" (4,190) | 13'11" (4,250) | 13'11" (4,250) | 13'11" (4,250) | 13'9" (4,190) | 15'5" (4,710) |
| **D** Digging depth (with bucket level) | | in (mm) | 4'4" (110) | 3" (80) | 3" (80) | 3" (80) | 4'9" (120) | 4" (100) |
| Breakout force | | lb (kN) | 35,330 (157) | 37,090 (165) | 37,770 (168) | 35,520 (158) | 39,380 (175) | 34,170 (152) |
| Bucket tilt-back angle | at ground level | degree | 43° | 43° | 43° | 43° | 43° | 44° |
| | **E** at carry position | degree | 50° | 50° | 50° | 50° | 50° | 50° |
| Overall | **F** Length | ft-in (mm) | 27'9" (8,460) | 27'9" (8,460) | 28'3" (8,610) | 27'11" (8,510) | 28'3" (8,600) | 29'3" (8,920) |
| | **G** Height (up to cab top) | ft-in (mm) | 11'4" (3,440) | 11'4" (3,460) | 11'4" (3,460) | 11'4" (3,460) | 11'4" (3,440) | 11'4" (3,460) |
| | **H** Height (bucket fully raised) | ft-in (mm) | 18'7" (5,680) | 18'8" (5,680) | 18'8" (5,680) | 18'10" (5,730) | 18'1" (5,520) | 20'2" (6,140) |
| | **I** Width (outside tire) | ft-in (mm) | 9'5" (2,870) | 9'5" (2,870) | 9'5" (2,870) | 9'5" (2,870) | 9'5" (2,870) | 9'9" (2,980) |
| | **J** Width (outside bucket) | ft-in (mm) | 9'10" (2,980) | 9'10" (2,980) | 9'10" (2,980) | 9'10" (2,980) | 9'10" (2,980) | 10'2" (3,100) |
| **K** Tread | | ft-in (mm) | 7' (2,200) | 7'5" (2,260) | 7'5" (2,260) | 7'5" (2,260) | 7' (2,200) | 7'5" (2,260) |
| **L** Wheel base | | ft-in (mm) | 10'10" (3,310) | 10'10" (3,310) | 10'10" (3,310) | 10'10" (3,310) | 10'10" (3,310) | 10'10" (3,310) |
| Clearance Circle (bucket carry position) | **M** at outside of bucket | ft-in (mm) | 19'10" (6,050) | 19'11" (6,080) | 19'11" (6,080) | 19'11" (6,080) | 19'10" (6,050) | 19'11" (6,080) |
| | at outside of tire | ft-in (mm) | 23'1" (7,050) | 23'5" (7,140) | 23'6" (7,160) | 23'6" (7,150) | 23'3" (7,060) | 24' (7,320) |
| **N** Minimum ground clearance | | ft-in (mm) | 1'5" (420) | 1'7" (480) | 1'7" (480) | 1'7" (480) | 1'5" (420) | 1'7" (480) |
| **O** Full articulation angle | | degree | 37° | 37° | 37° | 37° | 37° | 37° |
| Operating weight (with ROPS cab)* | | lb (kg) | 45,580 (20,670) | 46,050 (20,890) | 46,120 (20,920) | 46,340 (21,020) | 46,020 (20,870) | 46,620 (21,150) |
| Static tipping load (with ROPS cab)* | Straight | lb (kg) | 36,470 (16,540) | 35,860 (16,270) | 35,800 (16,240) | 35,110 (15,930) | 36,250 (16,440) | 29,010 (13,160) |
| | Full turn | lb (kg) | 32,130 (14,570) | 31,590 (14,330) | 31,520 (14,300) | 30,930 (14,030) | 31,950 (14,490) | 25,570 (11,600) |

Note: All dimensions, weight and performance data based on ISO 6746-1:1987,ISO 7131:2009 and ISO 7546:1983
* Static tipping load and operating weight marked with* include 23.5 R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.
Machine stability and operating weight depend on counterweight, tire size and other attachments.

## DIMENSIONS



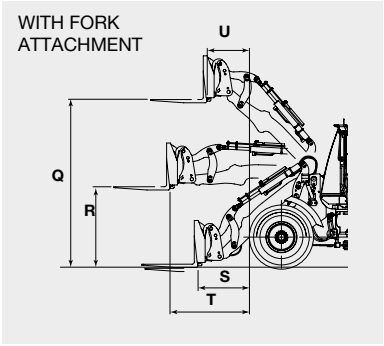




Equipped with 23.5 R25 (L-3) tire and ROPS cab.

# SPECIFICATIONS

## ZW250 FORK SPECIFICATIONS

WITH FORK ATTACHMENT



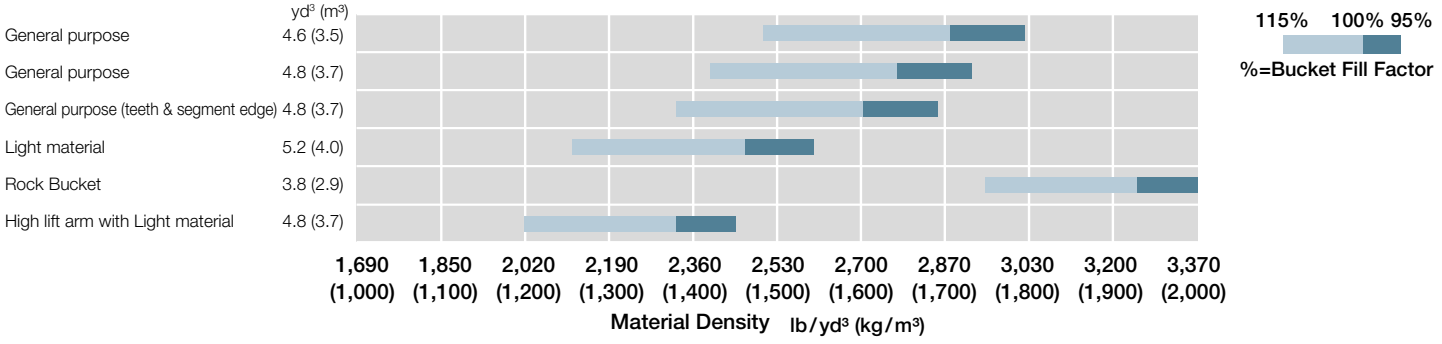

| Attachment Type | | | ISO (72") | 416 (72") |
|---|---|---|---|---|
| **Q** Max. stacking height | | ft | 13'1" | 13'2" |
| **R** Height of fork at maximum reach | | ft | 5'11" | 6'1" |
| **S** Reach at ground level | | ft | 4'8" | 4'4" |
| **T** Max. reach | | ft | 6'4" | 6'1" |
| **U** Reach at max. stacking height | | ft | 3'6" | 3'2" |
| Tipping load | Straight | lbf | 19,222 | 19,018 |
| | Full turn | lbf | 16,932 | 16,751 |
| Max. payload per EN 474-3, 80% | | lb | 13,545 | 13,401 |
| Max. payload per EN 474-3, 60% | | lb | 10,159 | 10,051 |
| SAE allowable load | | ft | 8,466 | 8,376 |
| Operating weight * | | lb | 47,181 | 47,533 |

Note: All dimensions, weight and perfomance data based on ISO 6746-1:1987, ISO 7137:1997, ISO 7546:1983 and ISO 8313:1989
* Static tipping load and operating weight marked with* include 26.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.
Machine stability and operating weight depend on counterweight, tire size and other attachments.

## WEIGHTS AND DIMENSIONS

| | | | Operating Weight | Tipping Load | | | Overall Width (Outside Tire) | Overall Height | Overall Length |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Straight | Full Turn | | | | |
| Belly guard | | lb (kg) | +410 (+190) | +300 (+140) | +260 (+120) | in (mm) | | | |
| Tires: | 26.5R25(L3) | lb (kg) | +1,230 (+560) | +920 (+420) | +810 (+370) | in (mm) | +3.3 (+85) | +2.4 (+60) | +2.0 (+50) |
| | 26.5R25(L4) | lb (kg) | +880 (+400) | +660 (+300) | +570 (+260) | in (mm) | +0.6 (+15) | +1.2 (+30) | -1.0 (-25) |
| Optional counterweight | | lb (kg) | +0 (+0) | +0 (+0) | +0 (+0) | in (mm) | | | |
| Belly guard (rear frame) | | lb (kg) | +0 (+0) | +0 (+0) | +0 (+0) | in (mm) | | | |

## BUCKET SELECTION CHART




Specs highlighted in orange denote Canada only.

# EQUIPMENT DATA

## STANDARD EQUIPMENT

### ENGINE

- Air cleaner, double element
- Auto idle shut down
- Cold start (intake air heater)
- Cooling fan, automatic reversible, swing-out type
- Cummins QSB6.7 diesel engine
- EGR System
- Engine block heater 120V
- Fuel filter (Main)
- Fuel pre-filter, w/water separator
- Pre-cleaner (SyKlone)
- SCR (selective catalytic reduction) catalyst and DOC (diesel oxidation catalyst)
- VGT (variable geometry turbocharger)
- Work mode selector

### POWERTRAIN

- Brakes, service
  - Enclosed wet disc
  - Dual system
  - Inboard mounted
- Brake, parking
  - Spring applied
  - Oil pressure released
  - Dry disc type
- Differential, limited slip type (F/R)
- Down-shift switch
- Drive shafts, low maintenance
- Lock-up Torque Converter
- F-R direction selector (2-column mounted/ console mounted)
- 1st speed hold switch on side console
- Quick Power switch
- Transmission, automatic w/load sensing system.
- Transmission declutch (3-position L/H/Off)
- Transmission mode selection (3-position AUTO1/MAN/ AUTO2)
- Universal joints, sealed

### HYDRAULIC SYSTEM

- 3 spool valve
- Boom kick-out, dual (operator adjustable in cab)
- Bucket positioner (horizontal)
- Control lever, dual, pilot-assisted
- Control lever lock (electric)
- Control valve, 2-spool, parallel and tandem control
- Pump, variable displacement, load-sensing
- Ride control w/load sensing valve and automatic shut-off
- Steering, pilot
- System; open-center, high-pressure, load-sensing
- Valve, anti-drift

### ELECTRICAL

- 24-volt electrical system
- Alternator (65 AMP)
- Back-up alarm
- Batteries (2), 12V, 930 CCA
- Battery disconnect switch
- Converter, 12V/15 Amp
- Horn, dual electric
- Instrument panel, LCD, color
- Lights:
  - 2 Headlights (halogen)
  - 4 Forward working lights (LED)
  - 4 Rear working lights (LED)
  - 2 Stop/tail/backup (LED)
- Turn signal w/4-way flashers/marker

### CAB

- ROPS cab: enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.
- Accessory outlet, 12v
- Adjustable armrest/console
- Air conditioner/heater/pressurizer
- AM/FM/WB radio with AUX input and Bluetooth
- Ashtray
- Cab dome lamps (2)
- Cigarette lighter, 24V
- Coat hook
- Cup holder (2)
- Floormat, sweep-out
- Retractable seat belt (3-inch)
- ROPS/FOPS, ISO 3449 Level II compliant
- Seat, deluxe heated w/TLV suspension
- Steering column, telescoping and tilting w/quick-release pedal
- Steering wheel
- Storage box (heated/cooled)
- Storage tray
- Sun visor

### OTHERS

- Articulation locking bar
- Counterweight
- Drawbar
- Fire extinguisher, 5lb., 2A:10B:C rated (w/mounting) (US market only)
- Global e-service, telematic monitoring system
- Ladders, inclined
- Lifting eyes
- Linkage pins, HN bushing
- Neutral safety start
- Rear grill, hinged
- Steps, rear
- Vandalism protection
- Z-bar loader linkage

### ALARMS, GAUGES, INDICATORS

| | |
|---|---|
| Alarms (visual & audible) | Aftertreatment device |
| | Air cleaner element |
| | Axle oil temperature |
| | Battery discharge warning |
| | Brake oil low pressure |
| | CAN network system |
| | DEF/AdBlue tank level/quality/system |
| | Engine coolant temp |
| | Engine oil low pressure |
| | Engine overrun |
| | Engine trouble |
| | Engine warning |
| | Fuel filter (water in fuel) |
| | Hydraulic oil level |
| | Hydraulic oil temperature |
| | Main pump oil pressure |
| | Transmission oil temp Transmission warning |
| Gauges | DEF/AdBlue tank level |
| | Engine coolant temperature |
| | Fuel gauge |
| | Speedometer |
| | Tachometer |
| | Transmission oil temperature |
| Indicators | Aftertreatment device |
| | Air conditioner display |
| | Auto idle shutdown |
| | Boom kick-out, dual |
| | Cold start |
| | Control lever lock |
| | Declutch |
| | ECO-Operating Status |
| | Fan reverse rotation |
| | F-N-R Selection |
| | F-N-R Switch enable |
| | High beam |
| | Parking brake |
| | Shift hold |
| | Time/Operating hour/ODO |
| | Transmission mode and status |
| | Turn signal w/4-way flashers/Marker |
| | Work light |
| | Work mode (Normal, Power) |

## OPTIONAL EQUIPMENT

- Belly Guard, rear chassis
- Belly guard, front chassis, transmission (rear)
- Bolt-on cutting edge & segments
- Bucket teeth
- Cooling system cores, wide fin
- E-Stick steering
- Emergency steering system
- Front and full covered rear fenders with mud flaps (23.5 Tire)
- Front and half covered rear fenders with mud flaps (23.5 Tire)
- Heated rear view mirror
- High lift arm
- Mount bracket, wiring harness and switch for rotating lamp (without beacon) (Canada Only)
- Quick coupler & attachments
- Rear view camera mount (high mount separated type)
- Single lever hydraulic control

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.

HITACHI

## Reliable solutions


REPUTATIONS ARE **BUILT** ON IT.

With manufacturing facilities in Banshu, Ryugasaki, Tierra, and Hitachinaka, Japan, and the U.S. corporate office and campus in Newnan, Georgia, Hitachi Construction Machinery Americas Inc. (HCMA) has the experience and technology to design, engineer, manufacture, and service your Hitachi construction machinery. The HCMA team is securely poised as your go-to source in the North American and Latin American construction machinery market.

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Your HCMA dealer has the resources, expertise and personnel to work with you to ensure that you receive the most benefit from your Hitachi investment utilizing carefully designed programs and services in conjunction with extensive digital resources. HCMA provides a totally focused approach to supporting you, your business, and your Hitachi construction machinery.



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