ZW-6 series

ZW150

WHEEL LOADER

Model code: ZW150-6 / ZW150PL-6
Engine rated power: 104 kW / 139 hp (ISO14396)
Operating weight: 12 250 – 12 520 kg
Bucket ISO heaped: 1.9 – 2.3 m³
ZW150-6.
NO COMPROMISE

Offering exceptional levels of performance without compromising on efficiency, Hitachi ZW-6 wheel loaders are designed to satisfy the requirements of the European construction industry.

Designed to be reliable, durable and versatile for a variety of job sites, and to operate with low levels of fuel consumption, they incorporate the high-quality engineering for which Hitachi is renowned.
DEMAND PERFECTION

Designed and built with an emphasis on the environment, operator comfort and safety, the ZW150-6 has been developed to perfection. It incorporates industry-leading technology created in Japan to meet the highest standards for performance at the lowest possible costs of ownership.

Easy to operate
The hydrostatic transmission enhances versatility and increases productivity.

Smooth operation
Ride control minimises machine pitching.

Superior comfort
Spacious cab with several storage compartments.

Powerful performance
Quick power switch increases engine output when required.

Industry-leading safety
360° visibility from the cab.
Enhanced design
Excellent rear view thanks to the curved engine hood.

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

Enhanced fuel efficiency
New Stage IV engine without DPF.

Exceptional durability
Developed in-house, the front frame of the ZW150-6 has been reinforced.

Low running costs
6% fuel saving in V-shaped loading (19% in travelling operations).

Convenient access
Easy-to-open wide engine covers.
**FIRST FOR RELIABILITY**

Renowned for reliability, Hitachi ZW-6 wheel loaders achieve exceptional levels of performance and efficiency with minimum downtime. The ZW150-6 has been designed with several user-friendly features that ensure quick and easy maintenance, and also contribute to lower running costs.

**Minimal downtime**
The ZW150-6 battery compartment can be accessed easily for maintenance and battery replacement. This results in minimal downtime and a high level of availability.

**Quick access**
The side engine cover opens fully for convenient access. This helps to ensure routine maintenance is completed quickly to ensure a reliable performance.

**Improved fuel efficiency**
The ZW150-6 demonstrates greater fuel efficiency than the previous model 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 now included as standard. This helps to avoid electrical accidents and retain battery energy during long-term storage.

**Reduced cost**
The new Stage IV-compliant engine does not require a diesel particulate filter, which further reduces fuel consumption and maintenance costs.

“We need a wheel loader that is completely reliable and Hitachi fits the bill”

Árpád Barabás, owner, Barabás
The battery is easy to maintain.

New engine reduces fuel consumption.
Anti-clogging radiators enhance durability. The front frame of the ZW150-6 has been reinforced.
The final checking and inspection procedure for each Hitachi wheel loader is typical of Hitachi’s dedication to manufacturing products of unfailing quality in response to customer needs.

DEDICATED TO DURABILITY

Strengthened components, robust materials and additional reinforcement for key features ensure the durability of the ZW150-6. They also contribute to its reliable operation, particularly when working in challenging environments.

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

**Strengthened components**
Heavy-duty axles, designed in-house, have been incorporated into the design of the ZW150-6 to improve durability.

**Durable materials**
High-quality radiators improve resistance to corrosion and enhance the overall durability of the ZW150-6 wheel loader.

**Maximum uptime**
Anti-clogging radiators (WPFR) are designed with square-shaped instead of triangular-shaped fins to prevent clogging. This reduces radiators maintenance frequency.

The optional belly guard provides added protection.
The cab is spacious and the visibility is excellent

Christophe Warnier, operator, Jan De Nul

INCREIBLE VERSATILITY

ZW-6 wheel loaders are often described as a perfect fit by Hitachi customers, which illustrates their versatility for a wide range of applications and job sites. In addition, they are smooth and efficient to operate, and offer increased productivity and greater fuel efficiency.

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 efficiency
When working in snowy, slippery or muddy conditions, the traction control system of the ZW150-6 helps to avoid tyre slippage, and ultimately prevents wear and fuel wastage, and lowers running costs. It is highly effective for light applications.

Parallel lift arm
The ZW150PL-6 provides parallel movement from ground level. Perfect for loading and unloading items with increased load control.

Superior performance
The rimpull control system allows for a superior digging performance by striking a balance between rimpull and front digging force. Rimpull can be adjusted to varying degrees, depending on the work mode.

The cab is spacious and the visibility is excellent

Christophe Warnier, operator, Jan De Nul

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Superior performance
The rimpull control system allows for a superior digging performance by striking a balance between rimpull and front digging force. Rimpull can be adjusted to varying degrees, depending on the work mode.
The ride control feature ensures a smooth performance.

The traction control system helps to avoid tyre slippage in wet or wintry conditions.
Easy access for maintenance from ground level.

The cab provides a quiet and comfortable working environment.
INDUSTRY-LEADING QUALITY

To set industry-leading standards in terms of performance, reliability, comfort and safety, the ZW150-6 has been built using components of the highest quality. Its clever design offers 360° visibility from the cab and ensures it is one of the quietest wheel loaders in its class.

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

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

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.

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 ZW150-6 was designed and built using market-leading Japanese technology

HCME Wheel Loader Manager, Vasilis Drougkas

UNIQUE TECHNOLOGY

Advanced technology developed by Hitachi is at the heart of the ZW150-6. It has an impact on everything, from the wheel loader’s environmental performance to the comfort and safety of its operator. A technology-led approach enables Hitachi to meet the evolving needs of the construction industry, and improve the experience of its customers.

Reduced maintenance
A new Stage IV-compliant engine contains a high-volume cooled exhaust gas recirculation (EGR) system, a common rail-type fuel injection system and a diesel oxidation catalyst (DOC). This helps to reduce fuel costs and maintenance requirements.

Smaller environmental impact
The auto shutdown feature helps to prevent fuel wastage, as well as reduce noise levels, exhaust emissions and CO₂ levels of the ZW150-6 medium wheel loader.

Optimum performance
The first speed dial switch in combination with the creep mode switch optimises the usage of the ZW150-6 on different job sites and with hydraulic attachments.

Remote monitoring
Global e-Service allows ZW150-6 owners to monitor their Hitachi machines remotely via Owner’s Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximise efficiency, minimise downtime and improve overall performance.

Smooth operation
The ZW150-6 is easy to manoeuvre thanks to the HST control system. The operator can choose between two work modes according to the task and terrain, and it enables a smooth transition between speeds.
The HST control system enables a smooth performance.

The new engine and SCR system have a smaller environmental impact.

First speed dial switch optimises performance on different job sites.
REDUCING THE TOTAL COST OF OWNERSHIP

Hitachi has created the Support Chain after-sales programme 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 excavator, which sends operational data daily via GPRS or satellite 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 programmes helps to maximise availability. Running costs can also be managed by analysing 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 summarising 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 CO₂ emissions.

Technical support
Each Hitachi service technician receives full technical training from HCME in Amsterdam. These sessions provide access to the same technical knowledge available within the Hitachi quality assurance departments and design centres. Technicians combine this global expertise with the local language and culture of the customer to provide the highest level of after-sales support.

We are very happy with the quality and low cost of ownership of the Hitachi wheel loader

Phil Meuser-Schaede, owner, Trasswerke Meurin
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 minimise equipment repair costs – Hitachi dealers offer a unique extended warranty called HELP (Hitachi Extended Life Program) and comprehensive service contracts. These can help to optimise the performance of each machine, reduce downtime and ensure higher resale values.

Parts
Hitachi offers a wide range and a high availability of parts dispatched from the 53,000 m² HCME European Parts Depot in The Netherlands.
- Hitachi Genuine Parts: allow machines to work for longer, with lower running and maintenance costs.
- Hitachi Select Parts and 2Genuine Parts: especially for older machines, they cost less, 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.
- Remanufactured components: offering an economically viable solution, they are the best option when preventative replacements are required.

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

ZAXIS excavators

EH dump trucks
Hitachi Construction Machinery

Hitachi Construction Machinery Co., Ltd. (HCM) was founded in 1970 as a subsidiary of Hitachi, Ltd. and has become one of the world’s largest construction equipment suppliers. A pioneer in producing hydraulic excavators, HCM also manufactures wheel loaders, rigid dump trucks, crawler cranes and special application machines at state-of-the-art facilities across the globe.

Incorporating advanced technology, Hitachi construction machinery has a reputation for the highest quality standards. Suitable for a wide range of industries, it is always hard at work around the world – helping to create infrastructure for a safe and comfortable way of living, developing natural resources and supporting disaster relief efforts.

Hitachi ZW wheel loaders are renowned for being reliable, durable and versatile – capable of delivering the highest levels of productivity under the most challenging of conditions. They are designed to provide owners with a reduced total cost of ownership, and operators with the ultimate level of comfort and safety.

Kotaro Hirano, HCM President

“We develop construction machinery that contributes to the creation of affluent and comfortable societies.”

BUILDING A BETTER FUTURE

Established in 1910, Hitachi, Ltd. was built upon a founding philosophy of making a positive contribution to society through technology. This is still the inspiration behind the Hitachi group’s reliable solutions that answer today’s challenges and help to create a better world.

Hitachi, Ltd. is now one of the world’s largest corporations, with a vast range of innovative products and services. These have been created to challenge convention, improve social infrastructure and contribute to a sustainable society.

EX ultra-large excavators
**SPECIFICATIONS**

**ENGINE**
- Model: CUMMINS QSB4.5
- Type: 4-cycle water-cooled, direct injection
- Aspiration: Turbocharger and intercooled
- Aftertreatment: DOC and SCR system
- No. of cylinders: 4
- Maximum power:
  - ISO 14396, gross: 108 kW (145 hp) at 2 000 min⁻¹ (rpm)
  - ISO 9249, net: 106 kW (142 hp) at 2 000 min⁻¹ (rpm)
- Rated power:
  - ISO 14396, gross: 104 kW (139 hp) at 2 200 min⁻¹ (rpm)
  - ISO 9249, net: 103 kW (138 hp) at 2 200 min⁻¹ (rpm)
- Maximum torque: 597 Nm at 1 500 min⁻¹ (rpm)
- Piston displacement: 4.460 L
- Batteries: 2 x 12 V
- Air cleaner: Two element dry type with restriction indicator
- Emission: Complies with EU stage IV and US EPA Tier 4 Final

**POWER TRAIN**
- Transmission: Electrical-controlled 2 motor hydrostatic transmission with summation gear box, Gear box: Fixed gear ratio, powershift countershaft type
- Cooling method: Forced circulation type
- Travel speed* Forward / Reverse:
  - 1st: 7.0 / 7.0 km/h
  - 2nd: 12.0 / 12.0 km/h
  - 3rd: 22.0 / 22.0 km/h
  - 4th: 39.0 / 39.0 km/h
  *

**AXLE AND FINAL DRIVE**
- Drive system: Four-wheel drive system
- Front & rear axle: Semi-floating
- Front: Fixed to the front frame
- Rear: Trunnion support
- Reduction and differential gear: Two stage reduction with torque proportional differential
- Oscillation angle: Total 20° (+10°, -10°)
- Final drives: Heavy-duty planetary, mounted inboard

**TIRES**
- Tire size: 20.5 R25 (L3)
- Optional: Refer to standard & optional equipment list

**BRAKES**
- Service brakes: Inboard mounted fully hydraulic 4 wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity
- Parking brakes: Spring applied, hydraulically released, wet disc type

**STEERING SYSTEM**
- Type: Articulated frame steering
- Steering angle: Each direction 40°; total 80°
- Cylinders: Double-acting piston type
- No. x Bore x Stroke:
  - Arm: 2 x 125 mm x 760 mm
  - Bucket: 1 x 150 mm x 495 mm

**HYDRAULIC SYSTEM**
- Arm and bucket are controlled by multi function control lever
- Arm controls:
  - Four position valve: Raise, hold, lower, float
  - Bucket controls with automatic bucket return to-dig control
  - Main pump (Load & steer):
    - Gaer type: 194 L/min at 2 000 min⁻¹ (rpm) at 20.6 MPa (210 kgf/cm²)
    - Relief pressure setting:
      - Gear type: 20.6 MPa (210 kgf/cm²)
      - HST charging pump:
        - Gear type: 53.9 L/min at 2 200 min⁻¹ (rpm) at 2.45 MPa (25 kgf/cm²)
- Transmission charging pump:
  - Gear type: 17.6 L/min at 2 200 min⁻¹ (rpm) at 1.96 MPa (20 kgf/cm²)
- ZW150-6 Hydraulic cylinders
  - Type:
    - Double acting type
    - No. x Bore x Stroke:
      - Arm: 2 x 125 mm x 760 mm
      - Bucket: 1 x 150 mm x 495 mm
- ZW150PL-6 Hydraulic cylinders
  - Type:
    - Double acting type
    - No. x Bore x Stroke:
      - Arm: 2 x 125 mm x 760 mm
      - Bucket: 2 x 110 mm x 1 005 mm
- Filters:
  - Full-flow 10 micron return filter in reservoir
- Hydraulic cycle times:
  - ZW150-6:
    - Lift arm raise: 6.0 s
    - Lift arm lower: 4.5 s
    - Bucket dump: 1.4 s
    - Total: 11.9 s
  - ZW150PL-6:
    - Lift arm raise: 6.0 s
    - Lift arm lower: 3.4 s
    - Bucket dump: 3.4 s
    - Total: 12.8 s

**SERVICE REFILL CAPACITIES**
- Fuel tank: 200 L
- Engine coolant: 20 L
- Engine oil: 16 L
- Front axle differential & wheel hubs: 25 L
- Rear axle differential & wheel hubs: 25 L
- Hydraulic oil tank: 96 L
- DEF/AdBlue® tank: 12 L
DIMENSIONS & SPECIFICATIONS ZW150-6

<table>
<thead>
<tr>
<th>Bucket type</th>
<th>Standard arm</th>
<th>High lift arm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General purpose</td>
<td>General purpose</td>
</tr>
<tr>
<td></td>
<td>Bolt-on cutting edge</td>
<td>Weld-on adaptor &amp; teeth</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO heaped m³</td>
<td>2.3  2.2</td>
<td>2.0  1.9</td>
</tr>
<tr>
<td>ISO struck m³</td>
<td>1.9  1.8</td>
<td>1.6  1.6</td>
</tr>
<tr>
<td>A Overall length mm</td>
<td>7 465  7 635</td>
<td>7 945  8 115</td>
</tr>
<tr>
<td>B Overall height mm</td>
<td>3 265</td>
<td>3 000</td>
</tr>
<tr>
<td>C Width over tires mm</td>
<td>2 490</td>
<td>2 000</td>
</tr>
<tr>
<td>D Wheel base mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Ground clearance mm</td>
<td>430</td>
<td></td>
</tr>
<tr>
<td>F Tread</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Bucket width mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Turning radius (Centerline of outside tire) mm</td>
<td>5 085</td>
<td></td>
</tr>
<tr>
<td>H' Loader clearance circle, bucket in carry position mm</td>
<td>5 955  6 000</td>
<td>6 135  6 185</td>
</tr>
<tr>
<td>I Overall operating height mm</td>
<td>5 110  5 110</td>
<td>5 375  5 375</td>
</tr>
<tr>
<td>J Carry Height of bucket pin mm</td>
<td>5 15  5 15</td>
<td>5 15  5 15</td>
</tr>
<tr>
<td>K Height to bucket hinge pin, fully raised mm</td>
<td>3 835  3 835</td>
<td>4 200  4 200</td>
</tr>
<tr>
<td>L Dumping clearance 45 degree, full height mm</td>
<td>2 810  2 690</td>
<td>3 230  3 120</td>
</tr>
<tr>
<td>M Reach, 45 degree dump, full height mm</td>
<td>1 040  1 180</td>
<td>1 170  1 300</td>
</tr>
<tr>
<td>N Digging depth (Horizontal digging angle) mm</td>
<td>110  90</td>
<td>290  280</td>
</tr>
<tr>
<td>O Max. roll back at carry position deg</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>P Roll back angle at full height deg</td>
<td>55  50</td>
<td></td>
</tr>
<tr>
<td>Static tipping load * kg</td>
<td>10 220  10 360</td>
<td>8 320  8 050</td>
</tr>
<tr>
<td>Breakout force kgf</td>
<td>9 800  8 450</td>
<td>10 430  9 590</td>
</tr>
<tr>
<td>Operating weight kg</td>
<td>12 290  12 250</td>
<td>12 500  12 430</td>
</tr>
</tbody>
</table>


*: Static tipping load and operating weight marked with \* include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

<table>
<thead>
<tr>
<th>Option item</th>
<th>Operating weight (kg)</th>
<th>Tipping load (kg)</th>
<th>Overall width (mm) (outside tire)</th>
<th>Overall height (mm)</th>
<th>Overall length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Straight</td>
<td>Full turn</td>
<td></td>
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<tr>
<td>Tire</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>20.5R25(L3)HA2</td>
<td>±0  +460</td>
<td>±0  +460</td>
<td>±0  +460</td>
<td>±0  +460</td>
<td>±0  +460</td>
</tr>
<tr>
<td>20.5R25(L3)LD D2A</td>
<td>+330  +450</td>
<td>+290  +400</td>
<td>+25  +35</td>
<td>+30  +35</td>
<td></td>
</tr>
<tr>
<td>20.5R25(L3)XMINE D2 PRO</td>
<td>+400  +400</td>
<td>+400  +400</td>
<td>+400  +400</td>
<td>+400  +400</td>
<td></td>
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<tr>
<td>20.5R25(L2)XSNOPLUS</td>
<td>+5  +5</td>
<td>+0  +0</td>
<td>+0  +0</td>
<td>+0  +0</td>
<td></td>
</tr>
<tr>
<td>Belly guard</td>
<td>+70  +50</td>
<td>+40</td>
<td>+0  +0</td>
<td>+0  +0</td>
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</tr>
</tbody>
</table>

BUCKET SELECTION GUIDE

<table>
<thead>
<tr>
<th>Material Density kg/m³</th>
<th>1.100</th>
<th>1.200</th>
<th>1.300</th>
<th>1.400</th>
<th>1.500</th>
<th>1.600</th>
<th>1.700</th>
<th>1.800</th>
<th>1.900</th>
<th>2.000</th>
<th>2.100</th>
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<tr>
<td>= 2.2 m³</td>
<td>115%</td>
<td>100%</td>
<td>95%</td>
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<td>General purpose</td>
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<td>High lift arm with general purpose</td>
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</tbody>
</table>

% = Bucket Fill Factor
## DIMENSIONS & SPECIFICATIONS ZW150PL-6

### Bucket Selection Guide

<table>
<thead>
<tr>
<th>Material Density</th>
<th>1 000</th>
<th>1 100</th>
<th>1 200</th>
<th>1 300</th>
<th>1 400</th>
<th>1 500</th>
<th>1 600</th>
<th>1 700</th>
<th>1 800</th>
</tr>
</thead>
<tbody>
<tr>
<td>%±Bucket Fill Factor</td>
<td>115%</td>
<td>100%</td>
<td>96%</td>
<td>92%</td>
<td>88%</td>
<td>84%</td>
<td>80%</td>
<td>76%</td>
<td>72%</td>
</tr>
</tbody>
</table>

### Weight & Specification Changes

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<th>Overall width (mm) (outside tire)</th>
<th>Overall height (mm)</th>
<th>Overall length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.5R25.5XH4A</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>20.5R25.5XLD D2A</td>
<td>+460</td>
<td>+290</td>
<td>±0</td>
<td>±25</td>
<td>+30</td>
</tr>
<tr>
<td>20.5R25.5XMLE D2 PRO</td>
<td>+620</td>
<td>+400</td>
<td>±0</td>
<td>+20</td>
<td>+35</td>
</tr>
<tr>
<td>20.5R25.5XSNOPPLUS</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>Belly guard</td>
<td>+70</td>
<td>+50</td>
<td>+40</td>
<td>±0</td>
<td>±0</td>
</tr>
</tbody>
</table>


### WITH FORK ATTACHMENT

<table>
<thead>
<tr>
<th>Attachment type</th>
<th>Fork</th>
</tr>
</thead>
<tbody>
<tr>
<td>O Max. stacking height (mm)</td>
<td>7,440</td>
</tr>
<tr>
<td>P Height of fork at maximum reach (mm)</td>
<td>1,910</td>
</tr>
<tr>
<td>Q Reach at ground level (mm)</td>
<td>1,790</td>
</tr>
<tr>
<td>R Max. reach (mm)</td>
<td>1,790</td>
</tr>
<tr>
<td>S Reach at max. stacking height (mm)</td>
<td>990</td>
</tr>
<tr>
<td>Static tipping load (kgf)</td>
<td>6,220</td>
</tr>
<tr>
<td>Full 40 degree turn (kgf)</td>
<td>7,130</td>
</tr>
<tr>
<td>Max. payload per EN 474-3, 80 % (kg)</td>
<td>5,600</td>
</tr>
<tr>
<td>Max. payload per EN 474-3, 60 % (kg)</td>
<td>4,200</td>
</tr>
<tr>
<td>Fork tine length (mm)</td>
<td>1,220</td>
</tr>
<tr>
<td>Operating weight * (kg)</td>
<td>12,900</td>
</tr>
</tbody>
</table>

### Buckets for ZW150PL-6

| Bucket type | General purpose
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>ISO heaped m³</td>
</tr>
<tr>
<td>A Overall length (mm)</td>
<td>7,800</td>
</tr>
<tr>
<td>B Overall height (mm)</td>
<td>3,265</td>
</tr>
<tr>
<td>C Width over tires (mm)</td>
<td>2,490</td>
</tr>
<tr>
<td>D Wheel base (mm)</td>
<td>3,000</td>
</tr>
<tr>
<td>E Ground clearance (mm)</td>
<td>430</td>
</tr>
<tr>
<td>F Tread (mm)</td>
<td>1,930</td>
</tr>
<tr>
<td>G Bucket width (mm)</td>
<td>5,000</td>
</tr>
<tr>
<td>H Turning radius (Centerline of outside tire) (mm)</td>
<td>5,085</td>
</tr>
<tr>
<td>I Overall operating height (mm)</td>
<td>6,030</td>
</tr>
<tr>
<td>J Height to bucket hinge pin, fully raised (mm)</td>
<td>3,980</td>
</tr>
<tr>
<td>K Bucket weight (kg)</td>
<td>1,290</td>
</tr>
<tr>
<td>L Static tipping load * (kgf)</td>
<td>8,990</td>
</tr>
<tr>
<td>M Reach, 45 degree dump, full height (mm)</td>
<td>2,680</td>
</tr>
<tr>
<td>N Digging depth (Horizontal digging angle) (mm)</td>
<td>1,380</td>
</tr>
<tr>
<td>O Attachments: Fork</td>
<td></td>
</tr>
</tbody>
</table>

OPERATOR’S STATION

**Adjustable steering column with POP-UP**

**Ashtray, cigar lighter**

**Auto control air conditioner**
- **with single intake filter**
- **with double intake filters**

**Coat hook**

**Front/Rear defroster**

**Glove compartment**

**Radio AM/FM**
- **AM/FM radio with AUX for digital audio player**
- **AM/FM/DAB+ radio with Bluetooth and Aux for digital audio player**

**Rear view camera & monitor**

**Rear view mirrors**
- **2, Inside**
- **2, Outside with proximity mirror**
- **2, Outside Heated with proximity mirror**

**Retractable seat belt, 50 mm**

**ROPS (ISO 3471), FOPS (ISO 3449): multi-plane isolation mounted for noise, vibration reduction**

**Rubber floor mat**

**Seat**
- **Air suspension seat with headrest and heater: fabric, high back, adjustable for damper, inclination of the seat, seat depth, weight-height, fore-aft position, reclining angle, armrest angle, headrest height and angle, lumbar support**
- **Heavy Duty air suspension seat equipped with horizontal suspension headrest and heater: fabric, high back, adjustable for damper, inclination of the seat, seat depth, weight-height, fore-aft position, reclining angle, armrest angle, headrest height and angle, lumbar support**

**Storage**
- **Cup holder**
- **Digital audio player holder**
- **Document holder**
- **Hot & cool box**
- **Seatback pocket**
- **Sun shade film on front windshield**
- **Sun visor**
- **Textured steering wheel with spinner knob**
- **Tinted safety glass: others: tempered, windshield: laminated**
- **Windshield washer front and rear**
- **Windshield wipers front and rear**

ELECTRICAL SYSTEM

**Backup alarm**

**Battery disconnect switch**

**Large capacity batteries (155Ah-900A)**

**12 V power outlet**

LIGHTS

**Brake & tail lights (LED)**

**Clearance lights**

**Headlights**

**Rotating lamp**

**Turn signals with hazard switch**

**EQUIPMENT**

- Contains fluorinated greenhouse gases, Refrigerant type: HFC-143a, GWP: 1430, Amount: 0.90 kg, CO2e: 1.29 ton.

**POWER TRAIN**

**Creep mode switch**

**Differential**
- **TPD (Torque Proportioning Differential, front and rear)**
- **LSD (Limited Slip Differential, front and rear)**

**Electrically controlled HST system**

**Forward/Reverse lever**

**Forward/Reverse selector switch**

**Power mode switch**

**Traction control switch**

**1st speed limit switch**

ENGINE

**Air intake**
- **Pre-cleaner (Cyclone type)**
- **Pre-cleaner (Turbo II)**

**Air filter double elements**

**Anti-clogging radiator (Wide fin pitch)**

**Automatic reversible cooling fan with heat sensing**

**Cartridge-type engine oil filter**

**Cartridge-type fuel pre-filter (with water separator function)**

**Cartridge-type fuel main filter**

**Coolant reservoir sight gauge**

**DEF/AdBlue® tank with ISO magnet adapter**

**Engine auto shut-down control system**

**Engine oil remote drain**

**Fan guard**

MONITORING SYSTEM

**Gauge: coolant temperature, fuel level, HST oil temperature**

**Indicator lights: air filter restriction, clearance lights, control lever lock, discharge warning, emergency steering, engine warning, fan reverse, forward/reverse selector switch, fuel filter restriction, high beam, HST oil temperature, HST warning, maintenance, parking brake, power mode, preheat, seat belt, service, turn signal, water separator, work lights, Aftertreatment Device Regeneration Request (Yellow), Aftertreatment Device Regeneration Inhibit Alarm (Yellow)**

**LCD monitor display: clock, ECO, F-N-R/Shift position, hour meter, odometer, replacement intervals, ride control, speedometer, traction control switch, DEF/AdBlue® Level Gauge**

**Warning lights: brake oil low pressure, engine oil low pressure, hydraulic oil level, overheat, steering oil low pressure, Urea Alarm**
**BRAKE SYSTEM**

<table>
<thead>
<tr>
<th>Feature</th>
<th>ZW150-6</th>
<th>ZW150PL-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front &amp; rear independent brake circuit</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Inboard mounted fully hydraulic 4 wheel disc</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Spring applied/Hydraulic-released parking brake</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

<table>
<thead>
<tr>
<th>Feature</th>
<th>ZW150-6</th>
<th>ZW150PL-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket auto leveler (Automatic return to dig control)</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**Control lever**

- For 3 spools control valve
  - MF lever & AUX lever for 3rd function
  - 2 levers & AUX lever for 3rd function
    - Inside layout pattern
      - (3rd - bucket - liftarm)
- For 4 spools control valve
  - MF lever & AUX joystick lever for 3rd & 4th function
  - 2 levers & AUX 2 levers for 3rd & 4th function
    - Inside layout pattern
      - (4th - 3rd - bucket - liftarm)
- For 5 spools control valve
  - MF lever & AUX lever for 3rd function
    - 2 levers & AUX levers for 3rd function
      - Inside layout pattern
        - (3rd - bucket - liftarm)

**TIRES**

<table>
<thead>
<tr>
<th>Tires</th>
<th>ZW150-6</th>
<th>ZW150PL-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.5R25 (L3) XHA2</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>20.5R25 (L5) XLDD2</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>20.5R25 (L5) XMINED2 PRO</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>20.5R25 (L2) XSNCPPLUS</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

**MISCELLANEOUS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>ZW150-6</th>
<th>ZW150PL-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articulation lock bar</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Belly guard (Bolt on)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Bucket cutting edge protection</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Bucket cylinder guard</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Counterweight, built-in</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Drawbar with locking pin</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Emergency steering</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**Fenders**

- For 20.5 R25 (Front & full covered rear fenders with mud flaps)
- Front windshield guard                      | ○   | ○         |
- Global e-Service                             | ●   | ●         |
- Lift arm                                     | ○   | –         |
- High lift arm                                | –   | ●         |
- Parallel lift arm                            | –   | ●         |
- Standard lift arm                            | –   | –         |
- Lift & tie down hooks                        | ●   | ●         |
- On board information controller              | ●   | ●         |
- Piller proof                                 | ●   | ●         |
- Battery cover with locking bracket           | ●   | ●         |
- Lockable engine cover                        | ●   | ●         |
- Lockable fuel refilling cap                  | ●   | ●         |
- Quick coupler (ISO 23727)                    | –   | ●         |
- Radiator dust protection screen              | ○   | ○         |
- Rear licence plate bracket                   | ○   | ○         |
- Road homologation                            | ○   | ○         |

**German road homologation kit:**
- Rear license plate bracket, reflective sticker, wheel blocks

**Italian road homologation kit:**
- Cab lights, bucket cutting edge protection, link stopper, rear license plate bracket, reflective sticker, rotating lamp

**Spanish road homologation kit:**
- Rear license plate bracket, rotating lamp

- Standard tool kit                           | ●   | ●         |
- Wheel blocks                                 | ○   | ○         |

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.
Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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.