

# ZW180<sub>PL</sub>



## 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 m<sup>3</sup>



# WALK AROUND

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A comfortable work space enhances operational efficiency.

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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.

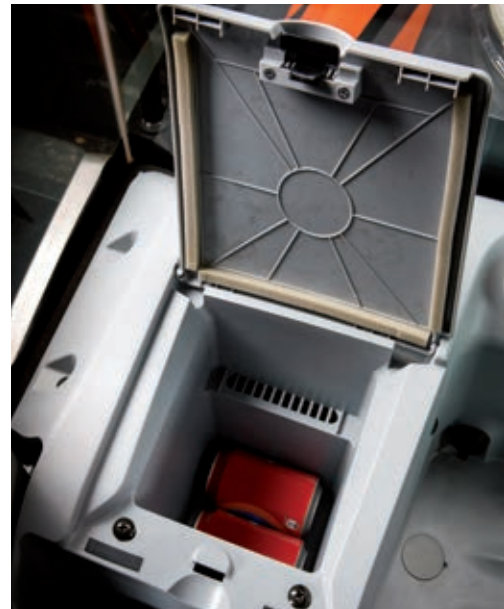


The photos in the brochure are taken using the machines for Europe and Japan. The specification in Australia may be different from that of the photos.



# 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. The inclusion of an MP3 dock allows you to connect your personal MP3 player.

## Key features

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



# 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

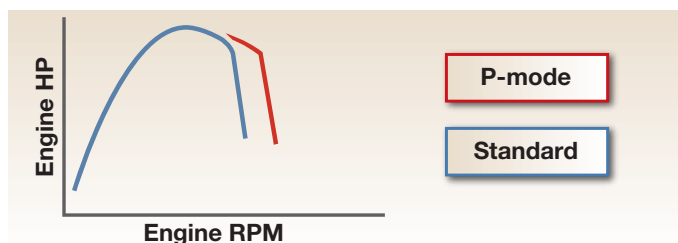
The operator can boost the power of the ZWPL-5 wheel loader at the push of a button. The Quick power switch changes the mode from Standard to P and can be used when the machine is travelling uphill with a full load or when greater breakout force is required.



## 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



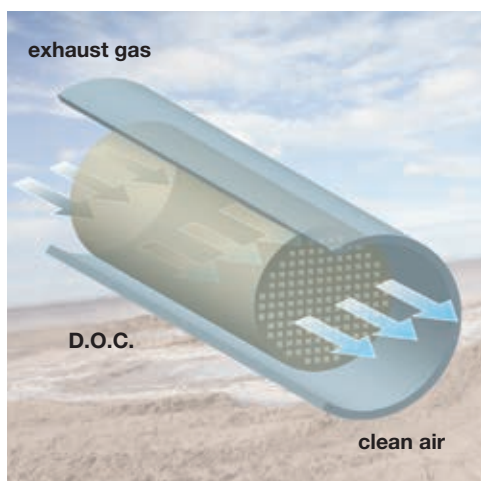
# ENVIRONMENTAL AWARENESS

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 US EPA Tier 4 Interim / EU Stage IIIB 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 US EPA Tier 4 Interim / EU Stage IIIB emission regulations. The variable geometry turbocharger – that encourages optimal combustion – and cooled-EGR (Exhaust Gas Recirculation) helps 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 rear-view monitor 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)

■ DOC (Diesel Oxidation Catalyst)

■ ECO display

■ Pillar-less windshield

■ Large sun visor

■ Both sides of counterweight visible

■ Rear-view monitor

■ Shift-up delay to third gear



# PRODUCTIVITY

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 leveller



# MAINTENANCE

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.





# 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 wide-pitch fin radiator to prevent clogging.

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.

## Key features

- Daily checks from ground level
- Automatic reversible cooling fan
- Quick and easy service access
- Optional wide-pitch fin radiator



# SUPPORT CHAIN

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. We provide extensive support to each of our Hitachi 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. Giving 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 ZW180PL-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 ZW180PL-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 ZW180PL-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 ZW180PL-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

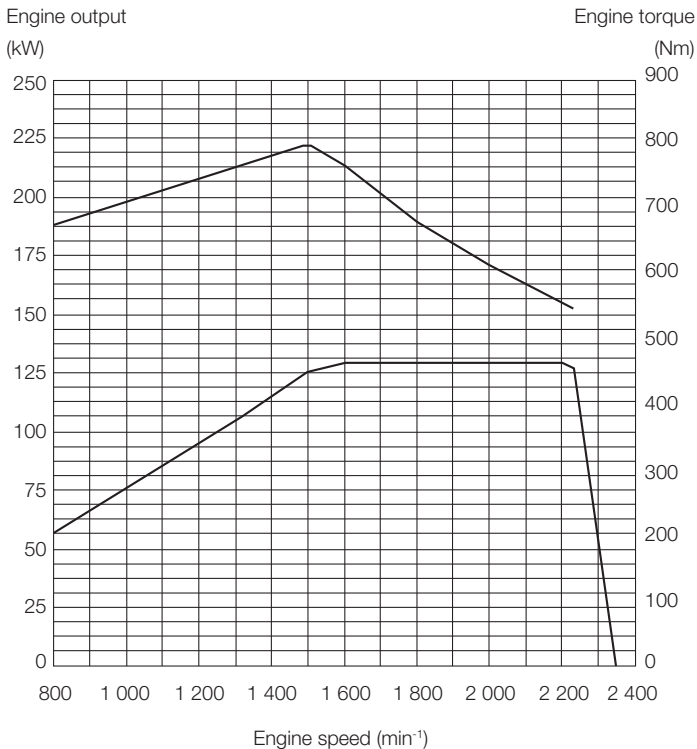
- Check each of your machines from your office – 24/7
- Have a remote insight into fuel consumption
- Check the current and previous locations and movements of your machine(s)

- 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

# SPECIFICATIONS

## ENGINE

Model .....	CUMMINS QSB6.7
Type .....	4-cycle water-cooled, direct injection
Aspiration .....	Turbocharger and intercooled
Aftertreatment .....	Diesel Oxidation Catalyst
No. of cylinders .....	6
Maximum power	
Gross .....	129 kW (173 HP) at 2 200 min <sup>-1</sup> (rpm)
ISO 9249, net .....	126 kW (169 HP) at 2 000 min <sup>-1</sup> (rpm)
Maximum torque .....	800 Nm at 1 500 min <sup>-1</sup> (rpm)
Bore and stroke .....	107 mm X 124 mm
Piston displacement .....	6.690 L
Batteries .....	2 x 12 V
Air cleaner .....	Two elements dry type with restriction indicator



## POWER TRAIN

Transmission .....	Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included.
Torque converter .....	Three elements, single stage, single phase
Main clutch .....	Wet hydraulic, multi-disc type
Cooling method .....	Forced circulation type
Travel speed* Forward / Reverse	
1st .....	5.9 / 6.2 km/h (6.3 / 6.6 km/h)
2nd .....	11.5 / 12.1 km/h (12.2 / 12.9 km/h)
3rd .....	17.4 / 26.5 km/h (18.5 / 28.3 km/h)
4th .....	25.3 / — km/h (27.0 / — km/h)
5th .....	38.5 / — km/h (38.5 / — km/h)
*With 20.5 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 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
Parking brakes .....	Spring applied, hydraulically released, dry disc type with external output shaft

## STEERING SYSTEM

Type .....	Articulated frame steering
Steering angle .....	Each direction 40° ; total 80°
Cylinders .....	Double-acting piston type
No. x Bore x Stroke .....	2 x 70 mm x 442 mm

## HYDRAULIC SYSTEM

Arm and bucket are controlled by independent control lever  
 Arm controls ..... Four position valve ; Raise, hold, lower, float  
 Bucket controls with automatic bucket return-to-dig control ..... Three position valve ; Roll back, hold, dump

Main pump (Serve as steering pump)	
.....	Variable Displacement Axial Plunger Pump
Maximum flow .....	210 L/min at 2 200 min <sup>-1</sup> (rpm)
Maximum pressure ...	27.4 MPa

Fan pump	
.....	Fixed Displacement Gear Pump
Maximum flow .....	54.8 L/min at 2 200 min <sup>-1</sup> (rpm)
Maximum pressure ...	18.2 MPa

Hydraulic cylinders	
Type .....	Double acting type
No. x Bore x Stroke ...	Arm : 2 x 125 mm x 765 mm Bucket : 2 x 110 mm x 955 mm
Filters .....	Full-flow 15 micron return filter in reservoir

Hydraulic cycle times	
Lift arm raise .....	5.9 s (5.7 s)
Lift arm lower .....	3.6 s (3.6 s)
Bucket dump .....	2.5 s (2.5 s)
Total .....	12.0 s (11.8 s)

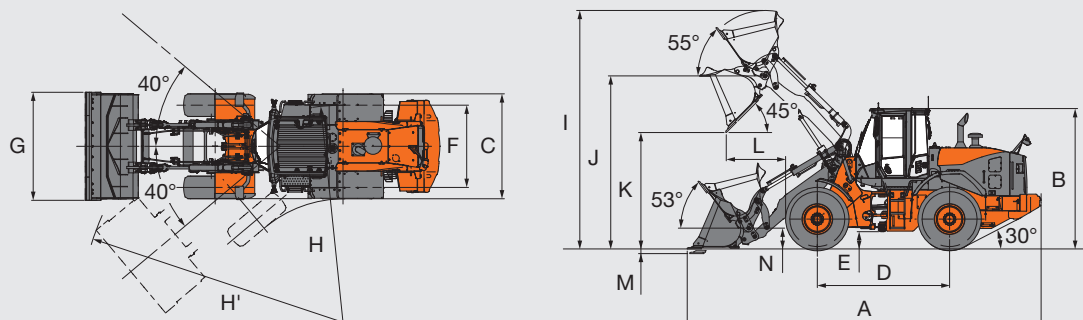
( ): Data at Power Mode

## SERVICE REFILL CAPACITIES

Fuel tank .....	235.0 L
Engine coolant .....	28.0 L
Engine oil .....	25.0 L
Torque convertor & transmission .....	30.0 L
Front axle differential & wheel hubs .....	31.0 L
Rear axle differential & wheel hubs .....	34.0 L
Hydraulic oil tank .....	100.0 L



## DIMENSIONS & SPECIFICATIONS



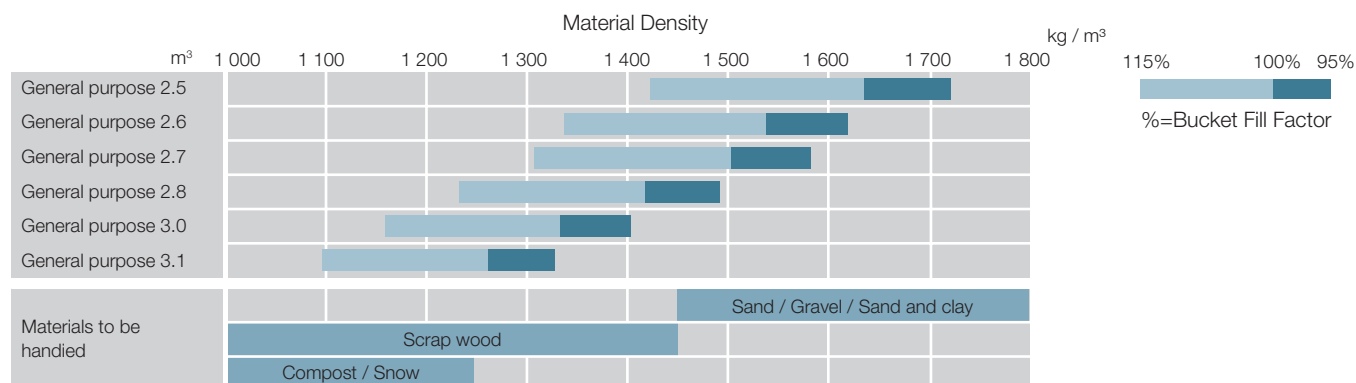
			General purpose					
			Bolt-on cutting edge			Weld-on teeth		
Bucket capacity	ISO heaped	m³	2.6	2.8	3.1	2.5	2.7	3.0
	ISO struck	m³	2.3	2.4	2.7	2.2	2.3	2.6
A Overall length		mm	8 300	8 350	8 450	8 420	8 470	8 570
B Overall height		mm	3 285					
C Width over tires		mm	2 490					
D Wheel base		mm	3 100					
E Ground clearance		mm	400					
F Tread		mm	2 050					
G Bucket width		mm	2 535					
H Turning radius (Centerline of outside tire)		mm	5 240					
H' Loader clearance radius, bucket in carry position		mm	6 210	6 230	6 250	6 240	6 250	6 280
I Overall operating height		mm	5 590	5 650	5 720	5 590	5 650	5 720
J Height to bucket hinge pin, fully raised		mm	4 050					
K Dumping clearance 45 degree, full height		mm	2 720	2 690	2 620	2 650	2 610	2 540
L Reach, 45 degree dump, full height		mm	1 390	1 420	1 490	1 510	1 540	1 610
M Digging depth (Horizontal digging angle)		mm	110	110	110	80	80	80
N Carry height of bucket pin		mm	490					
Bucket weight		kg	1 290	1 330	1 390	1 190	1 230	1 290
Static tipping load *	Straight	kgf	10 810	10 770	10 610	11 050	10 990	10 830
	Full 40 degree turn	kgf	9 310	9 260	9 120	9 520	9 470	9 320
Breakout force		kgf	11 400	11 000	10 300	12 300	11 800	11 000
		kN	112	108	101	120	116	108
Operating weight *		kg	15 730	15 770	15 830	15 630	15 670	15 730

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997, ISO 7546:1983 and ISO 8313:1989

\*: Static tipping load and operating weight marked with\* include 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.

## BUCKET SELECTION GUIDE



# EQUIPMENT

## 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 double intake filter	●
Coat hook	●
Front/Rear defroster	●
Rear view camera & monitor	●
Rear view mirrors	
Inside (2)	●
Outside (2)	●
Retractable seat belt, 50 mm	●
ROPS (ISO3471), FOPS Level II (ISO3449) compliant cab: multi-plane isolation mounted for noise, vibration reduction	●
Rubber floor mat	●
Storage	
Cup holder	●
Digital audio player holder	●
Document holder	●
Glove compartment	●
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	●

## ELECTRICAL SYSTEM

Backup alarm	●
Battery disconnect switch	●
Engine auto shut-down control system	○
Large capacity batteries (155 AH-900A)	●
12 V power outlet	●

## COOLING SYSTEM

Automatic reversible cooling fan with heat sensing	●
Fan guard	●
Radiator	
Standard fin pitch radiator	●
Wide fin pitch radiator	○

● ..... Standard equipment

○ ..... Optional equipment

## LIGHTS

Brake & tail lights	●
Clearance lights	●
Headlights	●
Rotating beacon	●
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)	●

## 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)	○
DSS (Down Shift Switch)	●
Forward/Reverse lever	●
Forward/Reverse selector switch (MF lever)	●
Power mode switch	●
Quick power switch	●
Shift change delay mode switch	●
Travel mode selector (Auto1-Auto2)	●
1st speed fixed switch	●

## ENGINE

Air filter double elements	●
Cartridge-type fuel main filter	●
Cartridge-type engine oil filter	●
Cartridge-type fuel pre-filter	●
Engine oil remote drain	●
Pre-cleaner (Sy-Klone)	●

## MONITORING SYSTEM

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



## BRAKE SYSTEM

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

## HYDRAULIC SYSTEM

Bucket auto leveler (Automatic return to dig control)	●
Control lever	

for 3 spools control valve

MF lever & AUX lever for 3rd function



●

2 levers & AUX lever for 3rd function  
- Outside layout pattern  
(Bucket - lift arm - 3rd)



○

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)	●
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## MISCELLANEOUS

Articulation lock bar	●
Belly guard (Bolt on type)	●
Counterweight, built-in & additional	●
Drawbar with locking pin	●
Emergency steering	●
Front & full covered rear fenders with mud flaps (for 20.5 R25)	●
Global e-Service	●
Lift arm	
Parallel lift arm	●
Lift & tie down hooks	●
Pilfer proof	
Battery cover with locking bracket	●
Lockable engine cover	●
Lockable fuel refilling cap	●
Quick coupler (ISO23727)	●



**Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services which contribute to the businesses of our customers worldwide.**

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## Hitachi Environmental Vision 2050

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Our Environmental Vision envisions a low-carbon society; a resource efficient society; a harmonized society with nature. To achieve such a sustainable society, we have established a set of long-term environmental targets called Hitachi Environmental Innovation 2050.

### Reducing Environmental Impact by the New ZWs

Hitachi reduces carbon emissions for global warming prevention according to LCA\*. The new ZWs exemplify the Group's commitment to the environment through features, such as the new standard mode which optimises fuel efficiency. Hitachi has long been committed to the recycling of components, such as aluminium parts in radiators and oil coolers. Resin parts are marked for recycling.

\*Life Cycle Assessment – ISO 14040

Prior to operating this machine, including the satellite communication system, in a country other than the country of its intended use, it may be necessary to make modifications to the machine to ensure 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 regarding 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 colour and features. Before use, read and understand the Operator's Manual for proper operation.