HITACHI

Reliable solutions

ZW370





WHEEL LOADER

Model Code: ZW370-5A Engine power: 300 kW (402 HP) Operating Weight: 31 750 - 32 570 kg Bucket ISO Heaped: 4.8 - 8.5 m³

Amazing Performance with Enhanced Controllability

The new ZW370 wheel loader employs advanced technologies to achieve excellent productivity with enhanced controllability. Furthermore, the machine has a comfortable cab, easy maintenance features, and Hitachi's comprehensive service package, including ConSite, enabling operators to work efficiently in tough environments.

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Pegg 40

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Maintainability and durability

The New **ZW370** Wheel Loader



ZW Empower your Vision.

Powerful and Efficient Operation

Operators can choose between 2 modes depending on job site requirements.

Fuel consumption (per operation)

25% less (L / ton)
*against ZW370-g

Active Engine Control

Variable Displacement Piston Pump

New Transmission

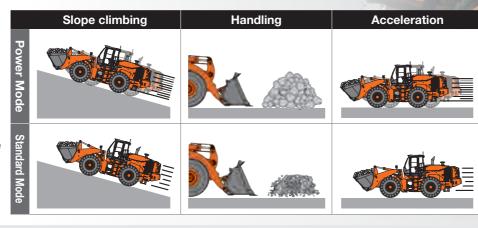
Quick Power Switch

Re-designed bucket

PICK UP

Extra Power with Power Mode

Standard mode, sufficient for ordinary work, is set as default. The other mode, Power mode, gives extra power when needed. It is particularly useful on sites where strong traction or acceleration is required.



NEW

2 Ways to Activate Power Mode





Power mode can be activated by 2 ways and operators can choose either switch depending on the site requirements.

A Quick Power Switch (QPS)

Use the QPS on the lever when extra power is needed temporarily, such as climbing a steep slope. When switching forward/reverse or when the travel load reduces, the power mode selected via the QPS automatically reverts to the standard mode. By using the QPS, the power mode is activated only when needed and this helps to reduce fuel consumption.

B Power Mode Switch

Use the power mode switch when extra power is needed constantly, such as moving heavy materials like rocks, and getting the job done quickly. When the power mode is activated via the power mode switch, the mode will remain on until the engine is turned off.

NEW

Active Engine Control System for Economical Operation and Easy Control

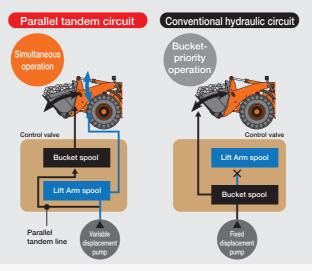


The "Active Engine Control System" plays a key role in achieving economical operation. Strategically positioned sensors detect movements throughout the machine and adjust engine speed accordingly to eliminate energy losses to maximize fuel conservation. This delivers smooth and fuel-efficient operation.

Large Capacity and Re-designed Bucket for Better Productivity

To maximize the performance of ZW370-5A, the 5.6m³ general purpose bucket has been re-desiged in a way to reduce spillage after loading materials in a bucket.

Parallel Tandem for Smooth Operation



The parallel tandem circuit carries out simultaneous operations of the bucket and the lift arm. Front work such as excavation and loading can be done smoothly, which boosts the efficiency.

Remarkable increasing of fuel efficiency, "Lock-UP Torque Converter" (Optional)

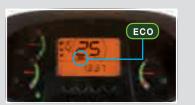
The lock-up clutch in the torque converter allows direct drive in the top speed range. It connects engine and transmission directly to prevent power loss. This remarkably increases fuel efficiency in long haul, load-and-carry operation, and hill climbing



NEW

ECO Mark Indicator for Fuel-Efficient Operation

The ECO mark indicator turns on when fuel-efficient operation is activated. This function encourages operators to utilize fuel efficient operation.



Enhanced Controllability

Hitachi analyzed various wheel loader operations including digging, approach to a dump truck and travel after dumping.

This has led to the development of features to improve wheel loader controllability.

PICK UP

New Transmission

The new transmission comes standard with the Auto mode* that can automatically select optimum gears depending on the load, thereby reducing fuel consumption.

* AUTO1 (1st-4th gear) and AUTO2 (2nd-4th gear) are selectable using Travel mode selector.

AUTO1	Auto	omatic gear	shift: gears	1-4
AUTO2	1st	Automatic	gear shift:	gears 2-4
Manual	1st	2nd	3rd	4th



Travel mode selector

Levers for Easy Operation



Two levers



ertip control Grip c

In order to offer more efficient and comfortable operation, a new type of lever is employed to suit both fingertip control and grip control.

* A variety of lever patterns are available depending on job needs and operator's preference.

NEW

Speed-Responding Clutch Cut-Off System

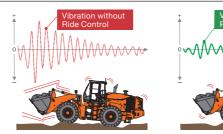
Clutch cut-off timing is adjusted by sensing travel speed and pedal depression for smooth and efficient truck loading. The Flat mode, Slope mode and OFF are selectable with Clutch cut position switch depending on job requirements.

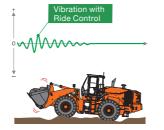


Clutch cut position switch

Ride Control System (Optional)

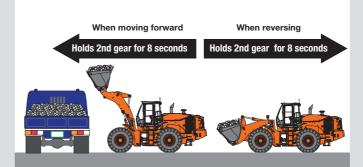
The ride control system can reduce pitching and bouncing when traveling on rough terrain. This system automatically controls the movement of machine to reduce shock and vibration.





NEW

NEW Shift Change Delay Mode



Shift change delay mode is provided to avoid an excessive rise in travel speed during approaching to a dump truck/hopper. When moving forward, the second gear is kept for 8 seconds to prevent over-speed. When reversing, the second gear is kept for 8 seconds. These delays of shifting to the third gear help to keep fuel consumption down, ensuring smooth loading.

Lift Arm Restriction Valve

ZW370

This restriction valve suppresses the shaking of the machine when the lift arm stops. That improves operator comfort and avoids load spills.



Lift Arm Auto Leveler

The lift arm can be automatically stopped at an preset level for efficient truck-loading, and lowering the bucket after dumping. The operator can concentrate on traveling without worrying about the lift arm.

Operator-Friendly Features to Improve Operator Comfort and Safety

The cab is both comfortable and functional with a series of features aimed at reducing operator fatigue.

PICK UP

Bi-Level Auto Air Conditioner

This auto air conditioner has bi-level control function: warming at foot space and cooling at overhead.

The pressurized cab shuts out dust, keeping the cab interior clean. In dusty environments, optional external double-filters are available for the air conditioner.





Panoramic Cab



The spacious panoramic cab offers near all-round visibility through pillar-less bonded windows, enhancing safety. The seat and steering wheel can be adjusted to suit the operator, keeping the operator in an optimum position. In-cab noise is suppressed further. Even when the going gets tough, the operator can feel comfortable with less fatigue.

Tiltable Steering Wheel

The steering wheel is tiltable to fit the wheel to the operator for comfortable operation.



Tiltable steering wheel

NEW Angled ladder for safety

In order to ensure safety when getting on and off the cab, the angled ladder is placed at a height and width for better accessibility.



AM/FM Radio with 2 Speakers (Optional)

The AM/FM radio has an auto-tuning feature and the 2 speakers stereo system provides excellent sound quality.



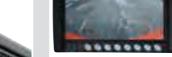
AM/FM radio with 2 speakers

* An AUX port (stereo mini jack) is an option for connection with a mobile music

Rearview Monitor (Optional)

The rearview monitor allows the operator to see the rear of the machine, including a view behind the counterweight. This rearview monitor enhances safe operation.





An Array of Convenient Accessories















Glove compartment, cigarette lighter and ashtray

Simplified Maintenance and Durability with Proven Support System

Hitachi Support Chain offers a comprehensive suite of support services for customers.

PICK UP

Simplified Maintenance

E Fuel filter (prefilter)

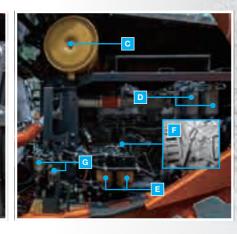
Engine oil gauge

G Water separator

The engine cover swings up to provide a wide service space. Inspection/maintenance points are concentrated for easy inspection and servicing from the ground.

- A Coolant reservoir sight gauge
- B Engine oil filter
- C Air cleaner element
- **D** Fuel filter (main)







Robust Frame

The ZW370-5A has been designed with a full box rear frame. This provides a robust structure that is capable of handling the rigours of heavy applications.



Robust frame

Dual Z-bar linkage



Dual Z-bar linkage provides enough durability when loading rock and quarry. The loads during digging and loading is distributed efficiently. The durability of each pin and the rigidity against twisting is increased.

Automatic Reversible Cooling Fan (Optional) to Reduce Dust Deposits



The automatic reversible cooling fan is available to keep the radiator clean at all times. The cooling fan is automatically selfreversed for 1 minutes every 30 minutes to blow dust off the radiator.

Universal joint with 4 000 hours greasing interval

The greasing interval of the universal joint of the propeller shaft becomes 4 000 hours. Greasing interval can be reduced by half. (* against ZW370-G)

Parts and Service

Parts

Hitachi Global Online Network, a parts supply system, is linked with CPD (Central Parts Depot), overseas depots and dealers abroad to deliver on-line parts information, including in-stock parts, order receptions, shipments and delivery period of over one million parts and components.

Genuine Hitachi Parts

Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

Service

ConSite (Optional)

ConSite is a full-package service menu which is designed for Hitachi's machines used around the world. It closely monitors the entire operation status of your machine to improve its overall performance and increase machine's availability and efficiency. Data Report Service* (Montly Report and Alram Report) is provided via the registered e-mail addresses.

Technical Training

On-site servicing matters in any location to keep the machine at peak performance and reduce downtime.

Technical Training Center (TTC), located in Japan, educates and trains service technicians and service support personnel coming from Hitachi dealers and factories on the globe based on the international training programs.



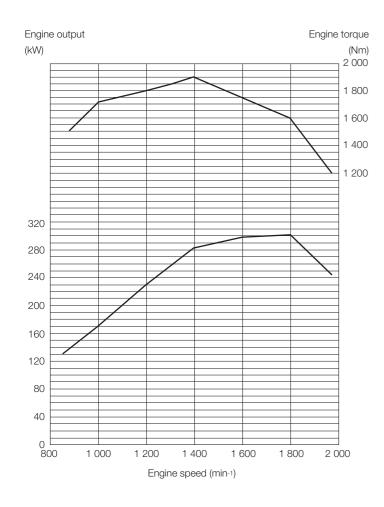
- * Data Report Service is available only on machines equipped with the communication system
- Contact Hitachi authorized dealers for the details of Data Report Service and machine models that are supported.

 The communication availability may rely on your worksite location and environment. Please confirm that your machine is

Under no circumstances shall Hitachi Construction Machinery and or subsidiaries and its dealers be held responsible or liable for any

SPECIFICATIONS

ENGINE	
Model	ISUZU "6WG1" diesel engine
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger, intercooled and cooled EGR
No. of cylinders	6
Maximum power	
SAE J1995/ISO14396, gross	300 kW (402 HP) at 1 800 min-1
SAE J1349/ISO 9249, net	299 kW (401 HP) at 1 800 min-1
Rated power	
SAE J1995, gross	300 kW (402 HP) at 1 800 min-1
Maximum torque	1 932 Nm at 1 400 min-1 (rpm)
Bore and stroke	147 mm X 154 mm
Piston displacement	15.68 L
Batteries	DC 12 V X 2
Air cleaner	Double element dry type with restriction indicator



POWER TRAIN	
Transmission	Torque converter, planetary gear type powershift with computer-controlled automatic shift and manual shift features included
Torque converter	Three element, single stage, single phase with lock-up clutch (Optional)
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* Forward / Re	everse
1st	6.1 / 6.5 km/h
2nd	11.3 (12.3) / 12.1 (13.1) km/h
3rd	19.2 (21.6) / 20.7 (23.2) km/h
4th	36.4 (37.0) / - km/h
* With 29.5-25-22PR (L3) t	tires.
Data at power mode are	the same as data at standard mode.
	4

():Date at Lock-up clutch (optional) ON

AXLE AND FINAL DRIVE

Final drives

Oscillation angle Total 24° (+12°, -12°)

Drive system	Four-wheel drive system
Front & rear axle	Full-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and	
differential gear	Two stage reduction with torque proportional
	differential (std) / limited slip differential (options

TIRES	
Tire size	29.5-25-22PR(L3)
Ontional	Refer to standard & ontional equipment list

......... Heavy-duty planetary, mounted outboard

BRAKES	
Service brakes	Middle mounted fully hydraulic 4 wheel disc brake Front & rear independent brake circuit
Parking brakes	Spring applied, hydraulically released, located in front axle driveline

STEERING SYSTEM	
Туре	Articulated frame steering
Steering angle	Each direction 37°; total 74°
Cylinders	Double-acting piston type
No. x Bore x Stroke	2 X 90mm X 600 mm

HYDRAULIC SYSTEM	
Arm and bucket are contro	olled by 2 lever
Lift arm controls	Four position valve; raise, hold, lower, float
Bucket controls	Automatic bucket return-to-dig control
	Three position valve; roll back, hold, dump

Main pump (Serve as steer	ring pump)
	Variable displacement axial piston pump
Maximum flow	340 L/min at 1 800 min-1 (rpm)
Maximum pressure	31.4 MPa

Brake & Fan & Pilot oil pun	np
	Variable displacement axial plunger pump
Maximum flow	00 L/min at 1 800 min 1 (rpm)

Maximum pressure .. 22.5 MPa

Hydraulic cylinders	
Type	Double acting type
No. x Bore x Stroke	Arm: 2 x 160 mm x 1 027 mm
	Bucket: 2 x 130 mm x 656 mm
Filters	Full-flow 9 micron return filter in reservoir

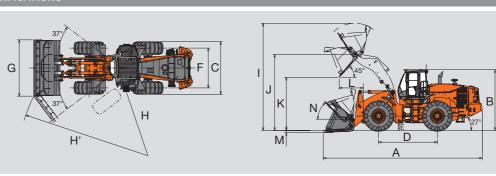
Hydraulic cycle times* Lift arm raise 5.8 s Lift arm lower 4.5 s Bucket dump 1.2 s Total 11.5 s

^{*} Data at power mode are the same as data at standard mode.

Fuel tank	. 438 L
Engine coolant	. 76 L
Engine oil	. 52 L
Torque converter & transmission	. 71 L
Front axle differential & wheel hubs	. 95 L
Rear axle differential & wheel hubs	. 95 L
Hydraulic oil tank	. 178 L

SOUND LEVEL	
Sound level in cab according to ISO 6396	LpA 76 dB (A)
External sound level according to ISO 6395	LpA 110 dB (A)

DIMENSIONS & SPECIFICATIONS



						Standard arm				High lift arm
Bucket type			G	General purpos	е	General purpose (Loose material)	Rock straight	Rock V-edge	Light material **	General purpose (Loose material)
-			Bolt-on edge	Bolt-on teeth	Bolt-on teeth + Space Edge	Bolt-on edge	Bolt-or	n teeth	Bolt-on edge	Bolt-on edge
Bucket capacity	ISO heaped	mз	5.6	5.4	5.6	6.2	4.8	5.0	8.5	5.6
вискет сарасну	ISO struck	mз	4.9	4.7	4.9	5.4	4.1	4.3	7.3	4.9
A Overall length		mm	9 745	9 890	9 890	9 835	9 830	10 010	9 905	10 160
B Overall height		mm				3 7	730			
C Width over tires		mm				3 2	220			
D Wheel base		mm				3 6	600			
E Ground clearance		mm				44	40			
F Tread		mm				2 4	140			
G Bucket width		mm	3 450	3 465	3 465	3 450	3 465	3 465	4 090	3 450
H Turning radius (Centerli	ne of outside tire)	mm				6 6	605			
H' Loader clearance radius,	, bucket in carry position	mm	7 845	7 895	7 895	7 870	7 875	7 875	8 180	8 025
I Overall operating height	t	mm	6 565	6 565	6 565	6 620	6 450	6 450	6 635	6 980
J Height to bucket hinge	pin, fully raised	mm				4 655				5 070
K Dumping clearance 45	degree, full height	mm	3 255	3 135	3 135	3 195	3 180	3 050	3 145	3 670
L Reach, 45 degree dum	p, full height	mm	1 480	1 560	1 560	1 545	1 520	1 645	1 590	1 520
M Digging depth (Horizon	tal digging angle)	mm	135	160	160	135	165	165	135	130
N Max. roll back at carry	position	deg				50				49
Static tipping load *	Straight	kg	23 430	23 830	23 400	23 270	23 390	23 100	22 670	19 760
Static tipping todu	Full 37 degree turn	kg	20 420	20 760	20 390	20 270	20 370	20 130	19 750	17 220
Breakout force		kΝ	217	234	217	204	243	209	206	218
		kgf	22 130	23 870	22 130	20 810	24 790	21 320	21 010	22 240
Operating weight *		kg	31 920	31 750	31 950	32 030	32 150	32 280	32 570	32 200

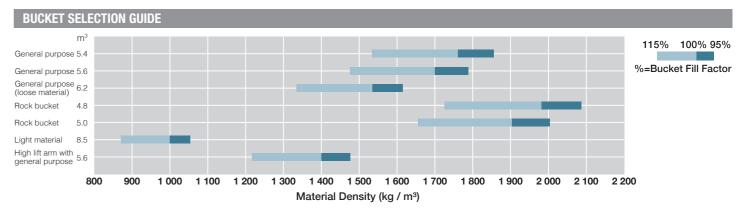
Note: All dimensions, weight and performance data based on ISO 6746-1:1987,ISO 7131:2009 and ISO 7546:1983
: Static tipping load and operating weight marked with include 29.5-25-22PR (L3) tires (No ballast) with lubricants, full fuel tank, 2 270kg counterweight, ROPS cab and operator.

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

*** Please consult with the local deplay about a palliability.

WEIGHT CHANGE

Option item		Operating weight	Tipping load (kg)		Overall width	Overall height	Overall length
		(kg)	Straight	37 degree turn	(mm) (outside tire)	(mm)	(mm)
	29.5-25-22PR (L3)	+0	+0	+0	+0	+0	+0
	29.5-25-28PR (L3)	+300	+210	+180	+0	+0	+0
	29.5-25-22PR (L4)	+730	+520	+450	+10	+35	-30
Tive	29.5-25-22PR (L5)	+1 080	+770	+660	+10	+40	-35
Tire	29.5-25-28PR (L5)	+1 260	+900	+770	+0	+0	+0
	29.5R25 (L3)	+310	+220	+190	+0	+0	+0
	29.5R25 (L4)	+750	+540	+460	+10	+35	-30
	29.5R25 (L5)	+1 180	+840	+720	+10	+40	-35
Optional counter weight		+530	+1 220	+1 040	+0	+0	+0
Lock-up clutch		+80	+90	+80	+0	+0	+0
Emergency steering		+60	+50	+40	+0	+0	+0
Ride control		+100	+30	+20	+0	+0	+0
Belly guard (rear frame)		+90	+90	+80	+0	+0	+0



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^{**:} Please consult with the local dealer about applicability.

EQUIPMENT

OPERATOR'S STATION	
Adjustable steering column	•
Ashtray, cigar lighter	•
Audio	
AM/FM radio	0
AM/FM radio with AUX for digital audio player	0
Auto control air conditioner	
with single intake filter	•
with double intake filter	0
Cab	
ROPS (ISO3471), FOPS (ISO3449)	•
Coat hook	•
Front/Rear defroster	•
Glove compartment	•
Rear view camera & monitor	0
Rear view mirrors	
Inside (2)	•
Outside (2)	•
Outside (Heated, 2)	0
Rear under mirror	0
Retractable seat belt, 50 mm	•
Rubber floor mat	•
Seat	
Mechanical suspension seat: fabric, high back, adjustable for armrest angle, fore-aft position, reclining angle and weight-height.	•
Air suspension seat with headrest and heater: fabric, high back, adjustable for armrest angle, damper, fore-aft position, headrest height and angle, inclination of the seat, lumbar support, reclining angle, seat depth and weight-height.	0
Storage	
Cup holder	•
Digital audio player holder (with AUX for digital audio player)	•
Document holder	•
Hot & cool box	•
Seatback pocket	•
Sun visor	•
Textured steering wheel with spinner knob	•
Safety glass (tempered)	•
Windshield washer front and rear	•
Windshield wipers front and rear	•
ELECTRICAL SYSTEM	-
Alternator	
Standard alternator (50 A-24 V)	•
Large capacity alternator (110 A-24 V)	0
Backup alarm	•
Batteries	
Standard batteries (140 Ah-930 CCA)	•
Large capacity batteries (176 Ah-1 170 CCA)	0
Battery disconnect switch	0
12 V power outlet	0

 Standard equipment 	O Optional equipmer

COOLING SYSTEM	
Fan	
Cooling fan with heat sensing	•
Automatic reversible cooling fan with heat sensing	0
Fan guard	•
Radiator	
Standard fin pitch radiator	•
LIGHTS	
Brake & tail lights	•
Proko 9 toil lights (LED)	^

LIGHTS	
Brake & tail lights	•
Brake & tail lights (LED)	0
Clearance lights	•
Headlights	•
Turn signals with hazard switch	•
Work lights	
Front lights on cab (2)	•
Front lights on cab (2) (LED)	0
Rear lights on rear grille side cover (2)	•
Additional front lights on cab (2)	0
Additional front lights on cab (2) (LED)	0
Rear lights on cab (2)	0
Rear lights on cab (2) (LED)	0
Rotaing warning light on cab	0
Rotating warning light on engine hood	0

Automatic transmission with load sensing system	•
Axle oil cooler	0
Lock-up torque converter	0
Clutch cut position switch	•
Forward/Reverse lever	•
Forward/Reverse selector switch	0
Differential	
TPD (Torque Proportioning Differential)	•
LSD (Limited Slip Differential)	0
DSS (Down Shift Switch)	•
Power mode switch	•
Quick power switch	•
Shift change delay mode	•
Travel mode selector (Auto1-Auto2)	•

ENGINE	
Air intake	
Rain cap	•
Pre-cleaner (Sy-Klone)	0
Air filter double elements	•
Cartridge-type engine oil filter	•
Cartridge-type fuel filter	•
Cartridge-type water separator filter	•
Engine oil remote drain	•
Fuel tank for bio fuel	0

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

Front & rear independent brake circuit	•
Inboard mounted fully hydraulic 4 wheel wet disc	•
Pedal	
Single brake pedal	•
Double (LH & RH) brake pedal	0
Spring-set/Hydraulic-released parking brake	•

change con the control bearing or and		_
HYDRAULIC SYSTEM		
Bucket auto leveler (Automatic return to dig control)		•
Control lever		
for 2 spools control valve		
2 levers		
	280	

Multifunction lever (MF lever)



for 3 spools control valve

MF lever & AUX lever for 3rd function



2 levers & AUX lever for 3rd function

- Outside layout pattern (Bucket - liftarm - 3rd)



- Inside layout pattern (Bucket - liftarm - 3rd)



•
•
•
•
•
•
0

TIRES	
29.5-25-22PR (L3)	•
29.5-25-28PR (L3)	0
29.5-25-22PR (L4)	0
29.5-25-22PR (L5)	0
29.5-25-28PR (L5)	0
29.5R25 (L3)	0
29.5R25 (L4)	0
29.5R25 (L5)	0

MISCELLANEOUS	
Articulation lock bar	•
Belly guard (bolt on type) (front / rear frame)	0
Bucket cylinder guard	0
Counterweight	
2 270 kg counterweight	•
2 800 kg counterweight	0
Drawbar with locking pin	•
Emergency steering	0
Fenders	
Front & half covered rear fenders	•
Front & half covered rear fenders with mud flaps	0
Global e-service	0
Lift arm	
Standard lift arm	•
High lift arm	0
Lift & tie down hooks	•
On board information controller	•
Anti-vandal protection	
Battery cover with locking bracket	•
Engine coolant filler cover	0
Lockable engine cover	•
Lockable fuel refilling cap	•

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



Hitachi Environmental Vision 2050

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 New ZW

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZW utilizes many technological advances, including the new standard mode which optimizes fuel efficiency. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil coolers. Resin parts are marked for recycling.

*Life Cycle Assessment - ISO 14040



Before using a machine with a satellite communication system, please make sure that the satellite communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

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.

 Hitachi Construction Machinery Co., Ltd. www.hitachicm.com

KL-EN167P 22.05 (KM / SO,FT2)