

ZW-6 series

HITACHI

Reliable solutions

ZW330

Tier 4 Final
Certified

311 hp 232 kW
Engine Output, Max, Gross
(ISO 14396)

302 hp 225 kW
Engine Output, Max, Net
(ISO 9249)

6.3 yd³ 4.8 m³
Bucket capacity

58,158 lbs 26,380 kg
Operating weight



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.



Industry-leading safety
360° visibility from the cab.



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



Easy to operate
Multifunctional monitor shows information at a glance.



Smooth operation
Ride control minimizes machine pitching.



Superior comfort
Spacious cab with several storage compartments.



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.



Excellent visibility

LED rear conventional lights.



User-friendly

Effortless control with E-Stick Steering.



Convenient access

Easy-to-open wide engine covers.



Improved fuel efficiency

Lock-up transmission and Tier 4 Final compliant engine.

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 accessibility.

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 standard. This helps to avoid electrical accidents

and retain battery energy during long-term storage.

Reduced costs

The new Tier 4 Final certified 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.

*Machine representative of global product.
Options may not be available in all markets.*



New rear grille protects radiator compartment.



Durable radiators are corrosion resistant.

*Machine representative of global product.
Options may not be available in all markets.*



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.

Durable materials

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

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.

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-around 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 Hitachi flow control system ensures smooth lift arm starts and stops.



Rear visibility has been enhanced by design modifications.



The ride control feature ensures a smooth performance.

*Machine representative of global product.
Options may not be available in all markets.*



The standard LED work lights enhance visibility in low light conditions.

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i The final pre-delivery 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 E-Stick Steering provides exceptional control.

Reduced emissions

A selective catalytic reduction (SCR) system injects urea into exhaust gas to reduce nitrous oxide from emissions. This cutting-edge technology not only helps the environment, but also complies with Tier 4 Final emission regulations.

Increased safety

To enhance visibility in low light conditions, the ZW330-6 is fitted with LED tail lights and standard 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 E-Stick Steering 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 American or North American construction industry for equipment that not only offers high productivity, but also the lowest possible cost of ownership.

Reduced maintenance

A new Tier 4 Final certified 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.

Fewer emissions

The after-treatment device consists of a diesel oxidation catalyst (DOC), urea mixing pipe, SCR system and silencer. This advanced technology is designed to reduce emissions as well as noise levels.

Optimum performance

Hitachi ZW-6 wheel loaders are fitted with a multifunctional LCD color 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 safe operation.

Smaller environmental impact

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

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 maximize efficiency, minimize downtime and improve overall performance.



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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 maximize efficiency.

REDUCING THE TOTAL COST OF OWNERSHIP

Hitachi has created the After Sales Solutions Program 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 maximize availability.

Running costs can also be managed by analyzing 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 summarizing 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 CO₂ emissions.

Technical support

Each Hitachi service technician receives full technical training from Hitachi Construction Machinery Americas Inc. (HCMA) in the USA. These sessions provide access to the same technical knowledge available within the Hitachi quality assurance departments and design centers. Technicians combine this global expertise with the local language and culture of the customer to provide the highest level of after-sales support.



Global e-Service



Technical support



Hitachi Parts

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 minimize equipment repair costs – Hitachi dealers offer a unique extended warranty called HELP (Hitachi Extended Life Program) and comprehensive service contracts. These can help to optimize the performance of each machine, reduce downtime and ensure higher resale values.

Parts

Hitachi offers a wide range, and high availability, of parts located in the new 400,000 sq. ft. Parts Depot centrally located just outside of Atlanta, Georgia.

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

- Performance Parts: to cope with highly demanding conditions, they have been engineered for greater durability, better performance or longer life.

- Genuine Hitachi rebuilt components are available from HCMA's in-house rebuild center and are offered with a standard warranty.

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



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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.

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.

SPECIFICATIONS

Model Name: ZW330-6, EPA Tier 4 Final/EU Stage IV Certified

ENGINE

Gross power (ISO 14396)	311 HP/1,600 RPM (232 kW/1,600 RPM)
Net power (ISO 9249)	302 HP/1,600 RPM (225 kW/1,600 RPM)
Make/Model	Cummins QSL9 diesel engine
Type	4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler
Fuel type	#2 Diesel (Requires ultra-low sulfur fuel.)
Fuel injection pump	Electronically controlled, common rail type
Governor	All speed electrical type
Cooling module type	Hydraulic-driven, suction-type fan, pressurized radiator
Number of cylinders	6
Bore and stroke	4.5" x 5.7" (114mm x 145mm)
Total displacement	543 in ³ (8.9 liters)
Alternator	DC 24V-110A (7.8 kW)
Air cleaner	Dry type (double element)
Starter motor	DC 24V-10.5 HP (7.8 kW)
Battery	DC 12V-930 CCA (200 Ah), 2 units

TORQUE CONVERTER AND TRANSMISSION

Torque converter	3-element, single-stage, 1-phase w/lock-up clutch			
Transmission	Torque converter, countershaft type power shift with computer-controlled automatic shift and manual shift features included			
	Normal Mode	Power Mode	Normal Mode w/Lock-up clutch	Power Mode w/Lock-up clutch
Speeds: Forward	1st: 4.0 MPH (6.4 km/hr)	4.2 MPH (6.8 km/hr)	2nd: 7.0 MPH (11.3 km/hr)	7.3 MPH (11.7 km/hr)
	3rd: 13.6 MPH (21.9 km/hr)	13.7 MPH (22.0 km/hr)	4th: 22.4 MPH (36.0 km/hr)	22.4 MPH (36.0 km/hr)
Speeds: Reverse	1st: 4.0 MPH (6.4 km/hr)	4.2 MPH (6.8 km/hr)	2nd: 7.0 MPH (11.3 km/hr)	7.3 MPH (11.7 km/hr)
	3rd: 13.6 MPH (21.9 km/hr)	13.7 MPH (22.0 km/hr)	4th: 22.4 MPH (36.0 km/hr)	22.4 MPH (36.0 km/hr)

SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	99.1	375
Engine lubricant (including oil pan)	6.3	24
Engine coolant	12.4	47
T/M & T/C	13.5	51
Axle (front/rear)	15.8/15.8	60/60
Hydraulic oil tank	36.2	137
Hydraulic system (including hydraulic tank)	52.8	200
DEF/AdBlue® tank	9.2	35

HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering	
Steering mechanism	Hydraulic power steering unit, pilot operated type	
Lift (boom) cylinder	Two (2) double-acting piston type: 5.9" x 36.6" (150mm x 930mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 7.4" x 19.9" (190mm x 507mm)	
Steering cylinder	Two (2) double-acting piston type: 3.5" x 17.7" (90mm x 450mm)	
Main oil pump	Variable Piston type: 79.0 GPM/1,000 PSI @ 2,000 RPM (300 LPM/6.9 MPa @ 2,000 RPM)	
Pilot oil pump	Variable Piston type: 22.5 GPM/3,260 PSI @ 2,000 RPM (85 LPM/16.5 MPa @ 2,000 RPM)	
Relief valve set pressure	Loading	4,554 psi, 31.4 MPa (320 kgf/cm ²)
	Steering	3,974 psi, 27.4 MPa (280 kgf/cm ²)

HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system

	Normal Mode	Power Mode
Lifting time (at full load)	6.4 sec.	6.3 sec.
Lowering time (empty)	4.4 sec.	4.4 sec.
Bucket dumping time	1.2 sec.	1.2 sec.
TOTAL	12.0 sec.	11.9 sec.

* Measured in accordance with SAE J732C

AXLE SYSTEM

Drive system	4-wheel drive
Front and rear axle	Full-floating type
Tires	26.5R25 (L-3)
Reduction and differential gear	Spiral bevel gear, torque proportioning, single stage reduction
Final reduction gear	Inboard mounted, internal planetary gear
Oscillation angle	Total 24 (+12, -12)°

BRAKE SYSTEM

Service brakes	Inboard mounted fully hydraulic 4-wheel disc brake. Front and rear independent brake circuit.
Parking/Emergency brake	Spring-applied, hydraulically-released. Located in transmission.

Remarks

- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
- Counterweight should not be used with tire ballast.
- This specification sheet may contain attachments and optional equipment not available in your area.

Please contact your local HCMA dealer for additional information.

BUCKET DATA

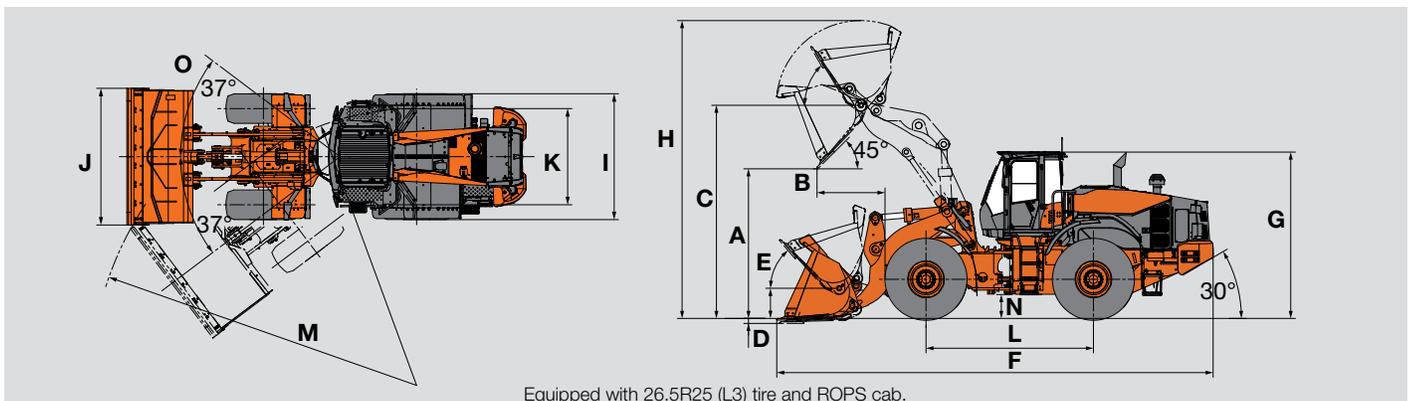
			Standard Boom	
			General Purpose	Material Handling
			Straight Edge With Bolt-on Cutting Edge	Straight Edge With Bolt-on Cutting Edge
				
Capacity	Heaped	yd ³ (m ³)	6.3 (4.8)	6.5 (5.2)
	Struck	yd ³ (m ³)	5.5 (4.2)	5.9 (4.5)
A	Maximum dumping clearance	ft-in (mm)	10'5" (3,175)	10'3" (3,120)
B	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	4'9" (1,440)	4'11" (1,495)
C	Max. hinge pin height	ft-in (mm)	14'10" (4,525)	14'10" (4,525)
D	Digging depth (with bucket level)	in (mm)	4.1" (105)	4.1" (105)
Breakout force		lb (kN)	42,430 (189)	40,241 (179)
Bucket tilt-back angle	at ground level	degree	41°	41°
	E at carry position	degree	45°	45°
Overall	F Length	ft-in (mm)	30'4" (9,255)	30'6" (9,291)
	G Height (up to cab top)	ft-in (mm)	11'7" (3,530)	11'7" (3,530)
	H Height (bucket fully raised)	ft-in (mm)	20'9" (6,320)	21' (6,405)
	I Width (outside tire)	ft-in (mm)	9'7" (2,930)	9'7" (2,930)
	J Width (outside bucket)	ft-in (mm)	10'5" (3,170)	10'5" (3,170)
K	Tread	ft-in (mm)	7'4" (2,230)	7'4" (2,230)
L	Wheel base	ft-in (mm)	11'8" (3,550)	11'8" (3,550)
Clearance Circle (bucket carry position)	M at outside of bucket	ft-in (mm)	24'9" (7,535)	24'9" (7,535)
	at outside of tire	ft-in (mm)	21'1" (6,420)	21'1" (6,420)
N	Minimum ground clearance	in (mm)	20" (505)	20" (505)
O	Full articulation angle	degree	37°	37°
Operating weight (with ROPS cab)*		lb (kg)	58,158 (26,380)	57,915 (26,270)
Static tipping load (with ROPS cab)*	Straight	lb (kg)	45,085 (20,450)	44,571 (20,220)
	Full turn	lb (kg)	39,330 (17,840)	38,890 (17,640)

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 (L-3) tires (No ballast) with lubricants, full fuel tank and operator.

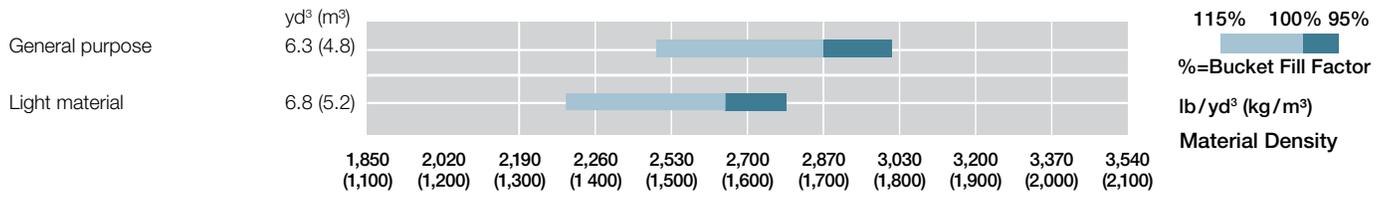
Machine stability and operating weight depend on counterweight, tire size and other attachments.

DIMENSIONS



SPECIFICATIONS

BUCKET SELECTION CHART



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

EQUIPMENT DATA

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element
Auto idle shut down
Cold start (intake air heater)
Cooling fan, automatic reversible
Cummins QSL9 diesel engine
EGR (exhaust gas recirculation)
Fuel filter (Main)
Fuel pre-filter, w/water separator
Rain cap
SCR (selective catalytic reduction) catalyst and DOC (diesel oxidation catalyst)
VGT (variable geometry turbocharger)
Work mode selector

POWERTRAIN

Brakes, service
Enclosed wet disc
Dual system
Inboard mounted
Brake, parking
Spring applied
Oil pressure released
Wet disc type
Differential, torque proportioning type (F/R)
Down-shift switch
Drive shafts, low maintenance
F-R direction selector (2-column mounted/console mounted)
Lock-up torque converter
Quick Power switch
Transmission, automatic w/load sensing system.
Transmission declutch (3-position L/H/Off)
Transmission mode selection (3-position AUTO1/MAN/AUTO2)
Universal joints, sealed

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)
Bucket positioner (horizontal)
Control lever, dual, pilot-assisted
Control lever lock (electric)
Control valve, 2-function, parallel and tandem control
E-stick steering
Pump, variable displacement, load-sensing
Ride control w/load sensing valve and automatic shut-off
Steering, pilot
System; open-center, high-pressure, load-sensing
Valve, anti-drift

ELECTRICAL

24-volt electrical system
Back-up alarm
Batteries (2), 12 V, 930 CCA
Battery disconnect switch
Camera, rear-view
Converter, 12 V/15 Amp
Horn, dual electric
Instrument panel, LCD, color
Lights:
2 Headlights (halogen)
4 Forward working lights (4 LED)
4 Rear working lights (LED)
2 Stop/tail/backup (LED)
Turn signal w/4-way flashers/marker

CAB

ROPS cab: enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.
Accessory outlet, 12 V
Adjustable armrest/console
Air conditioner/heater/pressurizer
AM/FM/WB radio with AUX input and Bluetooth
Ashtray
Cab dome lamps (2)
Cigarette lighter, 24 V
Coat hook
Cup holder (2)
Floormat, sweep-out
E-stick steering
Prepped for Loadrite Scale
Retractable seat belt (3-inch)
ROPS/FOPS, ISO 3449 Level II compliant
Seat, deluxe heated w/TLV suspension
Steering column, telescoping and tilting w/quick-release pedal
Steering wheel
Storage box (heated/cooled)
Storage tray
Sun visor

OTHERS

Articulation locking bar
Belly guard, transmission (rear)
Counterweight
Drawbar
Fenders, front, w/mudflap
Global e-service, telematic monitoring system
Ladders, inclined
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Rear grill, hinged
Steps, rear
Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Aftertreatment device
	Air cleaner element
	Axle oil temperature
	Battery discharge warning
	Brake oil low pressure
	CAN network system
	DEF/AdBlue tank level/quality/system
	Engine coolant temp
	Engine oil low pressure
	Engine trouble
Engine warning	
Fuel filter (water in fuel)	
Hydraulic oil level	
Hydraulic oil temperature	
Main pump oil pressure	
Transmission oil temp	
Transmission warning	
Gauges	DEF/AdBlue tank level
	Engine coolant temperature
	Fuel gauge
	Speedometer
	Tachometer
Indicators	Transmission oil temperature
	Aftertreatment device
	Air conditioner display
	Boom kick-out, dual
	Cold start
	Control lever lock
	Declutch
	ECO-Operating Status
	Fan reverse rotation
	F-N-R Selection
	F-N-R Switch enable
	High beam
	Parking brake
	Shift hold
	Time/Operating hour/ODO
Transmission mode and status	
Turn signal w/4-way flashers/Marker	
Work light	
Work mode (Normal, Power)	

OPTIONAL EQUIPMENT

High mount in-cab monitor
Loadrite scale
Satellite Telematic monitoring
Single lever hydraulic control w/multifunction grip



HITACHI

Reliable solutions



REPUTATIONS ARE
BUILT ON IT.

With manufacturing facilities in Banshu, Ryugasaki, Tierra, and Hitachinaka, Japan, and the U.S. corporate office and campus in Newnan, Georgia, Hitachi Construction Machinery Americas Inc. (HCMA) has the experience and technology to design, engineer, manufacture, and service your Hitachi construction machinery. The HCMA team is securely poised as your go-to source in the North American and Latin American construction machinery market.

Through our long-term commitment to maintaining a leadership position in technology, service, and support, HCMA supports an extensive network of independent, local dealers focused on providing you with knowledgeable and experienced sales, service, and parts personnel. All backed by dedicated HCMA support teams.

Your HCMA dealer has the resources, expertise and personnel to work with you to ensure that you receive the most benefit from your Hitachi investment utilizing carefully designed programs and services in conjunction with extensive digital resources. HCMA provides a totally focused approach to supporting you, your business, and your Hitachi construction machinery.

Machines representative of global product. Options may not be available in all markets. 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.