

ZW-5 series

HITACHI

Reliable solutions

ZW180



WHEEL LOADER

Model Code : ZW180-5B
Max. Engine Power : 126 kW (169 HP)
Operating Weight : 14 900 - 15 400 kg
Bucket ISO Heaped : 2.4 - 3.0 m³



WALK AROUND

CONTENTS

4-5 Comfort

A comfortable work space enhances operational efficiency

6-7 Advanced technology

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

8-9 Safety and the Environment

The environment and safety were important elements in the design process for the new range of ZW-5 wheel loaders.

10-11 Productivity

New hydraulics and gearshift systems, plus enhanced manoeuvrability, ensure high productivity.

12-13 Maintenance

Daily inspections can be carried out quickly and easily to increase the availability of the ZW180-5.

14-15 Hitachi Support Chain

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

16-19 Specification

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 new ZW-5 wheel loader can work in two modes, which provide an appropriate level of performance for the specific job. One mode 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 idle for an extended amount of time.

High productivity

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



ZW180

The new Hitachi ZW180-5 wheel loader has been designed with one aim in mind: empowering your vision. 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 ZW180-5, 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.

Spacious cab

The heated air-suspension seat can slide back further, 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 double filter is provided as standard equipment for dusty environment such as industrial waste job sites. Sound insulation reduces noise levels from the local environment.

Excellent visibility

A windshield without pillars and a large sun visor enhance visibility levels from the operator's seat.

Controlled movement

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

Quick and easy access

The redesigned engine cover provides easy access to inspection points and allows for quick maintenance from ground level.

Transmission control

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

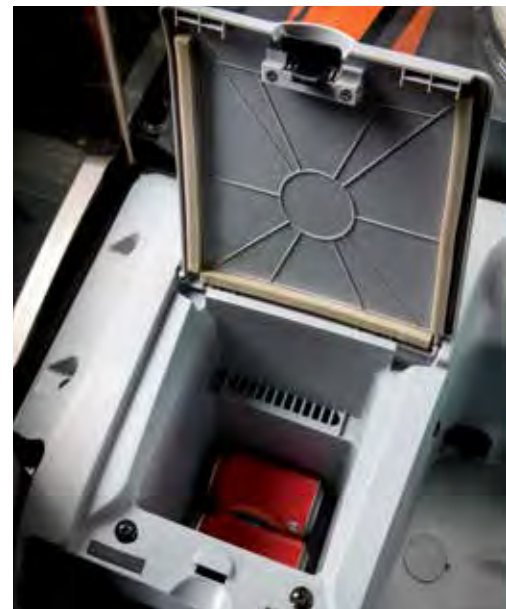


The photos in the brochure are taken using the machines for Europe and Japan. The specification in Australia may be different from that of the photos.



COMFORT

The spacious cab of the new ZW180-5 wheel loader was designed to offer superior 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 operator experience of Hitachi ZW-5 wheel loaders, so you could enjoy your work and feel less fatigued at the end of the 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 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 have 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 ZW-5 wheel loaders to make you feel more relaxed wherever you are.

An effective air conditioning system regulates the temperature within the cab. A double air-conditioning filter is provided as standard equipment for dusty environment such as industrial waste and indoor disposal facilities. High levels of sound insulation ensure noise levels within the cab are reduced.

Space for storage

Working long shifts mean that you 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 behind and 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. Another feature of the cab is the drink 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. Our technologically advanced machines are renowned around the world. The new ZW180-5 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 ZW-5 wheel loader range result in lower fuel consumption and a reduced impact on the environment.



A superior performance is guaranteed



Simple work mode ①

The new ZW-5 wheel loader can be operated 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 the 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

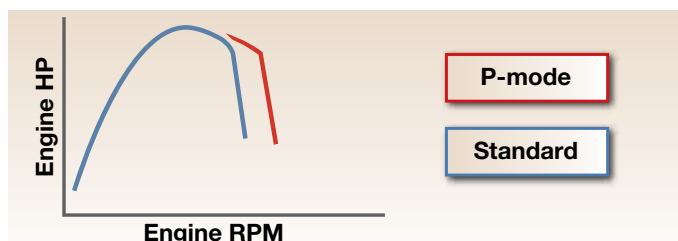
The operator can boost the power of the ZW-5 wheel loader at the push of a button. The Quick power switch changes the mode from Standard to P and can be used when travelling uphill with a full load or when greater breakout force is required.



Clutch cut-off ③

The new clutch cut-off system controls clutch timing for a smoother operation according to travel speed and the pedal depression level. 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

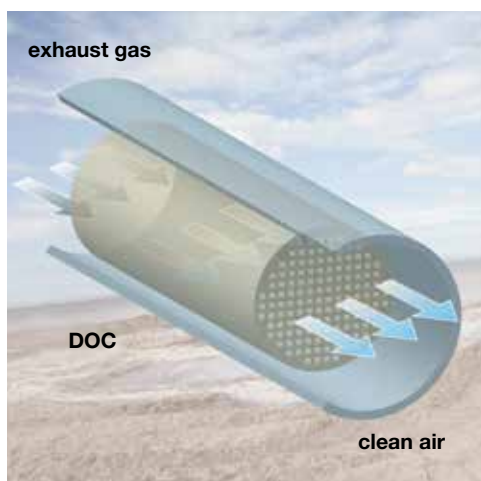


SAFETY AND THE ENVIRONMENT

Hitachi is dedicated to the sustainable development of its products and reducing its environmental impact. The new ZW-5 wheel loader range complies with US EPA Tier 4 Interim / EU Stage IIIB emission regulations. More fuel-efficient than the previous model, it can also help to reduce your running costs. Hitachi is also aware of its commitment to safety on the job site and has enhanced the all-round visibility from the cab. The result is a wheel loader that has a positive effect on the environment, its immediate surroundings and on your business's profitability.



The ZW180-5 contributes to a cleaner, safer work environment



A cleaner environment

The new ZW-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 DOC (Diesel Oxidation Catalyst) reduces PM (particulate matter) from engine exhaust by simple, flow-through passive oxidation without the need of SCR (Selective Catalytic Reduction) 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 idle for long periods. In addition, all resin parts on the new ZW-5 are suitable for recycling and are clearly marked for ease of separation during recycling. The ECO display indicates ECO drive that results in a fuel-saving performance.

A safer work environment

The operator of the ZW-5 can relax in a safer work environment. The new wheel loader offers excellent visibility from all angles. The view from the cab is enhanced by a windshield without pillars, 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 directly behind the machine. The colour display is easy to view and works automatically when the FNR lever/switch is in reverse position.

Shift-up delay to third gear

This system delays the timing of the shift-up to the third 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 (optional)

■ DOC (Diesel Oxidation Catalyst)

■ ECO display

■ Windshield without pillars

■ Large sun visor

■ Both sides of counterweight visible

■ Rear-view monitor

■ Shift-up delay to third gear



PRODUCTIVITY

The new Hitachi ZW180-5 wheel loader has been built to exceed expectations. The design incorporates a new hydraulic circuit and a smooth lift arm movement, which boost efficiency on the job site. Productivity has also been increased by the wheel loader's enhanced manoeuvrability, through automatic gearshift controls. With the new ZW-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 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 the use of the bucket for unloading.

The lift arm movement contributes to the new ZW-5's high productivity levels. The restriction valve lowers the lift arm smoothly, reducing vibrations and operator fatigue.

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

Enhanced manoeuvrability

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

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

The Auto 2 option automatically shifts between second and fifth gear, relative to the load. If required, the operator can also change gears manually by using the Down Shift Switch 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. 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



MAINTENANCE

Wherever you operate the new ZW180-5 wheel loader, high levels of availability are guaranteed. This is due to a number of features that allow quick and easy routine maintenance procedures. Daily checks can be made from ground level, with the engine and radiator cover opening fully, providing convenient access. The new ZW-5 wheel loaders have 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 ZW-5 wheel loader



Easy access

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

For operation in dust-filled environments, the ZW-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. With convenient features such as the automatic reversible cooling fan, the new Hitachi ZW wheel loaders are capable of working for longer.

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 ZW180-5 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.



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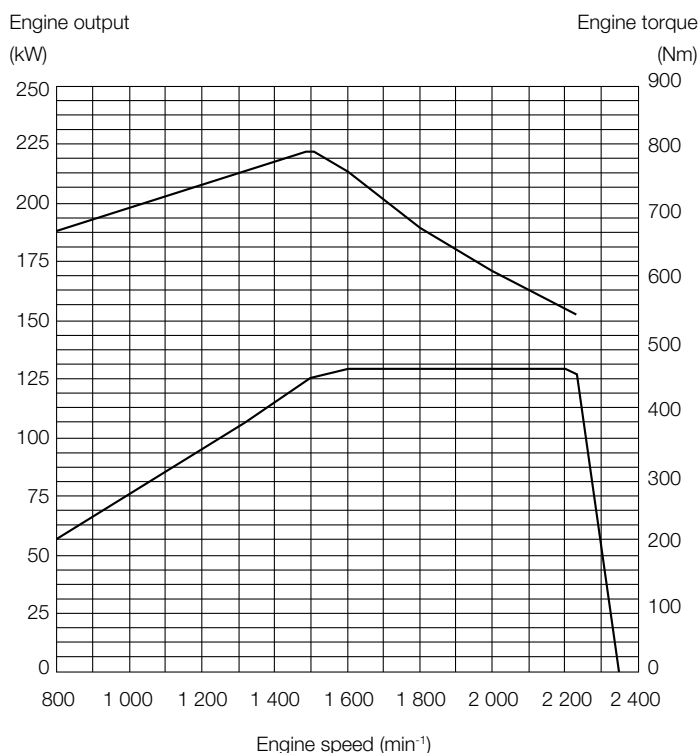
- Check each of your machines from your office – 24/7
- Have a remote insight into fuel consumption
- Check the current and previous locations and movements of your machine(s)

- See maintenance status and items due for renewal on each of your machines
- Receive e-mail notifications for any machine alerts, unexpected movements and more

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 ⁻¹ (rpm)
ISO 9249, net	126 kW (169 HP) at 2 000 min ⁻¹ (rpm)
Maximum torque	800 Nm at 1 500 min ⁻¹ (rpm)
Bore and stroke	107 mm X 124 mm
Piston displacement	6.690 L
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator



POWERTRAIN

Transmission	Torque converter, countershaft type powershift 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 / 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 brake. 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

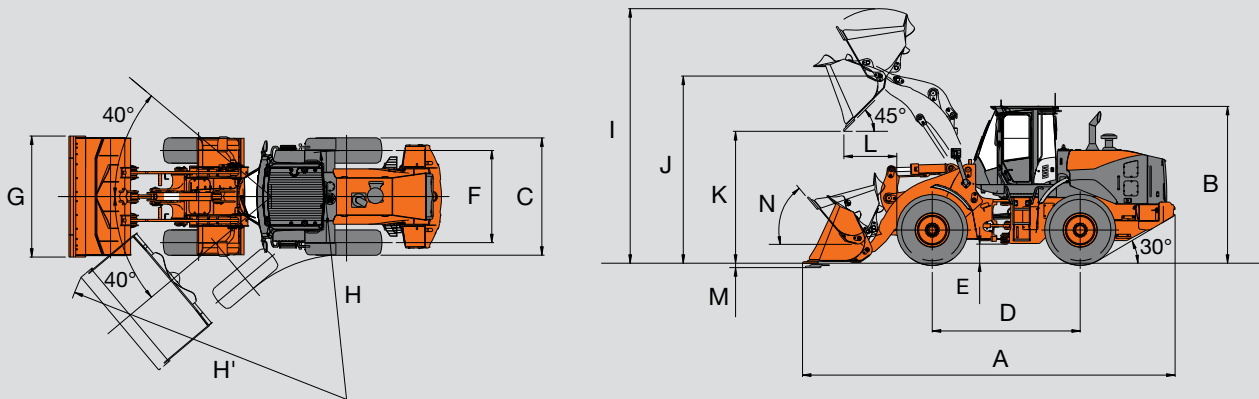
HYDRAULIC SYSTEM

Arm and bucket are controlled by independent control lever	
Arm controls	Four position valve ; Raise, hold, lower, floa
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 ⁻¹ (rpm)
Maximum pressure ...	27.4 MPa
Fan pump	
.....	Fixed Displacement Gear Pump
Maximum flow	54.8 L/min at 2 200 min ⁻¹ (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 : 1 x 150 mm x 495 mm
Filters	Full-flow 15 mic on 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	1.3 s (1.3 s)
Total	10.8 s (10.6 s)
(): Data at Power Mode	

SERVICE REFILL CAPACITIES

Fuel tank	235 L
Engine coolant	28 L
Engine oil	25 L
Torque convertor & transmission	30 L
Front axle differential & wheel hubs	31 L
Rear axle differential & wheel hubs	34 L
Hydraulic oil tank	100 L

DIMENSIONS & SPECIFICATIONS



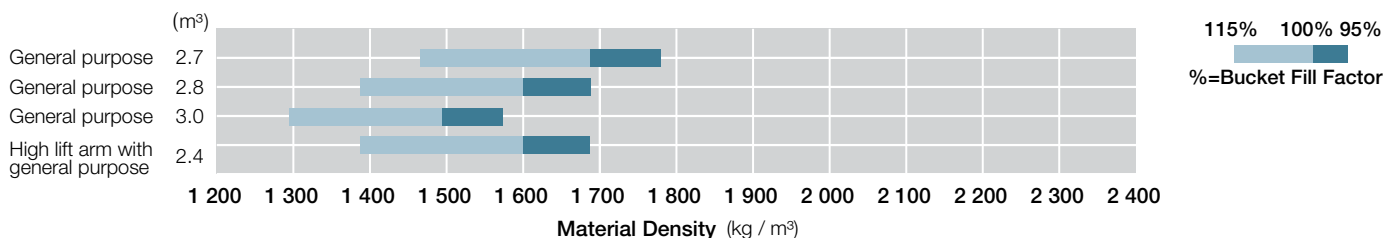
Bucket type			Standard arm			High lift arm
			General purpose			
			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on teeth	Bolt-on cutting edge
Bucket capacity	ISO heaped	m ³	3.0	2.8	2.7	2.4
	ISO struck	m ³	2.6	2.4	2.3	2.0
A Overall length		mm	7 890	7 840	7 990	8 220
B Overall height		mm	3 280			
C Width over tires		mm	2 610			
D Wheel base		mm	3 100			
E Ground clearance		mm	395			
F Tread		mm	2 050			
G Bucket width		mm	2 690			
H Turning radius (Centerline of outside tire)		mm	5 300			
H' Loader clearance radius, bucket in carry position		mm	6 200	6 190	6 230	6 360
I Overall operating height		mm	5 340	5 290	5 290	5 580
J Height to bucket hinge pin, fully raised		mm	3 920			
K Dumping clearance 45 degree, full height		mm	2 760	2 790	2 690	3 290
L Reach, 45 degree dump, full height		mm	1 100	1 070	1 150	1 130
M Digging depth (Horizontal digging angle)		mm	100	100	110	170
N Max. roll back at carry position		deg	50			
Static tipping load *	Straight	kg	12 700	12 700	12 900	10 700
	Full 40 degree turn	kg	10 900	10 900	11 200	9 300
Breakout force		kgf	11 600	12 100	13 200	12 400
		kN	114	119	130	122
Operating weight *		kg	15 000	15 000	14 900	15 400

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 20.5 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.

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)	●

POWERTRAIN

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 element	●
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 filter	●
Lift arm float system	●
Reservoir sight gauge	●
Ride control system (OFF-AUTO type)	●

TIRES

20.5 R25 (L3)	●
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MISCELLANEOUS

Articulation lock bar	●
Auto lubrication system	○
Belly guard (Bolt on type)	●
Bucket cylinder guard	●
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	
Standard lift arm	●
High lift arm	○
Lift & tie down hooks	●
Pilfer proof	
Battery cover with locking bracket	●
Lockable engine cover	●
Lockable fuel refilling cap	●



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.



Hitachi Environmental Vision 2025

The Hitachi Group (the Group) released the Environmental Vision 2025 to reduce their annual carbon dioxide emissions. While the Group is committed to global production, the focus is to reduce the environmental impact of all products, and fulfil a sustainable society by tackling the three goals — prevention of global warming, recycling of resources, and enhancing the ecosystem.

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.