HITACHI

Reliable solutions

ZW220





WHEEL LOADER

Model Code: ZW220-5A Engine power: 144 kW (193 HP) Operating Weight: 16 810 - 17 380 kg Bucket ISO Heaped: 2.7 - 3.4 m³

Improved Fuel Economy and Amazing Performance

The new ZW220 wheel loader combines excellent fuel economy with enhanced controllability. The "Active Engine Control System" - original Hitachi technology - determines operating status and adjusts engine speed while suppressing machine jerking. The ZW220 offers what is most needed today - fuel efficiency and productivity.

CONTENTS	The New ZW220 w
10%* fuel saving * Compared to the conventional ZW220 Page 4 - 5 Fuel economy	
Enhanced controllability Page 6 - 7 Controllability and productivity Value	
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ZW Empower your Vision.	

Wheel Loader



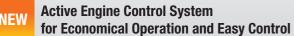
A 10% Fuel Saving

The "Active Engine Control System" can reduce fuel consumption by 10%, while enhancing controllability and productivity.

PICK UP Technology to Cut Fuel Consumption

Here are some fuel-saving techniques: avoiding rapid start of travel, and eliminating energy losses during excavation through variable displacement hydraulic pumps.

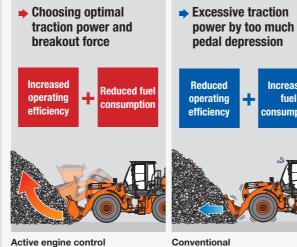






The "Active Engine Control System" plays a key role achieving a 10% fuel saving. Strategically positioned sensors detect movements throughout the machine and adjust engine speed accordingly to eliminate energy losses to maximize fuel conservation. This delivers smooth, fuel-efficient operation.

Active Engine Control System for Digging





fuel

The Active Engine Control System chooses optimal traction power and breakout force for smooth digging while improving fuel efficiency, utilizing data collected from the sensors on the machine.



2 Selectable Work Modes: **Standard and Power Modes**



Standard mode is preselected and enough for ordinary work that requires constant power, such as loading. Power mode is selectable when extra power is needed.

A Power Mode

Select this mode when extra power is needed, such as climbing a steep slope or getting the job done quickly.

Quick Power Switch (QPS)

Pressing the Quick Power Switch on the lever selects the Power mode. When switching forward/reverse, or when a reduction in traction is detected, the Standard mode resumes automatically. The Quick Power Switch helps save more fuel compared to operation when the Power mode is constantly selected.





ECO Mark Indicator for Fuel-Efficient Operation



Monitor indication items:

Clock, oil replacement intervals, travel speed, mileage, hour meter

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

Enhanced Controllability

Hitachi analyzed various wheel loader operations including digging, approach to a dump truck, operation after dumping and travel. This led to the development of strategies to improve wheel loader controllability.

New Transmission with 5 speed gears **PICK UP**

The new transmission comes standard with the Auto mode* that can automatically select an optimum gear according to the load, thereby reducing fuel consumption. Especially, the new transmission has 5 speed gears which can keep fuel efficient engine rpm more easily compared to the conventional transmission with 4 speed gears.

* AUTO1 (1st-5th gear) and AUTO2 (2nd-5th gear) are selectable using travel mode selector.



Travel mode selector

NEW

NEW **Levers for Easy Operation**







Two levers

Grip control 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.



Speed-responding Clutch Cut-off System

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



Clutch cut position switch

Lift Arm restriction valve

TACHI

This restriction valve suppresses the shaking of the machine when the lift arm stops to improve operator comfort and avoid load spills.



Lift Arm Auto Leveler (Optional)

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

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

Bi-Level Auto Air Conditioner PICK UP

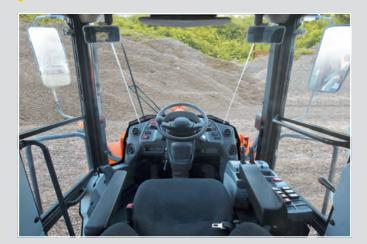
This auto air conditioner has bi-level control function: warming at foot space and cooling at overhead.

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. 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.



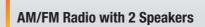
Tiltable steering wheel

Comfort-Designed Suspension Seat

The mechanical suspension seat absorbs shocks and vibration from the machine in order to reduce operator's physical stresses to the operator.



Suspension seat



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

The player pocket can hold a cell phone.

* An AUX port (stereo mini jack) is an option for connection with a mobile music player for entertainment during breaks.



AM/FM radio with 2 speakers



Player holde

NEW 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.



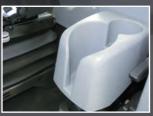
Rearview camera Rearview monito



8



An Array of Convenient Accessories











Hot and cool bo





Glove compartment, cigarette lighter and ashtray

Simplified Maintenance with Proven Support System

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

PICK UP

Simplified Maintenance

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



A Fuel pre-filter B Main fuel filter C Engine oil gauge Window washer tank

Robust Frame

The main frame and its joins are thoroughly strengthened. The boxsection structure is adopted around center pins, where concentrated forces are applied, for



Nide fin pitch rad

Robust frame reinforcement. Frame plate thicknesses are optimally determined by 3D stress analysis.

Wide Fin Pitch Radiator (Optional)

Wide fin pitch radiator is available for use in dusty environments, where there are large amounts of airborne debris, to avoid dust clogging and overheating as a result. Air blowing is easy and simple



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 every 30 minutes to blow dust off the radiator. The cover swings up for efficient air blowing.

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.

Service

ConSite

ConSite is a full-package service menu which is designed for Hitachi's machines used around the world. We closely monitor and support each machine working at each job site from various aspects, ensuring the best-tuned machines that are accommodated for the site condition and meet your specific needs.



HITAC

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Genuine Hitachi Parts

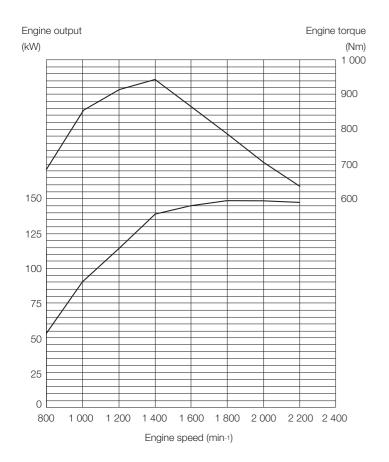
Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

Technical Training

- On-site servicing matters despite locations 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 according to the international training programs.

SPECIFICATIONS

ENGINE	
Model	CUMMINS QSB6.7
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
No. of cylinders	6
Maximum power	
SAE J1995/ISO14396, gross	145 kW (194 HP) at 2 000 rpm
SAE J1349/ISO 9249, net	144 kW (193 HP) at 1 800 rpm
Rated power	
SAE J1995, gross	144 kW (193 HP) at 2 200 rpm
Maximum torque	931 Nm at 1 400 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



POWER TRAIN

Transmission	Torque converter, countershaft type powershift with computer-controlled automatic shift and man- ual 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 / Re	everse
1st	6.7 / 7.0 km/h (6.7 / 7.1 km/h)
2nd	11.4 / 12.0 km/h (11.7 / 12.3 km/h)
	16.7 / 25.9 km/h (17.5 / 27.3 km/h)
4th	24.8 km/h (26.1 km/h)
5th	37.4 km/h (37.4 km/h)
*With 23.5-25-16PR (L3) ti	res
(): Data at Power Mode	

(): Data at Power Mode

AXLE AND FINAL DRI	VE
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 conventional differential
Oscillation angle	Total 24° (+12°,-12°)
Final drives	Heavy-duty planetary, mounted outboard

TIRES

Fire size	23.5-25-16PR (L3)
Optional	Refer to standard & optional equipment list

BRAKES	
Service brakes	Outboard 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

Гуре	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

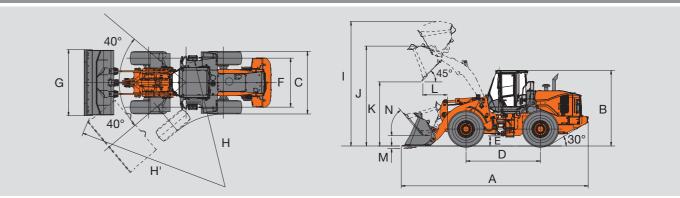
HYDRAULIC SYSTEM

Iled by independent control lever Four position valve ; Raise, hold, lower, float natic bucket return-to-dig control
Three position valve ; Roll back, hold, dump
ing pump) Variable Displacement Axial Plunger Pump 271 L/min at 2 170 min-1 (rpm) 27.4 MPa
Fixed Displacement Gear Pump 80.5 L/min at 2 200 min-1 (rpm) 19.0 MPa
Double acting type Arm : 2 x 130 mm x 880 mm Bucket : 1 x 165 mm x 510 mm Full-flow 15 micron return filter in reservoir
5.9 s (5.6 s) 3.3 s (3.3 s) 1.2 s (1.2 s) 10.4 s (10.1 s)

SERVICE REFILL CAPACITIES	S
Fueltank	

Fuel tank	255 L
Engine coolant	25 L
Engine oil	25 L
Torque converter & transmission	40 L
Front axle differential & wheel hubs	35 L
Rear axle differential & wheel hubs	35 L
Hydraulic oil tank	114 L

DIMENSIONS & SPECIFICATIONS



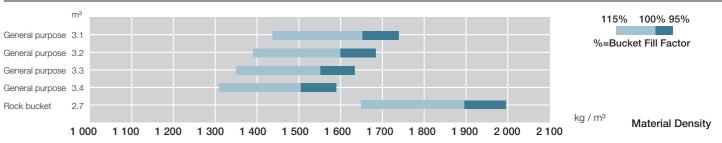
					Standard arm			High lift Arm
Bucket type			General purpose Rock bucket					General purpose
			Bolt-on cutting edge		Bolt-on teeth		Bolt-on teeth	Bolt-on cutting edge
Bucket capacity	ISO heaped	тз	3.2	3.4	3.1	3.3	2.7	2.7
Duoivor oupuoiry	ISO struck	mз	2.6	2.8	2.7	2.8	2.3	2.3
A Overall length		mm	8 200	8 250	8 350	8 390	8 290	8 580
B Overall height		mm			3 :	375		
C Width over tires		mm			2	785		
D Wheel base		mm			3 :	300		
E Ground clearance		mm			4	55		
F Tread		mm			2	160		
G Bucket width		mm			2 9	910		
H Turning radius (Centerline	e of outside tire)	mm			. 5	520		
H' Loader clearance radius,	bucket in carry position	mm	6 590	6 600	6 630	6 650	6 620	6 760
I Overall operating height		mm	5 480	5 530	5 480	5 530	5 480	5 760
J Height to bucket hinge pi	in, fully raised	mm			4 090			4 500
K Dumping clearance 45 de	egree, full height	mm	2 920	2 880	2 810	2 780	2 850	3 420
L Reach, 45 degree dump, full height		mm	1 110	1 140	1 190	1 220	1 150	1 170
M Digging depth (Horizontal digging angle)		mm	100	100	120	120	120	180
N Max. roll back at carry position					Ę	50		
Obstitution in a local *	Straight	kg	13 810	13 760	14 040	13 990	13 390	11 090
Static tipping load *	Full 40 degree turn	kg	11 940	11 890	12 150	12 100	11 510	9 540
Breakout force		kgf	15 150	14 580	16 460	15 820	17 100	15 550
		kN	149	143	161	155	168	153
Operating weight (with ROPS/	FOPS cab)*	kg	17 100	17 140	17 020	17 060	17 590	17 220

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 23.5-25-16PR(L3) tires (No ballast) with lubricants, full fuel tank, 1930kg counter weight ROPS cab and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT CHANGE

Option item		Operating weight	Tipping load (kg)		Overall width	Overall height	Overall length
		(kg)	Straight	Full turn	(mm) (outside tire)	(mm)	(mm)
Tire	23.5-25-16PR(L3)	±0	±0	±0	±0	±0	±0
	23.5R25(L3)	+200	+150	+130	+40	-10	+10
23.5R	23.5R25(L5)	+700	+530	+470	+50	+20	-10
Belly gurad		+170	+120	+110	-	-	-
2 270 kg Counter weig	ht	+340	+780	+690	-	-	-

BUCKET SELECTION GUIDE



EQUIPMENT

Adjustable steering column	•
Ashtray, cigar lighter	•
Audio	
AM/FM radio	•
AM/FM radio with AUX for digital audio player	0
Auto control air conditioner	
with single intake filter	٠
Cab	
ROPS (ISO3471), FOPS (ISO3449)	٠
Coat hook	•
Front/Rear defroster	٠
Glove compartment	٠
Rear view camera & monitor	0
Rear view mirrors	
Inside (2)	٠
Outside (2)	٠
Retractable seat belt, 50mm	٠
Rubber floor mat	٠
Seat	
Mechanical suspension seat: fabric, high back, adjustable for armrest angle, fore-aft position, reclining angle and weight-height.	•
Storage	
Cup holder	٠
Digital audio player holder	٠
Document holder	٠
Hot & cool box	٠
Seatback pocket	٠
Sun visor	٠
Textured steering wheel with spinner knob	٠
Safety glass (tempered)	٠
Windshield washer front and rear	٠
Windshield wipers front and rear	•

	ELEC	TRICAL	SYSTEM
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•
•
0
0

 Standard equipment O Optional equipment

COOLING SYSTEM

Fan	
Cooling fan with heat sensing	٠
Automatic reversible cooling fan with heat sensing	0
Fan guard	•
Radiator	
Standard fin pitch radiator	٠
Wide fin pitch radiator	0

LIGHTS	
Brake & tail lights	•
Clearance lights	•
Headlights	•
Turn signals with hazard switch	•
Work lights	
Front lights on cab (2)	•
Rear lights on rear grille side cover (2)	•

POWER TRAIN	
Automatic transmission with load sensing system	•
Clutch cut position switch	•
Differential	
Conventional differential	٠
LSD (Limited Slip Differential, front)	0
DSS (Down Shift Switch)	•
Forward/Reverse lever	•
Power mode switch	٠
Quick power switch	٠
Travel mode selector (Auto1-Auto2)	٠
1st speed fixed switch	•

ENGINE

Air intake	
Rain cap	•
Pre-cleaner (Sy-Klone)	0
Pre-cleaner (Bowl type)	0
Air filter double elements	•
Cartridge-type engine oil filter	•
Cartridge-type fuel pre-filter	•
Cartridge-type fuel main filter	•
Engine oil remote drain	•

Gauge: coolant temperature, fuel, transmission oil temperature Indicator lights: air filter restriction, 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 temperature maintenance, parking brake, power mode, preheat, seat belt, service, transmission o
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

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

HYDRAULIC SYSTEM Bucket auto leveler (Automatic return to dig control) • Control lever for 2 spools control valve 2 levers Multifunction lever (MF lever) 0 for 3 spools control valve MF lever & AUX lever for 3rd function 0 2 levers & AUX lever for 3rd function - Outside layout pattern (Bucket - liftarm - 3rd) 0 Control lever lock switch • Dual lift arm auto leveler 0 Hydraulic filters • Lift arm float system • Reservoir sight gauge • Ride control system (OFF-AUTO type) 0

23.5-25-16PR (L3) 0 23.5R25 (L3) 0 23.5R25 (L5) 0 MISCELLANEOUS Articulation lock bar Belly guard (Boit on type) 0 Bucket cylinder guard 0 Counter weight 1 930 kg counter weight 1 930 kg counter weight 2 270 kg counter weight 0 Drawbar with locking pin Emergency steering 0 Fenders for 23.5-25-16PR Front & half covered rear fenders for 23.5-25-16PR Front & full covered rear fenders Front & full covered rear fenders 0 Global e-service Lift arm Standard lift arm High lift arm High lift arm 0 Lift & tie down hooks 0 n board information controller Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable fuel refilling cap	TIRES	
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High lift arm O Lift & tie down hooks • On board information controller • Pilfer proof • Battery cover with locking bracket • Lockable engine cover • Lockable fuel refilling cap • Anti-vandal protection • Battery cover with locking bracket • Lockable engine cover •	Lift arm	
Lift & tie down hooks On board information controller Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Standard lift arm	•
On board information controller Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	High lift arm	0
Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Lift & tie down hooks	•
Battery cover with locking bracket ● Lockable engine cover ● Lockable fuel refilling cap ● Anti-vandal protection ● Battery cover with locking bracket ● Lockable engine cover ●	On board information controller	•
Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Pilfer proof	
Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Battery cover with locking bracket	•
Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Lockable engine cover	•
Battery cover with locking bracket	Lockable fuel refilling cap	•
Lockable engine cover	Anti-vandal protection	
	Battery cover with locking bracket	
Lockable fuel refilling cap	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 2025

The Hitachi Group released the Environmental Vision 2025 to curb annual carbon dioxide emissions. The Group is committed to global production while reducing environmental impact in life cycles of all products, and realizing a sustainable society by tackling three goals — prevention of global warming, recycling of resources, and enhancement of ecosystem.

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.

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.

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