ZW series

WHEEL LOADER

- **Model Code:** ZW180
- **Operating Weight:** 14,220–14,710 kg
- **Bucket Capacity:** ISO Heaped: 2.2–3.3 m³
- **Max. Engine Output:** 128 kW (171 HP)
Introducing the New-Generation Wheel Loaders:

ZW Series

Top-Class Production with Amazing Mobility

The new ZW Series wheel loaders are packed with numerous innovative technologies and mechanisms. Total control of engine and pump torque is an industry’s first. Three work modes and three driving modes help enhance operating ease and yield high production. What’s more, lots of advanced designs give power and speed for loading and travel.

The ZW Series will set a new standard of productive, easy-to-operate wheel loaders.

Productivity
- Three work modes to increase production and decrease fuel consumption
- Three driving modes and load-sensing Auto-DSS
- High-torque engine and capacious torque converter
- Torque proportioning differential
- Limited slip differential (Optional)
- Smoother simultaneous operations with advanced hydraulic circuit
- Selectable clutch cutoff Timing
- Lift arm auto leveler (Optional)
- Ride control system (Optional)

Panoramic comfortable cab
- Bi-level auto air conditioner and pressurized cab
- Front & rear defrosters
- Low noise design
- Panoramic cab
- Enhanced upward visibility
- Good rear visibility
- Ergonomically positioned switches and controls
- Down-Shift Switch (DSS) and Up-Shift Switch (USS)
- Multi-functional joystick lever (Optional)
- Comfort-designed suspension seat

Easy Maintenance
- Extended hydraulic oil replacement intervals
- Easy draining
- Conveniently located filters
- Easy-to-replace air conditioning filters
- Currently located Fuel supply port
- Easy-to-read monitor
- Flat cab floor
- Hinged radiator cover
- Dirt-Resistant (DR) front frame

Safety
- Full fan guard
- Emergency steering system
- Mis-operation protection
- ROPS / FOPS cab
- Highly reliable dual-line brake system
- Other safety features

Environment
- Common rail fuel injection system
- Hitachi Silent (HS) fan
- Low noise engine
- A recyclable machine

Specifications
- The new engine complies with the Emission Regulations U.S EPA Tier 3 and EU Stage III A
- The advanced low noise design complies with the coming EU noise regulation 2000 / 14 / EC, STAGE II
Packed with Numerous Technological Advances for Amazing Mobility and Big Production

The new ZW Series is packed with lots of technological advances: the TT* system, newly developed hydraulic system and transmission, well-matching of operations, impressive mobility and big production with less fuel consumption, and much more.

*Total Torque-control

Three Work Modes to Increase Production and Decrease Fuel Consumption

Three work modes are selectable according to job needs and operator’s preference. In each work mode, TT* system controls the total torque of the engine and pump for well matched penetration force and implement speed according to job needs. The three work modes can be optimally selected to suit materials to be handled for higher production.

Three Driving Modes and Load-Sensing Auto-DSS*

The three driving modes can be selected according to job needs.

Energy-Saving Driving L Mode:
Starts with the second gear, and makes gear shift at first timing. With the accelerator pedal depressed midway, allows auto upshift and increases travel speed at low engine speed for higher fuel efficiency. This driving L mode is suitable for haulage and long-distance travel to boost fuel efficiency. What’s more, the Auto-DSS can make auto downshift to the first gear according to loading conditions. There is no need for conventional downshift to the first gear by the downshift switch or the manual mode, reducing operator’s burden and increasing loading efficiency.

High-Torque Engine and Capacious Torque Converter
Rated output: 128 kW (171 HP)
Max. torque: 763 Nm (78 kgf m)

The new engine yields big torque at a low speed in direct response to acceleration without need for full throttle. The capacious torque converter enables powerful travel under heavy load, such as climbing steep or long hills without losing speed.

Torque Proportional Differential (Standard)
The torque proportional differential adjusts driving forces to both wheels. When road resistances under both wheels are different, this feature prevents slippage of a wheel on softer ground, unlike conventional differentials. This feature enables the ZW series to get out of swamps or rough terrain easily.

Limited Slip Differential (Optional)
On snowy roads and rough terrain, the limited slip differential can work instead of the torque proportional differential. This delivers effective driving force to both wheels for enhanced grip and less slippage during travel.

Energy-Saving Driving L Mode
Starts with the second gear, and makes gear shift at slow timing. Suitable for ordinary V-shaped load-and-carry operation that does not need extra traction force.

Driving H mode:
Makes gear shift at timing similar to the driving N mode, but the Auto-DSS automatically shifts down to the first gear according to loading conditions. Suitable for production-first jobs.

Three Work Modes

- **H mode:** Heavy-duty excavation
- **N mode:** Loading
- **L mode:** Light-duty operation

Torque Proportional Differential (Standard)

Limited Slip Differential (Optional)
An Array of Elaborate Mechanisms for Impressive Mobility and Big Production

Improved Rise / Run Performance

Arm rising while traveling for improved rise / run performance. On the new ZW Series, 10% higher rise/run performance can be expected, boosting loading efficiency and increasing productivity.

Smoother Simultaneous Operations with Advanced Hydraulic Circuit

With the new parallel/tandem circuits, the lift arm and bucket can be operated at the same time, unlike conventional machines. This can remarkably increase digging and loading efficiency for higher production.

Selectable Clutch Cutoff Timing

Clutch cutoff timing can be selected from three positions to suit various job conditions, including rapid operation on level ground, and surefooted operation on gradient.

S mode:
The clutch is cutoff at fast timing by depressing the pedal fully for dumping into a hopper on slope.

N mode:
The clutch is cutoff by depressing the pedal midway for surefooted loading on slope.

D mode:
The clutch is cutoff by depressing the pedal for speedy loading on level ground.

OFF:
The clutch is disabled.

Sophisticated Mechanisms for Higher Job Efficiency

Float System
The float system lets the lift arm follow up road irregularities by using its self-weight only, without using its hydraulic circuit. This system is useful in soil-split collecting during loading, and snow removing.

Bucket Auto Leveler
The bucket can automatically be leveled parallel to the ground after dumping the bucket. This can eliminate cumbersome bucket repositioning for efficient loading.

Lift Arm Kick-Out System
The lift arm can automatically be raised up to the preset level. This function is convenient when loading onto a dump truck, and when operating at confined job sites with restricted working height.

Lift Arm Auto Leveler (Optional)
The lift arm can automatically be raised and lowered to the preset level. By using the switches in the cab, high and low lift kickouts can be programmed.

Operator-Friendly Designs for Higher Job Efficiency

Restriction Valve
The restriction valve can effectively reduce shocks when moving the lift arm up and down. The bucket does not have a shockless circuit to allow efficient mud removal.

Ride Control System (Optional)
The ride control reduces pitching and bouncing during traveling on rough terrain and snow road by automatic control of the implement. Shocks and vibration can be well suppressed for riding comfort.
Operator-First Designs: Easy-to-Handle Controls for Operator Comfort

Panoramic Cab
The panoramic cab gives almost all-round visibility with the widened front glass window and pillar less cab rear corners. Front wheels are always in the operator’s vision, enhancing safety and increasing loading efficiency.

Enhanced Upward Visibility
The front curved glass window gives good upward visibility, so the operator can directly see the movement of the bucket for safer loading.

Good Rear Visibility
The engine cover is low profile, and rounded for better rear visibility, so the operator can directly see the rear wheels and counterweight.

Shock-Dampened Cab
The cab rests on fluid-filled elastic mount to absorb shocks and vibration, and reduce resonance.

Low Noise Design
The cab is well sealed, and the new low-noise engine is utilized to reduce sound, along with the following measures:

• Hydraulically operated cooling fan with heat-sensing system
• Hitachi’s Silent (HS) fan
• Sound-absorbing materials inside engine cover and cab
• Clever arrangement of hydraulic oil tank and bulkhead

Multi-Functional Joystick Lever (Optional)
The multi-functional joystick lever is provided atop of the control lever for operating ease.

Adjustable Steering Column
The steering wheel is tiltable, and telescopic to suit operator of all builds for comfortable operation.

Hat (Resin Cab Roof)
The hollow hat is provided atop the cab to form an air space. This greatly helps reduce the temperature rise in the cab, and increases the cooling efficiency of the air conditioner.

Front / Rear Defrosters
With the front and rear defrosters, airflow comes out from three front air outlets and two rear outlets to protect respective windows from fogging, keeping clear vision even in rain and cold weather.

An Array of Standard Accessories

- Bi-Level Auto Air Conditioner and Pressurized Cab
- Ergonomically Positioned Switches and Controls
- Comfort-Designed Suspension Seat
- Hat (Resin Cab Roof)
- Front / Rear Defrosters
- Shock-Dampened Cab
- Low Noise Design
- Multi-Functional Joystick Lever (Optional)
- Adjustable Steering Column
- Operator-First Designs: Easy-to-Handle Controls for Operator Comfort
Enhanced Durability

Durability is enhanced with a number of advanced mechanisms for long, continuous operation.

**Dependable Drive System**

Transmission
The transmission can effectively reduce the transmitting load. This helps reduce sound and extend service life, enhancing reliability.

Robust Differential Gears
Differential gears are thickened to increase rigidity.

New-Type Engine
The new-type engine, using rugged cylinder block, reduces vibration and increases durability.

**Durable Axles**
Front and rear axles are improved for durability. The axle housing is thickened for tough operation at quarries.

**Improved Braking Ability**
The brake is a wet-type multi-plate brake, and housed in the axle.

**Variable Displacement Pumps**
New variable displacement pumps are exclusively developed and designed for Hitachi wheel loaders for tough earthmoving.

**Capacious Oil Cooler**
The ample cooling capacity of the hydraulic oil cooler helps reduce oil temperature fluctuation, and extend service life of components.

**Hydraulically Operated Cooling Fan with Heat-Sensing System**
Fan speed can be adjusted depending on fluid temperature to effectively cool down coolant, hydraulic oil, transmission oil and torque converter oil. The result is extended component service life and reduction in fuel consumption. The fan is also separate from the engine for easy servicing.

**Protected Fuel Tank**
The large counterweight is arranged to protect the fuel tank from collisions with obstacles during operation.

**Aluminum Radiator and Oil Cooler**
The radiator and oil cooler are made of aluminum instead of conventional steel or copper for corrosion prevention.

**LED Indicators and Instruments**
On the indicators, monitors and alarms, many LEDs are utilized for longer service life resulting in less failure, enhancing the reliability.

**O-Ring Seal (ORS) Joints and Water-Resistant Electric Connectors**
Numerous elaborate components are utilized for higher durability and reliability. The proven ORS joints and high-pressure hydraulic lines are utilized in the hydraulic system, and water-resistant wiring connectors in the electrical system.

**Robust Frame**
The box-section frame is thickened and strengthened to resist torsion and increase durability. Center pins are widely spaced for higher resistance to torsion.
Reduced Running Costs

Running and maintenance costs are reduced greatly with concentrated inspecting points and durable components.

Extended Hydraulic Oil Replacement Intervals (Up from 1 000 to 4 000 Hours)
Hitachi genuine hydraulic oil can quadruple hydraulic oil replacement intervals. A hydraulic oil drain hose is mounted standard.

Easy Draining
The engine oil drain port is located for the convenience of maintenance. No need for reaching under the machine.

Conveniently Located Filters
Fuel filter, fuel pre-filter with sedimentary function and engine oil filter are strategically located for the convenient daily inspection and servicing.

Easy-to-Replace Air Conditioning Filters
The fresh air filter can easily be replaced from the cab, and circulation air filter also replaced by detaching the drink holder.

HN Bushings
The HN bushing containing high-viscosity oil is provided at each joint to reduce grease consumption, extend lubrication intervals (100 to 500 hours), and increase durability.

Easy-to-Read Monitor
With the easy-to-read monitor, the operator can see instructions for scheduled servicing and maintenance.

Monitor Indication Items:
- Clock, service intervals, travel speed, mileage, hour meter

Replacement Alerting:
- Engine oil / filter, fuel filter, hydraulic oil / filter, transmission oil / filter

Flat Cab Floor
The cab floor is stepless (flat) for ease of cleaning.

Easy Draining
The engine oil drain port is located for the convenience of maintenance. No need for reaching under the machine.

Easy-to-Replace Air Conditioning Filters
The fresh air filter can easily be replaced from the cab, and circulation air filter also replaced by detaching the drink holder.

Reversible Hydraulically Operated Cooling Fan
The rotation of the hydraulically operated cooling fan with heat-sensing system can be reversed for easy removal of dirt from the radiator. The fan itself can swing open for easy cleaning.

Strategically Located Fuel Supply Port
The fuel supply port is located for convenient fuel supply from the ground.

Dirt-Less (DL) Front Frame
The DL front frame is shaped for easy removal of dirt, stones and snow.
Safety-First Design

Achieving a High-Level of Safety in the Working Environment with an Array of Advanced Mechanisms

Mis-Operation Protection:
- **Starting Engine:** The engine will start only when the Forward / Reverse lever is in neutral.
- **Starting:** The transmission is disabled when the parking switch is in the ON position, even if selecting Forward or Reverse.
- **Leaving from Operator Seat:** Control levers and Forward / Reverse lever are locked to prevent accidental operation.

Stopping Engine:
The spring-set/hydraulic-released parking brake is automatically applied even if failing to apply it.

Other Safety Features
- **Retractable Seat Belt:** The cooling fan is enclosed by a full guard (metal net) to protect service technicians from injury during servicing and maintenance.
- **Inclined Ladder:** The emergency electric pump delivers the necessary oil pressure for power steering even in the case of an emergency. This allows normal steering at all times even if the engine fails.

Highly Reliable Dual-Line Brake System
The dual-line hydraulic brake system is utilized: even if one line fails, the other can work for braking. The brake is an enclosed wet multi-plate type for reliable braking.

Environmentally Friendly Design

A Cleaner Machine

The 2W Series is equipped with a clean but powerful engine to comply with Tier 3 and Stage III A. An engine emission regulations effective in the U.S. EPA and European Union from 2006. Exhaust gas is partly re-combusted to reduce particulate matter (PM) output and lower nitrogen oxide (NOx) levels.

Common Rail Type Fuel Injection System
In this fuel injection system complying with the Emission Regulations, one fuel pump runs to generate high pressure for distributing fuel to each injector per cylinder through a common rail. By electronic control, fuel injection volume and timing can be precisely regulated for efficient combustion and higher horsepower. This also reduces PM* (diesel plume), fuel consumption and vibration.

*A particulate matter

Important: The use of fuels other than diesel fuel (US K-2204)(ASTM2-D) is prohibited. Otherwise, the engine may be damaged.

A Quieter Machine

A number of features make this machine quieter. First, isochronous control of the engine speed means a restriction of engine speed during no-load and light-duty operation to suppress sound. A fan with curved blades reduces air resistance and airflow noise.

Third, a time-tested muffler suppresses engine noise significantly and reduces emissions. This advanced low noise design complies with the 2000 / 14 / EC, Stage II directive effective in the European Union from 2006.

Hitachi Silent (HS) Fan
The HS fan is capable of reducing air resistance and air flow sound are utilized at the radiator and oil cooler for quieter operation.

Low Noise Engine
Engine noise is effectively reduced by increasing engine mechanical strength with rigid cylinder block, and by utilizing the elaborate gear train on the flywheel side.

A Recyclable Machine

Approximately 95% of the 2W Series can be recycled. The resin parts are marked to facilitate recycling. The machine is completely lead-free. The radiator and oil cooler are made from aluminum and all wires are lead-less. In addition, bio-degradable hydraulic oil is available for jobsites where special environmental care is required.
### SPECIFICATIONS/EQUIPMENT

#### ENGINE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Cummins QSB6.7</td>
</tr>
<tr>
<td>Type</td>
<td>4-cycle water-cooled, direct injection</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharger and charge air cooled</td>
</tr>
<tr>
<td>No. of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Maximum power ISO 284A</td>
<td>128 kW (171 HP) at 2,200 min</td>
</tr>
<tr>
<td>Without Fan gauge ISO 8802</td>
<td>128 kW (171 HP) at 2,200 min</td>
</tr>
<tr>
<td>Brake and strike</td>
<td>10 mm x 124 mm</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>6,600 cc</td>
</tr>
<tr>
<td>Batteries</td>
<td>2 x 12 V / 1055 COA, 140 Ah</td>
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#### HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Lift arm and bucket are controlled by independent control lever</td>
<td>Lift arm controls to control</td>
</tr>
<tr>
<td>Axle oil temperature</td>
<td>100.0 °C</td>
</tr>
<tr>
<td>Hydraulic cylinders</td>
<td>205R25 (L3), 205R25 (L5)</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>Lift arm raise</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>Lift arm rotation</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>Lift arm lower</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>Bucket drop</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>Total</td>
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</tbody>
</table>

#### SERVICE REFILL CAPACITIES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Capacity</th>
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<tbody>
<tr>
<td>Fuel tank</td>
<td>230.0 liters</td>
</tr>
<tr>
<td>Engine oil</td>
<td>25.0 liters</td>
</tr>
<tr>
<td>Torque converter &amp; transmission</td>
<td>30.0 liters</td>
</tr>
<tr>
<td>Front axle differential &amp; wheel hubs</td>
<td>28.0 liters</td>
</tr>
<tr>
<td>Rear axle differential &amp; wheel hubs</td>
<td>100.0 liters</td>
</tr>
</tbody>
</table>

#### TIRES (tubeless, nylon body)

<table>
<thead>
<tr>
<th>Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive system</td>
<td>20.5-25 (2PR, 3L)</td>
</tr>
</tbody>
</table>

#### STANDARD EQUIPMENT

- **ENGINE**
  - Coolant recovery tank
  - Hydrostatically Operated Cooling Fan with Heat Sensing System
  - Fan guard
  - Muffler, under hood with large exhaust stack
  - Environmentally friendly engine oil drain
  - Engine oil cooler
  - Quick-release fuel filter and water separator
  - Air heater (for cold start)
  - Air filter double element
  - Fuel double filter
  - TT: (Total Torque-control) system

- **POWER TRAIN**
  - Automatic Transmission with Load-Sensing System
  - EEC 80/1269, 300 / 300
  - 280 / 280
  - 250 / 250

- **HYDRAULIC SYSTEM**
  - Lift arm controls to control |
  - Lift arm rotation |
  - Lift arm lower |
  - Bucket drop |
  - Total |

- **TIRES**
  - Tubeless, nylon body |

- **AXLE AND FINAL DRIVE**
  - Four-wheel drive system
  - Semi-floating
  - Front to the front frame
  - Rear to the rear frame
  - Reduction and differential gear
  - Oscillation angle: Total 24° (17°, 12°)
  - Drive wheels: Heavy-duty planetary, mounted inboard

#### REMARKS

- **ENGINE**
  - Minimum turning radius at the centerline of outside light: 5.20 mm

- **HYDRAULIC SYSTEM**
  - Lift arm controls to control |
  - Lift arm rotation |
  - Lift arm lower |
  - Bucket drop |
  - Total |

- **TIRES**
  - Tubeless, nylon body |

- **ELECTRICAL**
  - 24-volt electrical system
  - Standard batteries (2), 12-volt with 1,005 CCA, 140Ah
  - Alternator, 65 A and 24-volts

- **OPERATOR’S STATION**
  - Cab
  - ROPS / FOPS / Multi-plane isolation mounted
  - Sun visor
  - Front / Rear defroster
  - Adjustable armrest
  - Retractable seat belt, 50 mm
  - Seatback pocket
  - Seat backrest tilt, and armrest angle, cushion length and angle, lumbar support
  - Seat backrest, with detachable seat belt, 50 mm
  - Recessed tray, with drink holder
  - Rubber floor mat
  - Bucket cylinder rod guard
  - Multi-lubrication system
  - Euro-bolts, front and rear
  - Exterior lights
  - Option: High brightness / High visibility / Low brightness / Low visibility
  - Headlight, high beam / Low beam / Driving light / Combination light / Safety light
  - Overload protection, includes lockable engine enclosure, and fuel fill
  - Counterweight, built-in
  - Retractable seat belt, 50 mm
  - Seat backrest tilt, and armrest angle, cushion length and angle, lumbar support
  - Seat backrest, with detachable seat belt, 50 mm
  - Recessed tray, with drink holder
  - Rubber floor mat
  - Bucket cylinder rod guard
  - Multi-lubrication system
  - Euro-bolts, front and rear
  - Exterior lights
  - Standard equipment may vary by country, so please consult your Hitachi dealer for details

- **OPTIONAL EQUIPMENT**
  - Optional equipment may vary by country, so please consult your Hitachi dealer for details

- **BATTERIES AND ATTACHMENTS**
  - General purpose bucket with bolt on teeth: 2.7 m³
  - General purpose bucket with bolt on cutting edge: 3.0 m³ / 3.5 m³
  - Rock bucket with bolt on teeth: 2.2 m³
  - Quick coupler and hydraulic control system
  - Bucket cylinder rod guard
  - Multi-lubrication system
  - Euro-bolts, front and rear frame and transmission
  - Counterweight, built-in
  - Rear view mirrors, outside (2) and inside (2)
  - Slow and fast down hooks
  - Open type rear grill
  - Bucket cylinder rod guard
  - Multi-lubrication system
  - Euro-bolts, front and rear frame and transmission
  - Counterweight, built-in
  - Rear view mirrors, outside (2) and inside (2)
  - Slow and fast down hooks

- **TINES**
  - 20.5-25, 22.5-25 (2PR, 3L)
  - Multi-piece rims

- **OTHERS**
  - Bucket cylinder rod guard
  - Multi-lubrication system
  - Euro-bolts, front and rear
  - Buckets on the front frame and transmission
  - Counterweight, built-in
  - Slow and fast down hooks
  - Open type rear grill
  - Bucket cylinder rod guard
  - Multi-lubrication system
  - Euro-bolts, front and rear frame and transmission
  - Counterweight, built-in
  - Rear view mirrors, outside (2) and inside (2)
  - Slow and fast down hooks
  - Open type rear grill

Note: * ROPS (Roll Over Protective Structure) Conforms to ISO 3471:1994 * FOPS (Falling Object Protective Structure) Conforms to ISO 24824:1992 Level I*
### Bucket Selection Guide

<table>
<thead>
<tr>
<th>Bucket type</th>
<th>m³</th>
<th>1.4</th>
<th>1.5</th>
<th>1.6</th>
<th>1.7</th>
<th>1.8</th>
<th>1.9</th>
<th>2.0</th>
<th>2.1</th>
<th>2.2</th>
<th>2.3</th>
<th>2.4</th>
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<tbody>
<tr>
<td>General purpose 2.7</td>
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<tr>
<td>General purpose 2.8</td>
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<tr>
<td>General purpose 3.0</td>
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<tr>
<td>General purpose 3.3</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Rock bucket 2.2</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>High lift arm with general purpose 2.4</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Dimensions & Specifications

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Standard Arm</th>
<th>High Lift Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity ISO heaped</td>
<td>m³</td>
<td>3.2</td>
</tr>
<tr>
<td>ISO shovel</td>
<td>m³</td>
<td>2.4</td>
</tr>
<tr>
<td>A Overall length</td>
<td>mm</td>
<td>7,610</td>
</tr>
<tr>
<td>B Overall height</td>
<td>mm</td>
<td>3,280</td>
</tr>
<tr>
<td>C Width over tires</td>
<td>mm</td>
<td>2,610</td>
</tr>
<tr>
<td>D Wheel base</td>
<td>mm</td>
<td>3,050</td>
</tr>
<tr>
<td>E Ground clearance</td>
<td>mm</td>
<td>335</td>
</tr>
<tr>
<td>F Tread</td>
<td>mm</td>
<td>2,050</td>
</tr>
<tr>
<td>G Bucket width</td>
<td>mm</td>
<td>2,690</td>
</tr>
<tr>
<td>H Turning radius (Centerline of outside tire)</td>
<td>mm</td>
<td>7,628</td>
</tr>
<tr>
<td>H′ Loader clearance circle, bucket in carry position</td>
<td>mm</td>
<td>6,150</td>
</tr>
<tr>
<td>I Overall operating height</td>
<td>mm</td>
<td>6,990</td>
</tr>
<tr>
<td>J Height to bucket hinge pin, fully raised</td>
<td>mm</td>
<td>3,950</td>
</tr>
<tr>
<td>K Digging depth (Horizontal digging angle)</td>
<td>mm</td>
<td>2,790</td>
</tr>
<tr>
<td>L Reach, 45 degree dump, full height</td>
<td>mm</td>
<td>1,300</td>
</tr>
<tr>
<td>M Overall operating height</td>
<td>mm</td>
<td>3,920</td>
</tr>
<tr>
<td>N Height to bucket hinge pin, fully raised</td>
<td>mm</td>
<td>2,610</td>
</tr>
</tbody>
</table>

**Note:** All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983. Static tipping load and operating weight marked with * include 20.5-25-12PR (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.
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.