ZW-5 series Parallel linkage tool carrier version

ZW180PL

WHEEL LOADER

Model Code : ZW180PL-5B
Max. Engine Power : 126 kW (169 HP)
Operating Weight : 15 470 - 15 670 kg
Bucket ISO Heaped : 2.5 - 3.0 m³
A comfortable work space enhances operational efficiency.

Hitachi is renowned for manufacturing technologically advanced machines that deliver an outstanding level of performance.

The ZW180PL-5 has a positive effect on levels of safety and sustainability.

New hydraulics and gearshift systems, plus enhanced maneuverability, ensure maximum productivity.

Daily inspections can be carried out quickly and easily, which increases the availability of the ZW180PL-5.

Customers can choose from a comprehensive range of after-sales services.

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Advanced technology
The quick power switch boosts the power of the ZWPL-5 wheel loader when required by changing the work mode.

Parallel Lift Arm
Provides parallel movement from ground level. Perfect for loading and unloading items with increased load control.

Lower fuel costs
The new ZWPL-5 wheel loader can work in two modes, which provide an appropriate level of performance for a particular job. One is for regular operations with the benefit of efficient fuel consumption; the other is for more demanding tasks and increases productivity. The optional auto-engine shutdown function avoids fuel wastage while the machine is long idling.

High productivity
A new hydraulic circuit facilitates the combined operation of the bucket and lift arm for loading and prioritises use of the bucket for loading work.

Powerful engine
The 6.7-litre six-cylinder water-cooled turbo engine enables a powerful digging performance, impressive travel speeds and benefits from excellent fuel consumption.

Heavy-duty axle
Hitachi axles are renowned for high performance and durability – ideal for working on demanding job sites.

Hydraulic Quick Coupler
Switch attachments from the comfort of your cab. Enables the rapid and seamless replacement of working tools.
The new Hitachi ZW180PL-5 wheel loader has been designed with one aim in mind: empowering your vision. In terms of productivity, comfort, advanced technology, environmental performance and maintenance, it delivers on all levels. It not only meets our customers’ expectations of high-quality, reliable machines, but also provides operators with a safer working environment, a comfortable cab with easy-to-use controls, and overall, a machine that responds quickly and precisely. To ensure optimum availability of the new ZW180PL-5, we have incorporated easy maintenance features into its design. We also offer the flexible Hitachi Support Chain after-sales programme to customers who wish to further enhance its uptime and protect their investment.

**Spacious cab**
The heated air-suspension seat can slide further back, providing more legroom. The tilting telescopic pop-up steering column has also been repositioned to create additional space.

**Ultimate comfort**
An air-conditioning system regulates the temperature inside the cab and an optional filter is available for industrial waste job sites. Sound insulation reduces noise levels from the local environment.

**Operator safety**
A pillar-less windshield and large sun visor have enhanced visibility levels from the operator’s seat.

**Controlled movement**
A new clutch cut-off system allows for smooth operation when the ZWPL-5 wheel loader is loading.

**Quick and easy service access**
The redesigned engine cover provides easy access to inspection points and allows for quick maintenance at ground level.

**Transmission control**
The automatic transmission selects the appropriate gear for travelling and digging.

**Additional Counterweight**
Provides better stability during the transfer of heavy loads.
COMFORT

The spacious cab of the new ZW180PL-5 wheel loader was designed to offer maximum comfort. Several modifications have been made to create more room, provide greater visibility and offer a pleasant working environment for operators. Practical and user-friendly features have been incorporated to help you work quickly and easily. The ultimate aim was to improve the overall user experience of Hitachi ZWPL-5 wheel loaders, so you could enjoy your work and feel less fatigued at the end of the day.
For operator comfort, the ZWPL-5 series is second to none

Take a seat
Hitachi has prioritised operator comfort in the design of the ZWPL-5 wheel loaders to give you a greater sense of enjoyment during your working day.

The sloped ladder and wide steps allow quick and easy access to the cab. The heated air-suspension seat with adjustable lumbar support can slide back further than ever before, allowing more leg room. The wrist and arm rests and right-hand side console can be adjusted to achieve a comfortable sitting position, and the tilting telescopic and pop-up steering column has also been repositioned to create additional space.

Pleasant working conditions
Busy construction sites and quarries can be stressful environments to work in, but Hitachi has installed a range of features in the new ZWPL-5 wheel loaders to make you feel more relaxed wherever you are.

An effective air conditioning system regulates the temperature within the cab. An optional air-conditioning filter can also be fitted for working in industrial waste and indoor disposal facilities. Noise levels within the cab have been reduced thanks to a high level of sound insulation.

Space for storage
Working long shifts means that you can spend most of your day in the cab of the ZWPL-5 wheel loader. Hitachi has incorporated several practical features to make you feel more at home.

There is a large space for a lunch box to be placed behind or at the side of the seat. The cab also has a large cool box, which is cooled by the air conditioner, with enough storage space for four cans or bottles. The cab also has a drinks holder, designed to hold a 1.5-litre bottle.

Enjoy your day
A happy operator is also a more productive one. That’s why we have enhanced the versatility of the audio equipment, so you can listen to your favourite music while you work.

The AM/FM stereo radio now has an auto-tuning feature and the two-speaker stereo system provides excellent sound quality. It is also possible to connect this with your personal MP3 player thanks to the inclusion of an MP3 dock.

Key features
- Heated air-suspension seat
- Expansive leg room
- Ergonomically designed control panel
- Effective air conditioning
- Tilting telescopic and pop-up steering column
- Easy access via sloped ladder and wide steps
- AUX terminal and storage for MP3 player
ADVANCED TECHNOLOGY

Several decades of experience in manufacturing construction equipment have placed Hitachi at the forefront of the industry. Its technologically advanced machines are renowned around the world. The new ZW180PL-5 has been developed using this expertise and has the capability of exceeding previous levels of performance and productivity. In addition, many of the features on the new ZWPL-5 wheel loader range will result in lower fuel consumption and a reduced impact on the environment.
A superior performance is guaranteed

Simple work mode ①

The new ZWPL-5 wheel loader can operate in two modes to ensure lower fuel consumption and maximise productivity: Standard mode is for regular duties such as loading materials; and P mode is chosen for more demanding tasks such as heavy duty digging.

In Standard mode, the engine speed is controlled, which allows for smooth and efficient acceleration during loading, regular operations and travelling on level terrain. Fuel consumption is reduced by up to 10%, enhancing its environmentally friendly performance.

The P mode is useful when greater traction force is required for heavy-duty excavation and travelling uphill. By fully utilising the engine’s capability, it allows for powerful digging and a quick ascent up gradual slopes.

Quick power switch ②

The operator can boost the power of the ZWPL-5 wheel loader at the push of a button. The Quick power switch changes the mode from Standard to P and can be used when the machine is travelling uphill with a full load or when greater breakout force is required.

Clutch cut-off ③

The new clutch cut-off system controls clutch timing for smoother operation, according to travel speed and the amount of stroke of the brake pedal. When travelling at high speed on flat terrain, the clutch can be released early so the wheel loader slows down smoothly with the application of the brake pedal.

When travelling slowly uphill, the clutch is released by deeply depressing the pedal to allow for easy unloading.

Key features

- Simple work mode
- Quick power switch
- Clutch cut-off
ENVIRONMENTAL AWARENESS

The environment was an important design consideration for the new range of ZWPL-5 wheel loaders. The ZW180PL-5 has been developed to have a positive impact on both safety and sustainability. It satisfies the latest EU regulations on emission standards and has a variety of fuel-efficient features, which help to reduce running costs. With greater all-round visibility from the cab, the ZW180PL-5 also contributes to enhanced safety and the successful operation of any job site.
The ZW180PL-5 contributes to a cleaner, safer environment

A cleaner environment
The new ZWPL-5 wheel loader range epitomises our efforts to minimise the impact of construction machinery on the environment in compliance with EU emission control stage IIIIB. The variable geometry turbocharger – that encourages optimal combustion – and cooled-EGR (Exhaust Gas Recirculation) helps to reduce nitrous oxide levels.

The maintenance-free Diesel Oxidation Catalyst (D.O.C.) reduces particulate matter (PM) from engine exhaust by simple, flow-through passive oxidation without the need of SCR or DPF (Diesel Particulate Filter). A chemical reaction occurs at normal system temperatures that allow a reduction of PM in the exhaust without compromising performance or reliability.

The optional auto-engine shutdown function prevents fuel wastage by stopping the engine while the wheel loader is long idling. In addition, all resin parts on the new ZWPL-5 are suitable for recycling and clearly marked for ease of use in this process. The ECO display visualises ECO drive and results in a fuel-saving performance.

A safer environment
The operator of the ZWPL-5 can relax with the knowledge that he is working in a safer environment. The new wheel loader offers excellent visibility from all angles. The view from the cab is enhanced by a pillar-less windshield, a large sun visor and additional glass panels in the door.

Looking to the rear of the machine, the counterweight is now visible on both sides, which is particularly useful for working on small job sites. The optional rear-view monitor satisfies the European visibility standard and allows the operator to see right behind the machine. The color display is easy to view and works automatically when the FNR lever/switch is reverse position.

Shift-up delay to third gear
This system delays the timing of the shift-up to the 3rd gear to enhance safer operation of the ZWPL-5 wheel loader in confined spaces. The wheel loader can perform excavating and unloading tasks more safely in first and second gear.

Key features
- Fuel-saving work mode
- Auto-engine shutdown (optional)
- Diesel Oxidation Catalyst (DOC)
- ECO display
- Pillar-less windshield
- Large sun visor
- Both sides of counterweight visible
- Rear-view monitor (optional)
- Shift-up delay to third gear
The new Hitachi ZW180PL-5 wheel loader has been built to exceed your expectations. The design incorporates a new hydraulic circuit and a smooth lift arm movement, which help to boost efficiency on the job site. Productivity has also been increased by the wheel loader’s enhanced maneuverability, due to the automatic gearshift controls. With the new ZW180PL-5 range, you can look forward to a quick return on your investment and greater profitability.
Designed to improve efficiency on the job site

**Increased efficiency**

We have designed the ZW180PL-5 to offer increased productivity – without burdening the environment – through sustainable operations.

It is equipped with a new hydraulic circuit, which facilitates the combined operation of the bucket and lift arm for loading, and prioritises use of the bucket for unloading.

The lift arm movement also makes a contribution to the new ZWPL-5’s high productivity levels. The lowering of the lift arm stops smoothly thanks to the restriction valve, reducing vibrations and results in less operator fatigue.

The height of the lift arm kick-out and lift arm auto leveller are easily adjusted using the buttons in the side console.

**Enhanced maneuverability**

The maneuverability of the ZW180PL-5 has been enhanced by automatic gearshift controls.

The Auto 1 option automatically shifts between first and fifth gears, depending on the load, when second to fifth gears have been engaged.

The Auto 2 option automatically shifts between second and fifth gears, relative to the load. The operator can also change gear manually using the Down Shift Switch, if required, to suit the terrain on any job site.

The ZW180PL-5 series is equipped with a ride control feature that reduces vibration while the wheel loader is travelling on rough ground or snow. In auto mode, it turns on and off automatically while the wheel loader is in operation.

**Key features**

- Powerful and sustainable
- Ride control
- Automatic gearshift
- New hydraulics circuit
- 5 gear transmission
- Environmentally friendly design
- Smooth lowering of lift arm
- Adjustable kick-out height and auto leveler
Wherever you operate the new ZW180PL-5 wheel loader, high levels of availability are guaranteed. This is thanks to a number of features that allow quick and easy routine maintenance procedures. Daily checks can be made at ground level, for example, because the engine and radiator cover can be opened fully, providing convenient access. The new ZW180PL-5 has been designed to make life easier on the job site, allowing you to work productively and keep downtime to an absolute minimum.
Work for longer with the ZWPL-5 wheel loader

**Easy access**
Hitachi has introduced a range of time-saving features on the new ZWPL-5 wheel loaders, which are designed to make life easier for you on the job site.

Many of the covers on the machine can be opened fully so you can access maintenance points quickly and easily on a daily basis. Many features – such as the greasing points, oil levels and the fuel filters – can be accessed at ground level.

For operation in dust-filled environments, the ZWPL-5 wheel loader can be equipped with an optional anti clogging radiator (wide-pitch fin).

Using the front console you can set the routine service schedule to help prevent breakdowns each time the ignition switch is turned on.

**Easy cleaning**
Quick and easy routine maintenance is essential for you to achieve high levels of productivity on the job site. The new Hitachi ZWPL-5 wheel loaders are capable of working for longer thanks to convenient features, such as the automatic reversible cooling fan.

The fan allows for easy cleaning of the radiator with its one-minute automatic reverse rotation every 30 operating minutes. In moderate working conditions, this can be manually operated for cleaning as necessary.

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**Key features**
- Daily checks from ground level
- Automatic reversible cooling fan
- Quick and easy service access
- Optional anti clogging radiator (wide-pitch fin)
Once you have taken delivery of your ZW180PL-5 wheel loader, we want to ensure that it continues to exceed your expectations on the job site. That’s why we provide extensive support to each of our European dealers so that every one of our customers can receive first-class after-sales service. To further protect your investment, you can choose from a variety of options within the Hitachi Support Chain programme. It gives you the flexibility to create your own service plan from the following key areas – each one represents a link in the chain of service available from Hitachi via your local dealer.
Protect your investment with a variety of after-sales options

Global e-Service
The new ZWPL-5 wheel loader is equipped with a GPRS communication system*. This sends a wide range of machine data to the Hitachi main server. Via the Global e-Service database, you will have remote access to all of this data. All you need is an internet connection and your Global e-Service log-in details.

Global e-Service enables you and your dealer to download and share this data, helping you to remotely manage your fleet. The online facility also helps your dealer to proactively advise you on preventive maintenance and related special offers.

The latest information on the ZWPL-5 wheel loader is available 24/7 and includes operational data, such as the number of working hours, fuel consumption figures, working modes and location. This helps you to reduce running costs, plan jobs efficiently and keep up to date with machine maintenance – to ensure optimum performance and minimal downtime.

Technical support
The professional and highly trained Hitachi service team combines the global expertise and knowledge of Hitachi Construction Machinery with your local language and culture. We take a proactive approach towards customer service by continuously training our dealer personnel, so that the available global knowledge is passed on to each individual technician in our dealer network.

Extended warranty and service contracts
Every new Hitachi model is covered by a full manufacturer’s warranty. However, your ZWPL-5 wheel loader may require extra protection due to severe working conditions or to minimise equipment repair costs. To meet these demands, our dealers offer the option of a unique extended warranty programme (HELP – Hitachi Extended Life Program) and comprehensive service contracts – the most effective way to optimise the performance of your new ZWPL-5 wheel loader.

Parts and Remanufactured Components
Hitachi offers different lines of parts and components to suit your specific needs. In addition to our range of genuine parts, there are other options available:

- If your machines have been working for several years, Hitachi can offer a second line of genuine parts as an attractively priced solution.
- For that highly demanding application or climate, Hitachi provides a line of parts with extra performance.
- When you are looking for an economical solution for preventive replacements, remanufactured components are the best option.

Whatever choice you make, you can be assured of the renowned Hitachi quality and warranty to give you added peace of mind.

Your Hitachi dealer can supply you with more details on each of the above parts lines.

Key features

- Check each of your machines from your office – 24/7
- Have a remote insight into fuel consumption
- Check the current and previous locations and movements of your machine(s)
- See maintenance status and items due for renewal on each of your machines
- Receive e-mail notifications for any machine alerts, unexpected movements and so on

*S The GPRS communication system is standard equipment for new ZW wheel loaders, however, the availability of the communication system depends on licensing regulations in your country. Please contact your Hitachi dealer for more information or to apply for a Global e-Service account.
**ENGINE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</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 intercooled</td>
</tr>
<tr>
<td>Aftertreatment</td>
<td>Diesel Oxidation Catalyst</td>
</tr>
<tr>
<td>No. of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Maximum power</td>
<td>Gross: 129 kW (173 HP) at 2,200 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>ISO 9249, net: 126 kW (169 HP) at 2,000 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>Maximum torque: 800 Nm at 1,500 min⁻¹ (rpm)</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>107 mm X 124 mm</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>6.690 L</td>
</tr>
<tr>
<td>Batteries</td>
<td>2 x 12 V</td>
</tr>
<tr>
<td>Air cleaner</td>
<td>Two elements dry type with restriction indicator</td>
</tr>
</tbody>
</table>

**AXLE AND FINAL DRIVE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive system</td>
<td>Four-wheel drive system</td>
</tr>
<tr>
<td>Front &amp; rear axle</td>
<td>Semi-floating</td>
</tr>
<tr>
<td>Front</td>
<td>Fixed to the front frame</td>
</tr>
<tr>
<td>Rear</td>
<td>Trunnion support</td>
</tr>
<tr>
<td>Reduction and differential gear</td>
<td>Two stage reduction with torque proportional differential</td>
</tr>
<tr>
<td>Oscillation angle</td>
<td>Total 20° (+10°, -10°)</td>
</tr>
<tr>
<td>Final drives</td>
<td>Heavy-duty planetary, mounted inboard</td>
</tr>
</tbody>
</table>

**TIRES**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire size</td>
<td>20.5 R25 (L3)</td>
</tr>
<tr>
<td>Optional</td>
<td>Refer to standard &amp; optional equipment list</td>
</tr>
</tbody>
</table>

**BRAKES**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service brakes</td>
<td>Inboard mounted fully hydraulic 4 wheel wet disc brakes</td>
</tr>
<tr>
<td>Parking brakes</td>
<td>Spring applied, hydraulically released, dry disc type with external output shaft</td>
</tr>
</tbody>
</table>

**STEERING SYSTEM**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Articulated frame steering</td>
</tr>
<tr>
<td>Steering angle</td>
<td>Each direction 40°; total 80°</td>
</tr>
<tr>
<td>Cylinders</td>
<td>Double-acting piston type</td>
</tr>
<tr>
<td>No. x Bore x Stroke</td>
<td>2 x 70 mm x 442 mm</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm and bucket</td>
<td>Controlled by independent control lever</td>
</tr>
<tr>
<td>Arm controls</td>
<td>Four position valve; Raise, hold, lower, float</td>
</tr>
<tr>
<td>Bucket controls</td>
<td>with automatic bucket return-to-dig control</td>
</tr>
<tr>
<td>Main pump</td>
<td>Three position valve; Roll back, hold, dump</td>
</tr>
<tr>
<td>Fan pump</td>
<td>Variable Displacement Axial Plunger Pump</td>
</tr>
<tr>
<td></td>
<td>Maximum flow: 210 L/min at 2,200 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>Maximum pressure: 27.4 MPa</td>
</tr>
<tr>
<td>Hydraulic cylinders</td>
<td>Fixed Displacement Gear Pump</td>
</tr>
<tr>
<td></td>
<td>Maximum flow: 54.8 L/min at 2,200 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>Maximum pressure: 18.2 MPa</td>
</tr>
<tr>
<td>Hydraulic cycle times</td>
<td>Full-flow 15 micron return filter in reservoir</td>
</tr>
<tr>
<td>Lift arm raise</td>
<td>5.9 s (5.7 s)</td>
</tr>
<tr>
<td>Lift arm lower</td>
<td>3.6 s (3.8 s)</td>
</tr>
<tr>
<td>Bucket dump</td>
<td>2.5 s (2.5 s)</td>
</tr>
<tr>
<td>Total</td>
<td>12.0 s (11.8 s)</td>
</tr>
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**SERVICE REFILL CAPACITIES**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>235.0 L</td>
</tr>
<tr>
<td>Engine coolant</td>
<td>28.0 L</td>
</tr>
<tr>
<td>Engine oil</td>
<td>25.0 L</td>
</tr>
<tr>
<td>Torque convertor &amp; transmission</td>
<td>30.0 L</td>
</tr>
<tr>
<td>Front axle differential &amp; wheel hubs</td>
<td>31.0 L</td>
</tr>
<tr>
<td>Rear axle differential &amp; wheel hubs</td>
<td>34.0 L</td>
</tr>
<tr>
<td>Hydraulic oil tank</td>
<td>100.0 L</td>
</tr>
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</table>
**DIMENSIONS & SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Bucket capacity</th>
<th>Bolt-on cutting edge</th>
<th>Weld-on teeth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>Overall length</td>
<td>8 300</td>
<td>8 420</td>
</tr>
<tr>
<td>Overall height</td>
<td>3 285</td>
<td>3 285</td>
</tr>
<tr>
<td>Width over tires</td>
<td>2 490</td>
<td></td>
</tr>
<tr>
<td>Wheel base</td>
<td>3 100</td>
<td></td>
</tr>
<tr>
<td>Ground clearance</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>Tread</td>
<td>1 930</td>
<td></td>
</tr>
<tr>
<td>Bucket width</td>
<td>6 210</td>
<td>6 240</td>
</tr>
<tr>
<td>Overall operating height</td>
<td>5 590</td>
<td>5 590</td>
</tr>
<tr>
<td>Height to bucket hinge pin, fully raised</td>
<td>2 720</td>
<td>2 650</td>
</tr>
<tr>
<td>Dumping clearance 45 degree, full height</td>
<td>1 390</td>
<td>1 510</td>
</tr>
<tr>
<td>Reach, 45 degree dump, full height</td>
<td>110</td>
<td>80</td>
</tr>
<tr>
<td>M Digging depth (Horizontal digging angle)</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td>N Carry height of bucket pin</td>
<td>490</td>
<td>490</td>
</tr>
</tbody>
</table>

**WITH FORK ATTACHMENT**


<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>Tire</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.5 R25(L3)XHA2</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
<td>±0</td>
</tr>
<tr>
<td>20.5 R25(L5)LXLD D2A</td>
<td>+460</td>
<td>+290</td>
<td>+260</td>
<td>+30</td>
<td>+25</td>
</tr>
<tr>
<td>20.5 R25(L5)XMINE D2</td>
<td>+620</td>
<td>+390</td>
<td>+350</td>
<td>+25</td>
<td>+35</td>
</tr>
<tr>
<td>Belly guard</td>
<td>+160</td>
<td>+110</td>
<td>+100</td>
<td>±0</td>
<td>±0</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.
**EQUIPMENT**

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**OPERATOR'S STATION**
- Adjustable steering column with POP-UP
- Air suspension seat with headrest and heater: adjustable for damper, armrest angle, fabric, fore-aft position, headrest height and angle, high back, inclination of the seat, lumbar support, reclining angle, seat depth, weight-height
- AM/FM radio with AUX for digital audio player
- Ashtray, cigar lighter
- Auto control air conditioner
  - with single intake filter
  - with double intake filters
- Coat hook
- Front/Rear defroster
- Glove compartment
- Rear view camera & monitor
- Rear under mirror
- Rear view mirrors
  - Inside (2)
  - Outside (2)
  - Outside (Heated, 2)
- Retractable seat belt, 50 mm
- ROPS (ISO 3471), FOPS (ISO 3449): multi-plane isolation mounted for noise, vibration reduction
- Rubber floor mat
- Storage
  - Cup holder
  - Digital audio player holder
  - Document holder
  - Hot & cool box
  - Seatback pocket
- 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

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**LIGHTS**
- Brake & tail lights
- Clearance lights
- Headlights
- Rotating lamp
- Turn signals with hazard switch
- Work lights
  - Front lights on cab (2)
  - Rear lights on rear grille side cover (2)
  - Additional front lights on cab (2)
  - Rear lights on cab (2)

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**POWER TRAIN**
- Automatic transmission with load sensing system
- Clutch cut position switch
- Differential
- TPD (Torque Proportioning Differential, front and rear)
- LSD (Limited Slip Differential, front and rear)
- Driving speed limiter (20km/h)
- DSS (Down Shift Switch)
- Forward/Reverse lever
- Forward/Reverse selector switch
- Power mode switch
- Quick power switch
- Shift change delay mode switch
- Travel mode selector (Auto1-Auto2)
- 1st speed fixed switch

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**ENGINE**
- Air intake
  - Rain cap
  - Pre-cleaner (Cyclone type)
  - Pre-cleaner (Turbo II)
- Air filter double elements
- Cartridge-type engine oil filter
- Cartridge-type fuel pre-filter
- Cartridge-type fuel main filter
- Engine oil remote drain

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**COOLING SYSTEM**
- Automatic reversible cooling fan with heat sensing
- Fan guard
- Radiator
  - Standard fin pitch radiator
  - Anti Clogging Radiator (Wide pitch fin)

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**ELECTRICAL SYSTEM**
- Backup alarm
- Large capacity batteries (155 AH-900 A)
- Battery disconnect switch
- Engine auto shut-down control system
- Immobilizer key
- 12 V power outlet

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**MONITORING SYSTEM**
- LCD monitor display: clock, ECO, F-N-R/Shift position, hold, hour meter, odometer, replacement intervals, ride control, speedometer,
- Gauge: coolant temperature, fuel, transmission oil temperature
- Warning lights: brake oil low pressure, engine oil low pressure, hydraulic oil level, steering oil low pressure, overheat
- Indicator lights: air filter restriction, axle oil temperature, clearance lights, control lever lock, discharge warning, emergency steering, engine warning, fan reverse, fuel filter restriction, forward/reverse selector switch, high beam, hydraulic oil temperature, maintenance, parking brake, power mode, preheat, seat belt, service, transmission warning, transmission oil temperature, turn signal, water separator, work lights
BUCKET SELECTION GUIDE

Material Density

<table>
<thead>
<tr>
<th>Material Density</th>
<th>kg / m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³</td>
<td>1 000</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>General purpose 2.5</td>
<td>100%</td>
</tr>
<tr>
<td>General purpose 2.6</td>
<td>100%</td>
</tr>
<tr>
<td>General purpose 2.7</td>
<td>100%</td>
</tr>
<tr>
<td>General purpose 2.8</td>
<td>100%</td>
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<tr>
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<td>100%</td>
</tr>
<tr>
<td>General purpose 3.1</td>
<td>100%</td>
</tr>
<tr>
<td>Materials to be handled</td>
<td></td>
</tr>
<tr>
<td>Scrap wood</td>
<td>100%</td>
</tr>
<tr>
<td>Compost / Snow</td>
<td>100%</td>
</tr>
<tr>
<td>Sand / Gravel / Sand and clay</td>
<td>100%</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

Bucket auto leveler (Automatic return to dig control)

Control lever
- for 3 spools control valve
- 2 levers & AUX lever for 3rd function
- Outside layout pattern (Bucket - Liftarm - 3rd)
  - MF lever & AUX lever for 3rd function

Control lever lock switch
Dual lift arm auto leveler
Hydraulic filters
Lift arm float system
Quick coupler switch
Reservoir sight gauge
Ride control system (OFF-AUTO type)

**TIRES**

20.5 R25 (L3)06A2
20.5 R25 (L3)0LD D2A
20.5 R25 (L3)0MNE D2

**BRAKE SYSTEM**

Front & rear independent brake circuit
Inboard mounted fully hydraulic 4 wheel disc
Spring applied/Hydraulic-released parking brake

**MISCELLANEOUS**

Articulation lock bar
Belly guard (Bolt on type)
Bucket cutting edge protection
Drawbar with locking pin
Emergency steering
Fenders

for 20.5 R25
- Front & full covered rear fenders with mud flaps

Global e-Service
Lift arm
Parallel lift arm
Lift & tie down hooks
On board information controller
Pilot proof
- Battery cover with locking bracket
- Lockable engine cover
- Lockable fuel refilling cap
Quick coupler (Volvo compatible)
Rear licence plate bracket
Road homologation
  - German road homologation kit: bucket cutting edge protection, 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
Thief prevention system*
Wheel blocks
  - 1 350 kg counterweight + 640 kg additional counterweight

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.
* Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.
Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

Hitachi Environmental Vision 2025

The Hitachi Group released the Environmental Vision 2025 to curb annual carbon dioxide emissions. The Group is committed to global production while reducing environmental impact in life cycles of all products, and realizing a sustainable society by tackling three goals — prevention of global warming, recycling of resources, and enhancement of ecosystem.

Reducing Environmental Impact by New ZW

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZW utilizes lots of technological advances, including the new standard mode which optimize fuel efficiency. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

*Life Cycle Assessment – ISO 14040

Prior to operating this machine, including 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, customer installed and modified parts, optional parts and all standard equipment with some differences in color and features. Before use, read and understand the Operator’s Manual for proper operation.