

ZW-6 series

HITACHI

Reliable Solutions

ZW330



WHEEL LOADER

Model code : ZW330-6

Engine output : 232 kW / 311 hp (ISO14386)

Operating weight : 26 500 – 27 100 kg

Bucket ISO heaped : 3.9 – 5.0 m³

ZW330-6. NO COMPROMISE

Exceptionally durable and reliable, the ZW330-6 is ideal for working in tough conditions. Designed and built using pioneering technology, it incorporates high-quality and robust components that can withstand the challenges of busy job sites.

Thanks to low levels of fuel consumption and greater traction force, the new ZW-6 wheel loader can deliver high levels of performance without compromising on efficiency.



6. COMPLETE RELIABILITY



8. BUILT FOR DURABILITY



10. OUTSTANDING VERSATILITY



12. THE HIGHEST QUALITY



14. DRIVEN BY TECHNOLOGY

DEMAND PERFECTION

Hitachi has developed the ZW330-6 to perfection, using unique technology and a focus on durability, operator comfort and safety. Robust materials and strengthened components ensure a reliable performance. It is designed and built to deliver exceptional productivity at the lowest possible cost of ownership.



Powerful performance
Quick power switch increases engine output when required.



Enhanced design
Excellent rear view thanks to the curved engine hood.



Low emissions
SCR system without DPF reduces NO_x from exhaust gas.



Reduced running costs
7% fuel saving in V-shaped loading.



Industry-leading safety
360° visibility from the cab.



Increased productivity
The lift arm raises quicker than ZW-5 model.



Easy loading operation
26% improved traction force for easier loading.



Easy to operate
Multifunctional monitor shows information at a glance.



Smooth operation
Ride control minimises machine pitching.



Superior comfort
Spacious cab with several storage compartments.



User-friendly
Effortless control with the optional Joystick Steering System.



Convenient access
Easy-to-open wide engine covers.



Improved fuel efficiency
Lock-up transmission and Stage IV-compliant engine.



Excellent visibility
LED rear conventional lights.



COMPLETE RELIABILITY

Built using decades of experience in manufacturing reliable construction machinery, the ZW330-6 has been developed by Hitachi to perform efficiently. Its design includes several easy maintenance features to ensure minimal downtime and high levels of availability.

Quick access

The engine covers open fully for the convenience of technical support. The urea tank is also located for safe and easy access from ground level. These help to ensure routine maintenance is completed quickly to ensure a reliable performance.

Improved fuel efficiency

The lock-up transmission has improved the fuel efficiency of the ZW330-6 while travelling, which reduces running costs.

Easy maintenance

For safer and easier maintenance, the battery disconnect switch is now included as standard. This helps to avoid electrical

accidents and retain battery energy during long-term storage.

Reduced costs

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

Reliable performance

The lift arm contributes to the reliable performance of the ZW330-6. Its speed has been improved and it stops smoothly thanks to the flow control system for increased productivity. It is easy to control using the auto leveller.



Easy access to the engine compartment.



The battery is easy to maintain.



New engine reduces fuel consumption.





i Hitachi wheel loaders are tested extensively in job site conditions around the world, in extreme temperatures.



BUILT FOR DURABILITY

Ultimate durability is required from Hitachi ZW-6 wheel loaders. The ZW330-6 is equipped with reinforced parts, strengthened components and robust features to ensure it meets the needs of customers working in demanding conditions. It has been designed and engineered to withstand the toughest environments.

Increased protection

The newly designed rear grille prevents raw material from the job site entering the radiator compartment. This provides greater protection for this durable component.

Robust design

The lift arm, front and rear frame of the ZW330-6 have been designed to be able to handle the rigours of heavy applications.

Efficient cooling

The reversible cooling fan, activated manually or automatically every 30 minutes, ensures that the radiator stays clean during operation.

Durable materials

High-quality radiators improve resistance to corrosion and enhance the overall durability of the ZW330-6 wheel loader.



New rear grille protects radiator compartment.



Durable radiators are corrosion resistant.



The optional belly guard provides added protection.

OUTSTANDING VERSATILITY

The versatility of the ZW330-6 is enhanced by its smooth operation and user-friendly features. It demonstrates speed and precision on a wide range of applications, and the all-round visibility from the cab ensures industry-leading safety for a variety of busy job sites.

Enhanced rear visibility

The muffler and air intake have been moved further away from the cab to improve visibility through the rear window.

Greater traction force

The traction force has improved by 26% compared to the previous model. The result is a more efficient loading operation.

Efficient flexibility

The quick power switch increases engine output when more power is instantly required, or when driving uphill.

Effective control

To ensure a smooth drive on all kinds of terrain, the ride control feature prevents unnecessary pitching via the movement of lift arm cylinders.

High productivity

The simultaneous movement of the bucket and lift arm ensures a smooth digging operation. The bucket is prioritised after unloading so that the wheel loader quickly returns to digging, which helps to increase productivity.



Rear visibility has been enhanced by design modifications.



The ride control feature ensures a smooth performance.



The quick power switch increases power when required.





i The final checking and inspection procedure for each Hitachi wheel loader is typical of Hitachi's dedication to manufacturing products of unfailing quality in response to customer needs.



THE HIGHEST QUALITY

The inherent quality of a Hitachi ZW-6 wheel loader is one of the reasons why it remains at the forefront of the industry in terms of comfort and safety. With first-rate design elements and superior components, it also offers exceptional visibility from the cab and a low-noise performance that ensures it's one of the quietest on the market.



The comfortable cab offers excellent all-round visibility of the job site.



LED work lights enhance visibility in low light conditions.



The optional Joystick Steering System provides exceptional control.

Reduced emissions

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

Increased safety

To enhance visibility in low light conditions, the ZW330-6 is fitted with LED tail lights and optional LED work lights at the front and rear.

Excellent visibility

The 360° panoramic view of the spacious cab creates a comfortable working environment, and helps to increase safety

and productivity. The rear-view camera, in combination with the unique two-piece counterweight, also contributes to excellent all-round visibility and safety on the job site.

Low-noise performance

To significantly reduce noise levels in the cab, sound insulation has been improved. As a result of this and the low-noise engine, operators can enjoy a quieter working environment.

User-friendly operation

The optional Joystick Steering System enables operators to reach high levels of productivity with effortless steering, and incorporates a number of useful functions.

DRIVEN BY TECHNOLOGY

Unique technology is at the heart of the design of Hitachi ZW-6 wheel loaders. As a result, they are state-of-the-art machines that incorporate the most advanced features and components. They are engineered to satisfy the demands of the European construction industry for equipment that not only offers high productivity, but also the lowest possible cost of ownership.

Reduced maintenance

A new Stage IV-compliant engine contains a high-volume cooled exhaust gas recirculation (EGR) system, a common rail-type fuel injection system and a diesel oxidation catalyst (DOC) without DPF. This helps to reduce fuel costs and maintenance requirements.

Smaller environmental impact

The optional auto shutdown feature helps to prevent fuel wastage, as well as reduce noise levels, exhaust emissions and NOx levels of the ZW330-6 wheel loader.

Optimum performance

Hitachi ZW-6 wheel loaders are fitted with a multifunctional LCD colour monitor that shows useful information at a glance, such as fuel and urea levels, oil temperature and power modes. It ensures an optimum performance and easy maintenance. It also includes the display for the easy-to-use rear-view camera, which enhances visibility for a safe operation.

Remote monitoring

Global e-Service allows ZW330-6 owners to monitor their Hitachi machines remotely via Owner's Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximise efficiency, minimise downtime and improve overall performance.



The LCD monitor shows the machine's status and settings.



Covers open fully to give easy access for maintenance.



Remote monitoring with Global e-Service helps to maximise efficiency.



REDUCING THE TOTAL COST OF OWNERSHIP

Hitachi has created the Support Chain after-sales programme to ensure optimum efficiency, as well as minimal downtime, reduced running costs and high resale values.



Global e-Service

Hitachi has developed two remote monitoring systems as part of its Global e-Service online application. Owner's Site and ConSite are an integral part of the wheel loader, which sends operational data daily via GMS to www.globaleservice.com. This allows immediate access to the Owner's Site, and the vital information that is required for support on job sites.

Comparing the ratio of operating and non-operating hours helps to enhance efficiency. Effective management of maintenance programs helps to maximise availability. Running costs

can also be managed by analysing the fuel consumption. The location and movements of each machine are clearly displayed for essential planning.

An automatic service report — ConSite — sends a monthly email summarising the information from Global e-Service for each machine. This includes: daily working hours and fuel consumption data; statistics on the operating mode ratio, plus a comparison for fuel consumption/efficiency, and emissions.

Technical support

Each Hitachi service technician receives full technical training. This provides technicians access to the Hitachi's global experience and knowledge available within the Hitachi quality assurance departments and design centres. Technicians combine this global expertise with the local language and culture of the customer to provide the highest level of after-sales support.

Extended warranty and service contracts

Every new Hitachi ZW-6 model is covered by a full manufacturer's warranty. For extra protection — due to severe working conditions or to minimise equipment repair costs — Hitachi can offer a unique extended warranty and comprehensive service contracts. These can help to enhance ownership experience of each machine, reduce downtime and ensure higher resale values.

Parts

Hitachi parts are available locally via Hitachi Branch network across Australia and New Zealand.

- Hitachi Genuine Parts allow machines to work longer with lower running and maintenance costs.
- Hitachi Genuine Parts are of proven quality and come with the manufacturer's warranty.

- Hitachi rebuilt components are available from Hitachi's in-house remanufacture centre and are offered with a standard warranty.

- Parts can be ordered via Hitachi Online Parts, local branches or Hitachi's 24/7 support centre.

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



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

Koutarou Hirano, HCM President

BUILDING A BETTER FUTURE

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

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

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

Incorporating advanced technology, Hitachi construction machinery has a reputation for the highest quality standards. Suitable for a wide range of industries, it is always

hard at work around the world – helping to create infrastructure for a safe and comfortable way of living, developing natural resources and supporting disaster relief efforts.

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



Compact wheel loaders



ZAXIS excavators



EH dump trucks

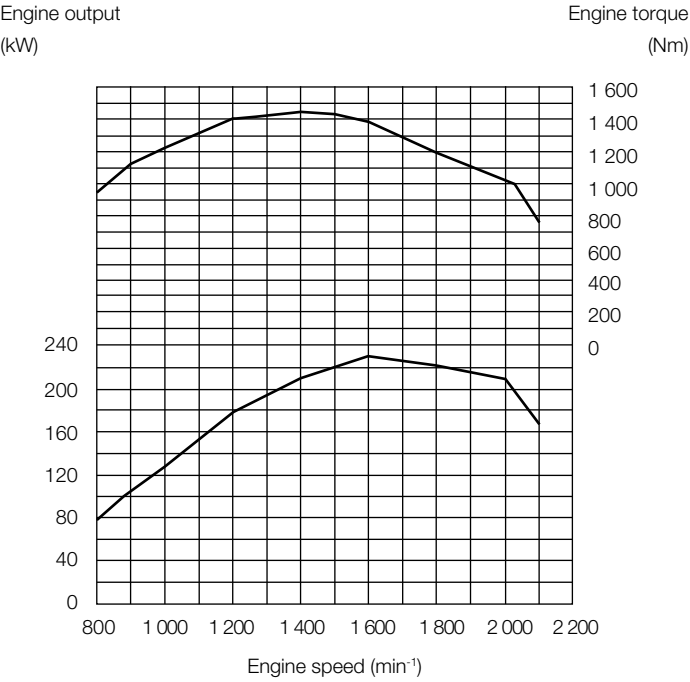


EX ultra-large excavators

SPECIFICATIONS

ENGINE

Model	CUMMINS QSL9
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	6
Maximum power	
ISO 14396.....	232 kW (311 hp) at 1 600 min ⁻¹ (rpm)
ISO 9249, net	225 kW (302 hp) at 1 600 min ⁻¹ (rpm)
Rated power	
ISO 14396.....	212 kW (284 hp) at 2 000 min ⁻¹ (rpm)
ISO 9249, net	203 kW (272 hp) at 2 000 min ⁻¹ (rpm)
Maximum torque, gross ...	1 451 Nm at 1 400 min ⁻¹ (rpm)
Bore and stroke	114 mm X 145 mm
Piston displacement	8.9 L
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final



POWER TRAIN

Transmission	Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included
Torque converter	Three element, single stage, single phase with lock-up clutch
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* Forward / Reverse	
1st	6.5 [6.8] / 6.5 [6.8] km/h
2nd	11.2 (11.3) [11.8 (11.7)] / 11.2 (11.3) [11.8 (11.7)] km/h
3rd	21.9 (22.1) [21.9 (22.1)] / 21.9 (22.1) [21.9 (22.1)] km/h
4th	36.0 (36.0) [36.0 (36.0)] / 36.0 (36.0) [36.0 (36.0)] km/h

*With 26.5R25(L3) tires
(): Data at Lock-up clutch ON
[]: 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 proportioning differential (std) / limited slip differential (optional)
Oscillation angle	Total 24° (+12°,-12°)
Final drives	Heavy-duty planetary, mounted inboard

BRAKES

Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit
Parking brake	Spring applied, hydraulically released, located in transmission

STEERING SYSTEM

Type	Articulated frame steering
Steering angle	Each direction 37° ; total 74°
Cylinders	Double-acting piston type
No. x Bore x Stroke	2 x 90 mm x 450 mm

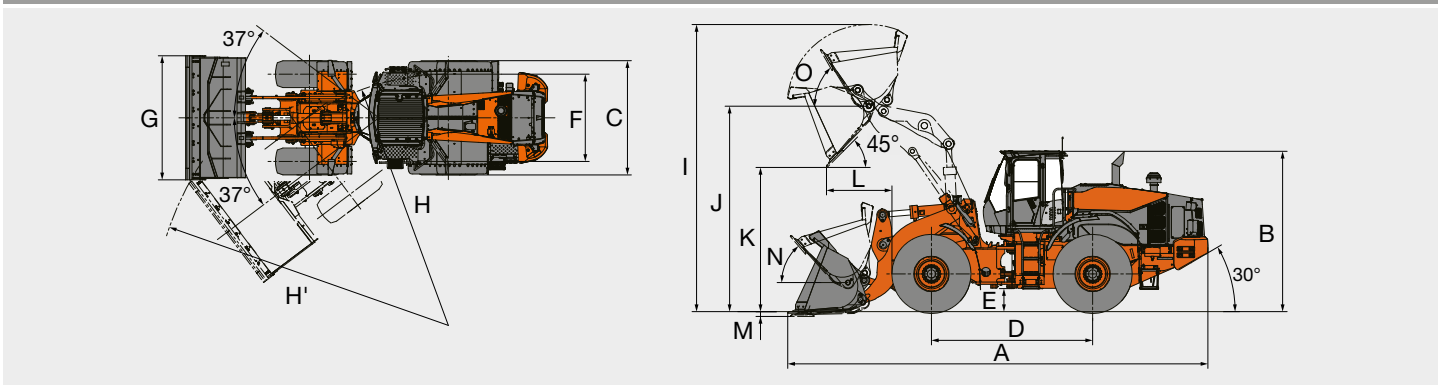
HYDRAULIC SYSTEM

Arm and bucket are controlled by multifunction 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 piston type
Maximum flow	300 L/min at 2 000 min ⁻¹ (rpm)
Maximum pressure ...	31.4 MPa
Fan pump	
.....	Gear type
Maximum flow	85 L/min at 2 000 min ⁻¹ (rpm)
Maximum pressure ...	16.5 MPa
Hydraulic cylinders	
Type	Double acting type
No. x Bore x Stroke ...	Arm : 2 x 150 mm x 930 mm
	Bucket : 1 x 190 mm x 507 mm
Filters	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise	6.4 s (6.3 s)
Lift arm lower	4.4 s (4.4 s)
Bucket dump	1.2 s (1.2 s)
Total	12.0 s (11.9 s)
(): Data at Power Mode	

SERVICE REFILL CAPACITIES

Fuel tank	375 L
Engine coolant	47 L
Engine oil	24 L
Torque convertor & transmission	51 L
Front axle differential & wheel hubs	60 L
Rear axle differential & wheel hubs	60 L
Hydraulic oil tank	137 L
DEF/AdBlue® tank	35 L

DIMENSIONS & SPECIFICATIONS



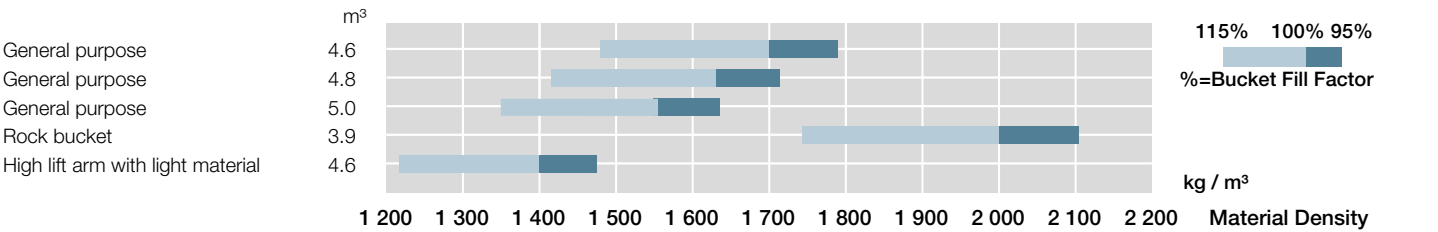
Bucket type			Standard arm				High lift arm
			General purpose			Rock bucket	Light material
							Straight edge
			Straight edge			Straight edge	Straight edge
			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on teeth	Bolt-on cutting edge
Bucket capacity	ISO heaped	m³	5.0	4.8	4.6	3.9	4.6
	ISO struck	m³	4.4	4.2	4.0	3.3	4.0
A Overall length		mm	9 235	9 255	9 155	9 295	9 590
B Overall height		mm			3 530		
C Width over tires		mm			2 930		
D Wheel base		mm			3 550		
E Ground clearance		mm			505		
F Tread		mm			2 230		
G Bucket width		mm	3 170	3 170	3 170	3 185	3 170
H Turning radius (Centerline of outside tire)		mm			6 420		
H' Loader clearance radius, bucket in carry position		mm	7 555	7 535	7 535	7 580	7 715
I Overall operating height		mm	6 285	6 320	6 200	5 980	6 645
J Height to bucket hinge pin, fully raised		mm		4 525			4 970
K Dumping clearance 45 degree, full height		mm	3 190	3 175	3 245	3 125	3 690
L Reach, 45 degree dump, full height		mm	1 415	1 440	1 360	1 440	1 365
M Digging depth (Horizontal digging angle)		deg	105	105	105	135	105
N Max. roll back at carry position		deg		50			47
O Roll back angle at full height		deg			60		
Static tipping load *	Straight	kg	20 160	20 670	20 340	20 770	17 380
	Full 37 degree turn	kg	17 590	18 040	17 750	18 030	15 170
Breakout force		kN	203	200	215	232	215
		kgf	20 780	20 480	21 970	23 680	22 010
Operating weight *		kg	27 340	26 740	27 210	26 820	27 050

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 26.5R25(L3) tires (No ballast) with lubricants, full fuel tank and operator.
Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT CHANGE

Option item		Operating weight (kg)	Tipping load (kg)		Overall width (mm) (outside tire)	Overall height (mm)	Overall length (mm)
			Straight	37 degree turn			
Tire	26.5R25(L3) VMT	± 0	± 0	± 0	± 0	± 0	± 0
	26.5R25(L3) XHA2	± 0	± 0	± 0	± 0	± 0	± 0
	26.5R25(L5) VSDL	+ 660	+ 480	+ 420	+ 15	+ 35	- 15

BUCKET SELECTION GUIDE



EQUIPMENT

● Standard equipment ○ Optional equipment

OPERATOR'S STATION	
Adjustable steering column with POP-UP	●
Radio	
AM/FM radio with Bluetooth	●
Ashtray, cigar lighter	●
Auto control air conditioner *	
with single intake filter	○
with double intake filter	●
Coat hook	●
Front/Rear defroster	●
Glove compartment	●
Rear view camera & monitor	●
Rear view mirrors	
Inside (2)	●
Outside (2)	●
Outside (Heated, 2)	●
Retractable seat belt, 50mm	●
Retractable seat belt, 75mm	○
ROPS (ISO3471), FOPS (ISO3449): multi-plane isolation mounted for noise, vibration reduction	●
Rubber floor mat	●
Seat	
Air suspension seat (heavy duty) with headrest and heater: fabric, high back, adjustable for damper, inclination of the seat, seat depth, weight-height, fore-aft position, reclining angle, armrest angle, headrest height and angle, lumbar support	●
Steering system	
Wheel steering	●
Joystick steering (with wheel steering)	●
Storage	
Cup holder	●
Digital audio player holder	●
Document holder	●
Hot & cool box	●
Seatback pocket	●
Sun shade film on front windshield	○
Sun visor	●
Textured steering wheel with spinner knob	●
Tinted safety glass	
Front windshield: laminated	●
Others: tempered	●
Windshield washers for front and rear	●
Windshield wipers for front and rear	●

ELECTRICAL SYSTEM	
Backup alarm	●
Batteries	
Standard batteries (108Ah-765CCA)	●
Large capacity batteries (140Ah-930CCA)	●
Battery disconnect switch	●
12V power outlet	○

LIGHTS	
Bracket & switch for rotating beacon	○
Brake & tail lights LED	●
Clearance lights	●
Headlights	●
Turn signals with hazard switch	●
Work lights	
Front lights on cab (2) LED	●
Rear lights on rear grille side cover (2) LED	●
Additional front lights on cab (2) LED	●
Rear lights on cab (2) LED	●

POWER TRAIN	
Automatic transmission with load sensing system	●
Axle oil cooler	●
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	●
Lock-up clutch (torque converter)	●
Power mode switch	●
Quick power switch	●
Travel mode selector (Auto1-Auto2)	●

ENGINE	
Air filter double elements	●
Automatic reversible cooling fan with heat sensing	●
Cartridge-type engine oil filter	●
Cartridge-type fuel pre-filter (with water separator function)	●
Cartridge-type fuel main filter	●
Coolant reservoir sight gauge	●
DEF/AdBlue® tank with ISO magnet adapter	●
Engine auto shut-down control system	○
Engine oil remote drain	●
Fan guard	●
Pre-cleaner (Sy-Klone)	●
Radiator (standard fin pitch radiator)	●

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, auto shut-down indicator, clock, clutch cut off indicator, DEF alarm indicator, DEF level gauge, dual lift arm auto leveler indicator, ECO indicator, fan reverse indicator, F-N-R/ shift position indicator, forward/reverse selector switch indicator, hold display, hour meter, joystick steering indicator (optional), odometer, power mode indicator, ride control indicator, seat belt indicator, 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-applied/Hydraulic-released parking brake	●

HYDRAULIC SYSTEM	
Bucket auto leveler (Automatic return to dig control)	●
Control lever	
for 2 spools control valve	
Multifunction lever (MF lever)	○
2 levers	○
for 3 spools control valve	
MF lever & AUX lever for 3rd function	●
2 levers & AUX lever for 3rd function - Inside layout pattern (3rd - bucket - liftarm)	○
Control lever lock switch	●
Dual lift arm auto leveler	●
Hydraulic filters	●
Lift arm float system	●
Ride control system (OFF-AUTO type)	●

TIRES	
26.5R25(L3) XHA2	○
26.5R25(L5) VSDL	○
26.5R25(L3) VMT	●

MISCELLANEOUS	
Articulation lock bar	●
Belly guard (Bolt on type)	●
Bucket cylinder guard	●
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	●
High lift arm	○
Lift & tie down hooks	●
On board information controller	●
Pilfer proof	
Battery cover with locking bracket	●
Lockable engine cover	●
Lockable fuel refilling cap	●
Rear view camera monitor (high mount separated type)	●
Standard tool kit	●

* Contains fluorinated greenhouse gases, Refrigerant type: HFC-134a, GWP: 1430, Amount: 0.90 kg, CO2e: 1.29 ton.

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.

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Hitachi Construction Machinery Australia

www.hitachicm.com.au

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

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