## **HITACHI**

Reliable solutions

# **ZW310**





### **WHEEL LOADER**

Model Code: ZW310-5B

Engine Power: 220 kW (295 HP)

Operating Weight: 24 160 - 24 440 kg (53 260 - 53 880 lb)

Bucket ISO Heaped: 3.4 - 4.5 m<sup>3</sup> (4.4 - 5.9 yd<sup>3</sup>)



# **WALK AROUND**

The Hitachi ZW310-5 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 ZW310-5, we have incorporated easy maintenance features into its design. We also offer the flexible Hitachi Support Chain after-sales program to customers who wish to further enhance its uptime and protect their investment

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#### Advanced technology

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

#### Lower fuel costs

The ZW-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 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.

#### Sustainable operation

A muffler filter captures air pollutants, which are automatically burnt thanks to an oxidation catalyst and exhaust temperature control.

#### Powerful engine

The 12.910 liter (788 in³) sixcylinder 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.

#### Spacious cab

The 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 a filter is available for industrial waste job sites. Sound insulation reduces noise levels.

#### Easily accessible information

The large multi-function LCD screen displays information at a glance and the adjustment function to the operator.

#### Operator safety

A pillar-less windshield and large sun visor have enhanced visibility levels from the operator's seat.

#### Controlled movement

A clutch cut-off system allows for smooth operation when the ZW-5 wheel loader is loading.

### Quick and easy service access The 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.





# COMFORT

Operator comfort was one of the top priorities for the designers of the ZW-5 wheel loader range. In order to enhance the overall user experience, they made several important changes to the cab of the previous models. The benefits of these adjustments include greater visibility and a more spacious working environment. Several practical and user-friendly features have also been added to help you get the job done easily and comfortably, and enjoy your working day.









# For operator comfort, the ZW-5 series is second to none







#### Take a seat

Hitachi has prioritised operator comfort in the design of the ZW-5 range of 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 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 ZW-5 wheel loaders to make you feel more relaxed wherever you are.

An effective air conditioning system regulates the temperature within the cab. An 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 ZW-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 tumbler.

#### 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/WB 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. The new multi-function LCD monitor has a large seven-inch screen and it provides a wide range of useful technical information with multi-lingual support.

### **Key features**

- Air-suspension seat
- Expansive leg room
- Ergonomically designed control panel
- New color LCD monitor

- Effective air conditioning
- Tilting telescopic and pop-up steering column
- Easy access via sloped ladder and wide steps
- AUX input for MP3 player

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## **ADVANCED TECHNOLOGY**

The ZW-5 wheel loader range is able to exceed previous levels of performance and productivity due to the advanced technology incorporated within it. Such technology has been developed by Hitachi over more than 40 years, and has helped to build our global reputation for manufacturing high-quality construction equipment. Several features on the ZW310-5 have been designed to reduce its environmental impact, lower fuel consumption and enhance its overall performance on any job site.

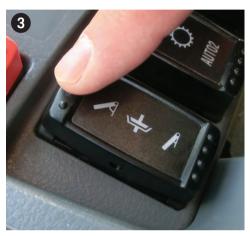




# A superior performance is guaranteed







#### Simple work mode 1

The ZW-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.

# Engine Speed Cont

#### Quick power switch 2



The operator can boost the power of the ZW-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**

**Engine RPM** 

- Simple work mode
- Quick power switch

Clutch cut-off



## **ENVIRONMENTAL AWARENESS**

The design of the ZW310-5 considers the environment in two ways. Firstly, it was built to comply with U.S. EPA Tier 4 Interim emission standards and has a range of features to boost fuel efficiency, which will also help to reduce your running costs. Secondly, it has been designed to provide greater all-round visibility of the job site, which gives it a direct impact on safety in its immediate surroundings, and helps to ensure the smooth operation of any project.







# The ZW310-5 contributes to a cleaner, safer environment









#### A cleaner environment

The ZW-5 wheel loader range epitomises our efforts to minimise the impact of construction machinery on the environment in compliance with U.S. EPA Tier 4 Interim.

The ZW-5 has been fitted with a muffler filter to capture air pollutants, which is automatically burnt thanks to an oxidation catalyst and exhaust temperature control. The variable geometry turbocharger – that encourages optimal combustion – and high volume-cooled EGR (Exhaust Gas Recirculation) also help to reduce nitrous oxide levels.

The auto-engine shutdown function helps to prevent fuel wastage by stopping the engine while the wheel loader is long idling. In addition, all resin parts on the ZW-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 ZW-5 can relax with the knowledge that he is working in a safer environment. The 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 rear-view monitor allows the operator to see right behind the machine. The color display in the front console 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 ZW-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
- Muffler filter and ECO display
- Pillar-less windshield

- Large sun visor
- Both sides of counterweight visible
- Rear-view monitor
- Shift-up delay to third gear



# **PRODUCTIVITY**

The ZW310-5 wheel loader has been built to deliver high levels of productivity, with a smaller impact on the environment, ensuring a quick return on your initial investment and having a direct impact on the profitability of your business. It is easier to maneuver than the previous model, and the latest hydraulics and gearshift systems are guaranteed to have a positive impact on efficiency.







# Designed to improve efficiency on the job site







#### Increased efficiency

We have designed the latest range of ZW-5 wheel loaders 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 ZW-5's high productivity levels. The lowering of the lift arm stops smoothly thanks to the flow control, resulting in fewer vibrations and less operator fatigue. The anti-drift valve blocks internal leaking of oil and stops creeping of the lift arm.

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

#### **Enhanced maneuverability**

The maneuverability of the ZW-5 wheel loader series has been enhanced by automatic gearshift controls.

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

The Auto 2 option automatically shifts between second and fourth 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 ZW-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

- Smooth lowering of lift arm
- Environmentally friendly design
- Anti-drift system
- Adjustable kick-out height and auto leveler



# MAINTENANCE

In order to get the most from your machine, it's important to carry out routine checks and maintenance procedures. The quicker and easier it is for you to complete these tasks, the less likely it is for them to be overlooked. That's why the ZW310-5 has been designed with several features that allow for convenient cleaning and maintenance. So wherever your ZW310-5 is working, you can be assured of optimum levels of productivity and availability.

# Work for longer with the ZW-5 wheel loader







#### **Easy access**

Hitachi has introduced a range of time-saving features on the ZW-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.

Using the technology within the multi-function LCD monitor 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 Hitachi ZW 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. Dust from the radiator can be easily cleared through the slide opening of the oil cooler.

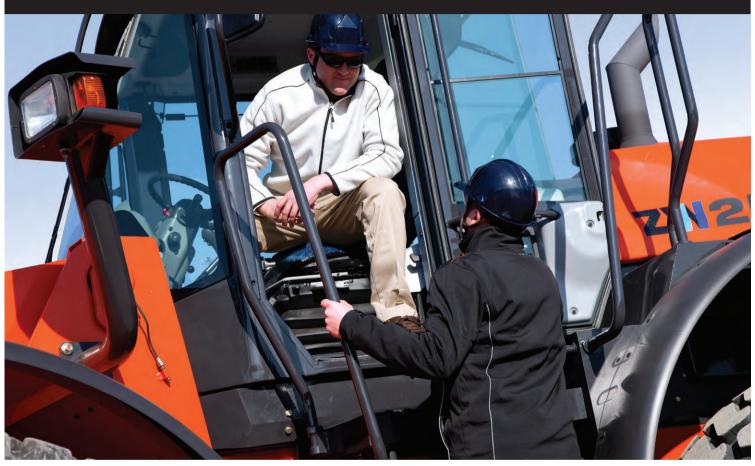
### **Key features**

- Daily checks from ground level
- Automatic reversible cooling fan
- Quick and easy service access



# **SUPPORT CHAIN**

Once you have taken delivery of your ZW310-5 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 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 program. 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 ZW-5 wheel loader is equipped with a satellite 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 ZW-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 Hitachi model is covered by a full manufacturer's warranty. However, your ZW-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 program and comprehensive service contracts – the most effective way to optimise the performance of your ZW-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:

- 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.



\* The satellite communication system is standard equipment for 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.

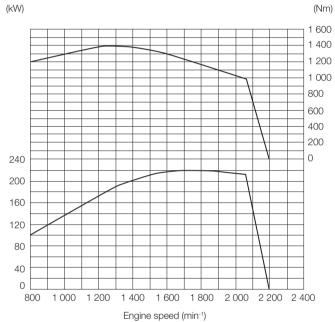
### **Key features**

- 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

### **SPECIFICATIONS**

ENGINE	
Model	Hino E13C-VV
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	Muffler filter
No. of cylinders	6
Maximum power	
SAE J1995/ISO14396, gross	220 kW (295 HP) at 1 800 min-1 (rpm)
SAE J1349/ISO 9249, net	213 kW (285 HP) at 1 800 min-1 (rpm)
Maximum torque	1 400 Nm at 1 300 min <sup>-1</sup> (rpm)
Bore and stroke	137 mm X 146 mm (5.4 in X 5.7 in)
Piston displacement	12.910 L (788 in <sup>3</sup> )
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator

Engine torque Engine output



#### POWER TRAIN

Transmission	Torque converter, countershaft type powershi with computer-controlled automatic shift and manual shift features included
Torque converter	Three element, single stage, single phase
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* Forward / Re	everse
1st	6.6 / 6.6 km/h [7.1 / 7.1 km/h]
	(4.1 / 4.1 mph [4.4 / 4.4 mph])
2nd	11.3 / 11.3 km/h [12.2 / 12.2 km/h]
	(7.0 / 7.0 mph [7.6 / 7.6 mph])
3rd	22.6 / 22.6 km/h [22.6 / 22.6 km/h]
	(14.0 / 14.0 mph [14.0 / 14.0 mph])
4th	37.0 / 37.0 km/h [37.0 / 37.0 km/h]
	(23.0 / 23.0 mph [23.0 / 23.0 mph])

\*With 26.5 R25 (L3) tires [ ]: Data at Power Mode

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 limited slip differential		
Oscillation angle	Total 24° (+12°,-12°)		
Final drives	Heavy-duty planetary, mounted inboard		

TIRES	
Tire size Optional	. 26.5 R25 (L3) . Refer to standard & optional equipment list
BRAKES	
	Inboard mounted fully hydraulic 4 wheel wet obrake. Front & rear independent brake circuit.     Spring applied, hydraulically released, located transmission.
	Transfill Colors
STEERING SYSTEM	
Steering angle Cylinders	<ul> <li>Articulated frame steering</li> <li>Each direction 37°; total 74°</li> <li>Double-acting piston type</li> <li>2 x 90 mm x 450 mm (2 x 3.5 in x 17.7 in)</li> </ul>
HYDRAULIC SYSTEM	
Arm controls Bucket controls with auto	rolled by independent control lever . Four position valve; Raise, hold, lower, float matic bucket return-to-dig control . Three position valve; Roll back, hold, dump
Main pump (Serve as stee	
Maximum flow	. Fixed Displacement Gear Pump . 87 L/min (23.0 gal/min) at 2 100 min <sup>-1</sup> (rpm) . 15.2 MPa (155 kgf/cm²)/(2204 psi)
Hydraulic cylinders	V O P-V P-94
Туре	Double acting type Arm: 2 x 145 mm x 884 mm (2 x 5.7 in x 34.8 in) Bucket: 1 x 180 mm x 525 mm (1 x 7.1 in x 20.7 in)
Filters	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	

#### SERVICE REFILL CAPACITIES

[ ]: Data at Power Mode

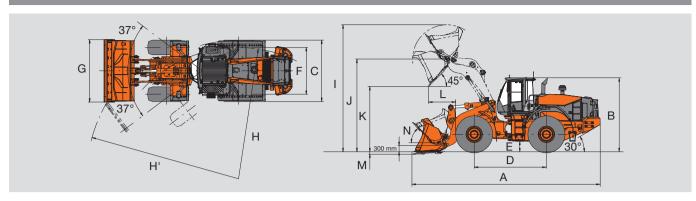
Lift arm raise ...... 6.3 s [6.0 s]

Lift arm lower ...... 4.3 s [4.1 s] Bucket dump ...... 1.1 s [1.1 s]

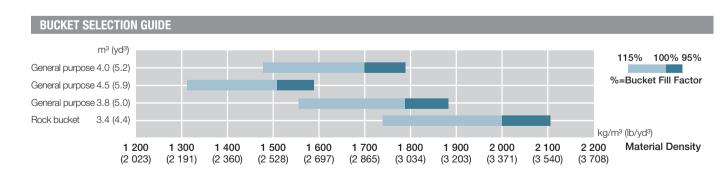
Total ...... 11.7 s [11.2 s]

Fuel tank	375 L (99.1 gal)
Engine coolant	57.0 L (15.1 gal)
Engine oil	45.0 L (11.9 gal)
Torque convertor & transmission	51.0 L (13.5 gal)
Front axle differential & wheel hubs	48.0 L (12.7 gal)
Rear axle differential & wheel hubs	48.0 L (12.7 gal)
Hydraulic oil tank	137 L (36.2 gal)

#### DIMENSIONS & SPECIFICATIONS



				Standa	ard arm		
E	Bucket type		General purpose			Rock bucket	
<u> </u>			Bolt-on Bolt-on cutting edge		Bolt-on teeth	Bolt-on teeth	
Bucket capacity	ISO heaped	m³ (yd³)	4.0 (5.2)	4.5 (5.9)	3.8 (5.0)	3.4 (4.4)	
bucket capacity	ISO struck	m³ (yd³)	3.5 (4.6)	4.0 (5.2)	3.3 (4.3)	2.9 (3.8)	
A Overall length		mm (ft)	8 930 (29.3)	9 040 (29.7)	9 070 (29.8)	9 085 (29.8)	
B Overall height		mm (ft)	3 530 (11.6)				
C Width over tires		mm (ft)	2 930 (9.6)				
D Wheel base		mm (ft)	3 450 (11.3)				
E Ground clearance		mm (in)	505 (19.9)				
F Tread		mm (ft)		2 23	0 (7.3)		
G Bucket width		mm (ft)	3 100 (10.2)	3 100 (10.2)	3 115 (10.2)	3 115 (10.2)	
H Turning radius (Center	line of outside tire)	mm (ft)	6 270 (20.6)				
H' Loader clearance circle, bucket in carry position		mm (ft)	7 310 (24.0)	7 340 (24.1)	7 360 (24.1)	7 365 (24.2)	
I Overall operating heig	ht	mm (ft)	5 990 (19.7)	6 095 (20.0)	5 990 (19.7)	5 790 (19.0)	
J Height to bucket hinge pin, fully raised		mm (ft)	4 425 (14.5)				
K Dumping clearance 48	5 degree, full height	mm (ft)	3 165 (10.4)	3 085 (10.1)	3 045 (10.0)	3 035 (10.0)	
L Reach, 45 degree dur	mp, full height	mm (ft)	1 250 (4.1)	1 330 (4.4)	1 330 (4.4)	1 340 (4.4)	
M Digging depth (Horizo	ntal digging angle)	mm (in)	115 (4.5)	115 (4.5)	145 (5.7)	145 (5.7)	
N Max. roll back at carry	position	deg			50		
Static tipping load *	Straight	kg (lb)	19 190 (42 310)	18 990 (41 870)	19 480 (42 950)	18 970 (41 820)	
static tipping load	Full 37° turn	kg (lb)	16 750 (36 930)	16 570 (36 530)	17 000 (37 480)	16 560 (36 510)	
Breakout force		kgf (lbf)	21 800 (48 060)	20 200 (44 530)	23 600 (52 030)	23 300 (51 370)	
		kN	214	198	232	229	
Operating weight *		kg (lb.)	24 300 (53 570)	24 400 (53 790)	24 160 (53 260)	24 440 (53 880)	



Note: All dimensions, weight and performance data based on ISO 6746-1:1987,ISO 7131:2009 and ISO 7546:1983
\*: Static tipping load and operating weight marked with\* include 26.5 R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## **EQUIPMENT**

OPERATOR'S STATION Adjustable steering column with POP-UP Air suspension seat with fabric, adjustable for damper, inclination of the seat, seat depth, weight-height, fore-aft position, reclining angle, armrest angle, lumbar support AM/FM/WB radio with AUX input • • Ashtray, cigar lighter Auto control air conditioner with single intake filter Coat hook • Front/Rear defroster • Glove compartment • Rear view camera & monitor Rear view mirrors • Inside (2) Outside (Heated, 2) • • Retractable seat belt, 75 mm (3.0 in) ROPS (ISO3471), FOPS (ISO3449): multi-plane isolation mounted for noise, • vibration reduction • Rubber floor mat Storage Cup holder Document holder • Hot & cool box • Sun visor • Textured steering wheel with spinner knob Tinted safety glass: front windshield: laminated, others: tempered Windshield washers for front and rear • • Windshield wipers for front and rear

ELECTRICAL SYSTEM	
Auto-engine shutdown control system	•
Backup alarm	•
Batteries	
Standard batteries (120AH-760A)	•
Battery disconnect switch	•
12V power outlet	•

COOLING SYSTEM	
Automatic reversible cooling fan with heat sensing	•
Fan guard	•
Radiator	
Standard fin pitch radiator	•

..... Standard equipment

O ..... Optional equipment

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

POWER TRAIN	
Automatic transmission with load sensing system	•
Clutch cut position switch	•
Differential	
LSD (Limited Slip Differential, front and rear)	•
DSS (Down Shift Switch)	•
Forward/Reverse lever	•
Power mode switch	•
Quick power switch	•
Travel mode selector (Auto1-Auto2)	•

ENGINE	
Air intake	
Pre-cleaner (Cyclone type)	•
Air filter double elements	•
Engine oil filter	•
Engine oil remote drain	•
Fuel pre-filter	•
Fuel main filter	•

MONITORING SYSTEM	
Gauge: coolant temperature, fuel	•
Indicator lights: clearance lights, control lever lock, fuel level, high beam, parking brake, preheat, turn signals, work lights	•
Indicator on multifunction monitor: air conditioner display, brake oil pressure gauge, clock, clutch cut off indicator, dual lift arm auto leveler, ECO indicator, fan reverse indicator, F-N-R/Shift position, hold display, hour meter, muffler filter, odometer, power mode indicator, ride control indicator, seat belt, speedometer, tachometer, transmission auto-shifting indicator, transmission oil temperature	•
Warning lights: air filter restriction, brake oil low pressure, communication system error, discharge warning, engine oil low pressure, engine warning, hydraulic oil level, low steering oil pressure, overheat, transmission warning	•

BRAKE SYSTEM	
Front & rear independent brake circuit	•
Inboard mounted fully hydraulic 4 wheel wet disc	•
Spring-set/Hydraulic-released parking brake	•

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

HYDRAULIC SYSTEM	
Bucket auto leveler (Automatic return to dig control)	•
Control lever	
for 2 spools control valve	
2 levers	
Control lever lock switch	•
Coolant reservoir sight gauge	•
Dual lift arm auto leveler	•
Hydraulic filters	•
Lift arm float system	•
Ride control system (OFF-AUTO type)	•
TIRES	
26.5 R25 (L3)	

MISCELLANEOUS	_
Articulation lock bar	•
Belly guard (Bolt on type)	0
Counterweight, built-in	•
Drawbar with locking plate	•
Emergency steering	•
Fenders	
for 26.5R25	
Front & full covered rear fenders with mud flaps	•
Global e-Service	•
Lift arm	
Standard lift arm	•
Lift & tie down hooks	•
On board information controller	•
Pilfer proof	
Battery cover with locking bracket	•
Lockable engine cover	•
Lockable fuel refilling cap	•



#### **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 ZW

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA\*. ZW utilizes lots of technological advances, including the 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 1404



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.

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llustrations 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.

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