HITACHI



WHEEL LOADER

- Model Code: ZW180
- Operating Weight: 14 220–14 710 kg
 Bucket Capacity: ISO Heaped: 2.2–3.3 m³
 Max. Engine Output: 128 kW (171 HP)

Introducing the New-Generation Wheel Loaders:

Series

Top-Class Production with Amazing Mobility

The new ZW Series wheel loaders are packed with numerous innovative technologies and mechanisms. Total control of engine and pump torque is an industry's first. Three work modes and three driving modes help enhance operating ease and yield high production. What's more, lots of advanced designs give power and speed for loading and travel.

The ZW Series will set a new standard of productive, easy-to-operate wheel loaders.

Pages 10-11

Productivity

Three work modes to increase production and decrease fuel consumption

Three driving modes and load-sensing Auto-DSS

High-torque engine and capacious torque converter

Torque proportioning differential
Limited slip differential (Optional)
Smoother simultaneous operations with
advanced hydraulic circuit
Selectable clutch cutoff Timing
Lift arm auto leveler (Optional)
Ride control system (Optional)

Pages 4-7

Panoramic comfortable cab

Bi-level auto air conditioner and pressurized cab

Front & rear defrosters

Low noise design Panoramic cab

Enhanced upward visibility

Good rear visibility

Ergonomically positioned switches and

controls

Down-Shift Switch (DSS) and Up-Shift Switch (USS)

Multi-functional joystick lever (Optional)
Comfort-designed suspension seat

Pages 8-9

Enhanced Durability

Robust differential gears

New-type engine

Durable axles

Variable displacement pumps

Robust frame

Hydraulically operated cooling fan with

heat-sensing system

Capacious hydraulic oil cooler

Protected fuel tank

Aluminum radiator and oil cooler

LED indicators and instruments

O-Ring Seal (ORS) joints and water-

Easy Maintenance

Extended hydraulic oil replacement

- . . .

Easy draining

Conveniently located filters

Easy-to-replace air conditioning filters

HN bushings

Strategically located Fuel supply port

Easy-to-read monitor

Flat cab floor

Hinged radiator cover

Dirt-Less (DL) front frame

Pages 12-13

Safety

Full fan guard

Emergency steering system

Mis-operation protection

ROPS / FOPS cab

Highly reliable dual-line brake system

Other safety features

Page 14

Environment

Common rail fuel injection system

Hitachi Silent (HS) fan

Low noise engine

A recyclable machine

Page 15

Specifications

Pages 16-19

- The new engine complies with the Emission Regulations U.S EPA Tier 3 and EU Stage III A
- The advanced low noise design complies with the coming EU noise regulation 2000 / 14 / EC, STAGE II

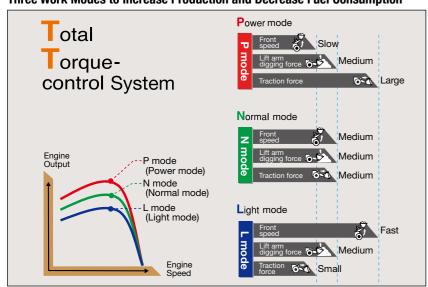
Note: Pictures may or may not include standard and optional equipment that are specified individually by countries.

Packed with Numerous Technological Advances for Amazing Mobility and Big Production

The new ZW Series is packed with lots of technological advances: the TT* system, newly developed hydraulic system and transmission, well matching of operations, impressive mobility and big production with less fuel consumption, and much more.

*Total Torque-control

Three Work Modes to Increase Production and Decrease Fuel Consumption



Three work modes are selectable according to job needs and operator's preference. In each work mode, TT* system controls the total torque of the engine and pump for well matched penetration force and implement speed according to job needs. The three work modes can be optimally selected to suit materials to be handled for higher production.



Heavy-duty excavation

Loading

L mode: Light-duty operation

Three Driving Modes and Load-Sensing Auto-DSS*

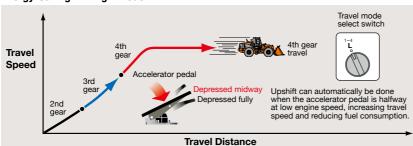


The three driving modes can be selected according to job needs.

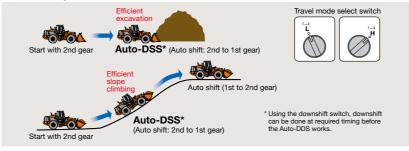
Energy-Saving Driving L mode:

Starts with the second gear, and makes gear shift at first timing. With the accelerator pedal depressed midway, allows auto upshift and increases travel speed at low engine speed for higher fuel efficiency. This driving L mode is suitable for haulage and long-distance travel to boost fuel efficiency. What's more, the Auto-DSS can make auto downshift to the first gear according to loading conditions. There is no need for conventional downshift to the first gear by the downshift switch or the manual mode, reducing operator's burden and increasing loading efficiency.

Energy-Saving Driving L Mode



Load-Sensing Auto-DSS



*Auto-Down Shift System

Driving N mode:

Starts with the second gear and makes gear shift at slow timing. Suitable for ordinary V-shaped load-and-carry operation that does not need extra traction force.

Driving H mode:

Makes gear shift at timing similar to the driving N mode, but the Auto-DSS automatically shifts down to the first gear according to loading conditions. Suitable for production-first jobs.



Smooth Speed Shift by Electronic Control

Quick, smooth speed shift can automatically be done with less shocks by electronic control through helical gears. This allows speedy job-to-job travel with less soil spills in load-and-carry operation.

High-Torque Engine and Capacious Torque Converter

Rated output: 128 kW (171 HP) Max. torque: 763 Nm (78 kgf m)

The new engine yields big torque at a low speed in direct response to acceleration without need for full throttle. The capacious torque converter enables powerful travel under heavy load, such as climbing steep or long hills without losing speed.

Torque Proportional Differential (Standard)

The torque proportional differential adjusts driving forces to both wheels. When road resistances under both wheels are different, this feature prevents slippage of a wheel on softer ground, unlike conventional differentials. This feature enables the ZW series to get out of swamps or rough terrain easily.

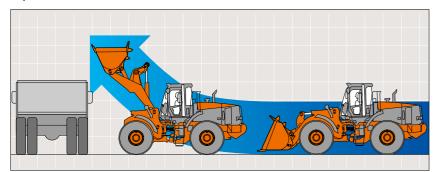
Limited Slip Differential (Optional)

On snowy roads and rough terrain, the limited slip differential can work instead of the torque proportional differential. This delivers effective driving force to both wheels for enhanced grip and less slippage during travel.

lacksquare

An Array of Elaborate Mechanisms for Impressive Mobility and Big Production

Improved Rise / Run Performance



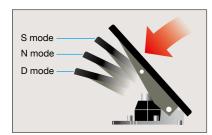
Arm rising while traveling for improved rise / run performance. On the new ZW Series, 10% higher rise/run performance can be expected, boosting loading efficiency and increasing productivity.

Smoother Simultaneous Operations with Advanced Hydraulic Circuit



With the new parallel/tandem circuits, the lift arm and bucket can be operated at the same time, unlike conventional machines. This can remarkably increase digging and loading efficiency for higher production.

Selectable Clutch Cutoff Timing



Clutch cutoff timing can be selected from three positions to suit various job conditions, including rapid operation on level ground, and surefooted operation on gradient.



S mode:

The clutch is cutoff at fast timing by depressing the pedal for speedy loading on level ground.

N mode:

The clutch is cutoff by depressing the pedal midway for surefooted loading on slope.

D mode:

The clutch is cutoff by depressing the pedal fully for dumping into a hopper on

OFF:

The clutch is disabled.

Sophisticated Mechanisms for Higher Job Efficiency

The float system lets the lift arm follow up road irregularities by using its selfweight only, without using its hydraulic circuit. This system is useful in soil-spill collecting during loading, and snow removing.

Bucket Auto Leveler

The bucket can automatically be leveled parallel to the ground after dumping the

Lift Arm Kick-Out System

The lift arm can automatically be raised up to the preset level. This function is convenient when loading onto a dump truck, and when operating at confined job sites with restricted working height.

Lift Arm Auto Leveler (Optional)

The lift arm can automatically be raised and lowered to the preset level. By using the switches in the cab, high and low lift kickouts can be programmed.





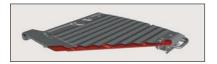
Bi-Level Auto Air Conditioner and Pressurized Cab



The bi-level air conditioner allows air conditioning at foot space and overhead simultaneously. Airflow volume and direction can automatically be adjusted according to the temperature setting. The pressurized cab shuts out dust and debris even in dusty environment.

Hat (Resin Cab Roof)

8



Front / Rear Defrosters



With the front and rear defrosters, airflow comes out from three front air outlets and two rear outlets to protect respective windows from fogging, keeping clear vision even in rain and cold weather.

The hollow hat is provided atop the cab to form an air space. This greatly helps reduce the temperature rise in the cab, and increases the cooling efficiency of the air conditioner.

Shock-Dampened Cab



The cab rests on fluid-filled elastic mounts to absorb shocks and vibration, and reduce resonance.

Low Noise Design

The cab is well sealed, and the new lownoise engine is utilized to reduce sound, along with the following measures:

- Hydraulically operated cooling fan with heat-sensing system
- •Hitachi Silent (HS) fan
- •Sound-absorbing materials inside engine cover and cab
- •Clever arrangement of hydraulic oil tank and bulkhead

Ergonomically Positioned Switches and Controls



Switches and controls are efficiently laid out in the right console for ease of operation.

Down-Shift Switch (DSS) and Up-Shift Switch (USS)

DSS and USS are designed for one-gear down-shift and up-shift at the touch of a button.

An Array of Standard Accessories



ox



Large tray and drink

Panoramic Cab

The panoramic cab gives almost allround visibility with the widened front glass window and pillar less cab rear corners. Front wheels are always in the operator's vision, enhancing safety and increasing loading efficiency.

Operator-First Designs:

Operator Comfort

Easy-to-Handle Controls for

Enhanced Upward Visibility

The front curved glass window gives good upward visibility, so the operator can directly see the movement of the bucket for safer loading.

Good Rear Visibility

The engine cover is low profile, and rounded for better rear visibility, so the operator can directly see the rear wheels and counterweight.

Comfort-Designed Suspension Seat



The mechanical suspension seat well absorbs shocks and vibrations from the machine body to reduce operator's physical stresses for enhanced comfort.

The air suspension seat is an option.

Multi-Functional Joystick Lever (Optional)



The multi-functional joystick lever is provided atop of the control lever for operating ease.

Adjustable Steering Column



The steering wheel is tiltable, and telescopic to suit operator of all builds for comfortable operation.



ng Seatback pocket



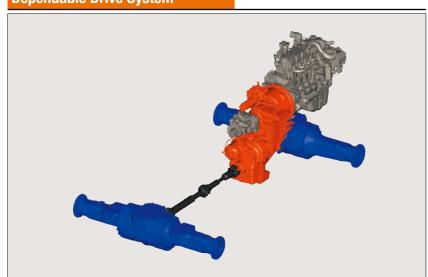


o Sun visor

Enhanced Durability

Durability is enhanced with a number of advanced mechanisms for long, continuous operation.

Dependable Drive System



Transmission

The transmission can effectively reduce the transmitting load. This helps reduce sound and extend service life, enhancing reliability.

Robust Differential Gears

Differential gears are thickened to increase rigidity.

New-Type Engine

The new-type engine, using rugged cylinder block, reduces vibration and increases durability.

Durable Axles

Front and rear axles are improved for durability. The axle housing is thickened for tough operation at quarries.

Improved Braking Ability

The brake is a wet-type multi-plate brake, and housed in the axle.

Variable Displacement Pumps

New variable displacement pumps are exclusively developed and designed for Hitachi wheel loaders for tough earthmoving.

Hydraulically Operated Cooling Fan with Heat- Sensing System



Fan speed can be adjusted depending on fluid temperature to effectively cool down coolant, hydraulic oil, transmission oil and torque converter oil. The result is extended component service life and reduction in fuel consumption. The fan is also separate from the engine for easy servicing.

Capacious Hydraulic Oil Cooler

The ample cooling capacity of the hydraulic oil cooler helps reduce oil temperature fluctuation, and extend service life of components.

Aluminum Radiator and Oil Cooler



The radiator and oil cooler are made of aluminum instead of conventional steel or copper for corrosion prevention.

LED Indicators and Instruments



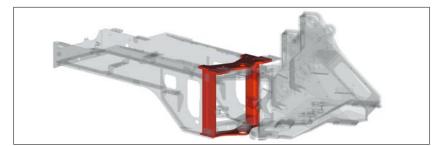
On the indicators, monitors and alarms, many LEDs are utilized for longer service life resulting in less failure, enhancing the reliability.

O-Ring Seal (ORS) Joints and Water-Resistant Electric Connectors



Numerous elaborate components are utilized for higher durability and reliability. The proven ORS joints and high-pressure hydraulic lines are utilized in the hydraulic system, and waterresistant wiring connectors in the electrical system.

Robust Frame



The box-section frame is thickened and strengthened to resist torsion and increase durability. Center pins are widely spaced for higher resistance to torsion.

Protected Fuel Tank



The large counterweight is arranged to protect the fuel tank from collisions with obstacles during operation.

Reduced Running Costs

Running and maintenance costs are reduced greatly with concentrated inspecting points and durable components.



Extended Hydraulic Oil Replacement Intervals (Up from 1 000 to 4 000 Hours)

Hitachi genuine hydraulic oil can quadruple hydraulic oil replacement intervals. A hydraulic oil drain hose is mounted standard.

Easy Draining

The engine oil drain port is located for the convenience of maintenance. No need for reaching under the machine.

Conveniently Located Filters



Fuel filter, fuel pre-filter with sedimentary function and engine oil filter are strategically located for the convenient daily inspection and servicing.

d Filters Easy-to-Replace Air Conditioning Filters





The fresh air filter can easily be replaced from the cab, and circulation air filter also replaced by detaching the drink holder.

HN Bushings

HN Bushing

The HN bushing, another example

metal. During operation oil oozes from the pores of the bushing into the clearance between pins and bushing

providing lubrication.

of innovative technology developed by Hitachi, features long life and high durability. High-viscosity oil is vacuum impregnated in sintered high-hardness



The HN bushing containing high-viscosity oil is provided at each joint to reduce grease consumption, extend lubrication intervals (100 to 500 hours), and increase durability.

▼ Oil oozed into clearance

HN Bushing

Flat Cab Floor



The cab floor is stepless (flat) for ease of cleaning.

Easy-to-Read Monitor



With the easy-to-read monitor, the operator can see instructions for scheduled servicing and maintenance. *Monitor Indication Items:*

Clock, service intervals, travel speed, mileage, hour meter

Replacement Alerting:

Engine oil / filter, fuel filter, hydraulic oil / filter, transmission oil / filter

Reversible Hydraulically Operated Cooling Fan



The rotation of the hydraulically operated cooling fan with heat-sensing system can be reversed for easy removal of dirt from the radiator. The fan itself can swing open for easy cleaning.

Strategically Located Fuel Supply Port



The fuel supply port is located for convenient fuel supply from the ground.

Dirt-Less (DL) Front Frame



The DL front frame is shaped for easy removal of dirt, stones and snow.

Safety-First Design

Achieving a High-Level of Safety in the Working Environment with an Array of Advanced Mechanisms



ROPS / FOPS Cab

The ROPS / FOPS cab is provided to protect the operator from injury in an ROPS: Roll-Over Protective Structure:

ISO3471

FOPS: Falling Object Protective Structure: ISO3449

Highly Reliable Dual-Line Brake System

The dual-line hydraulic brake system is utilized: even if one line fails, the other can work for braking. The brake is an enclosed wet multi-plate type for reliable braking.

Full Fan Guard



The cooling fan is enclosed by a full guard (metal net) to protect service technicians from injury during servicing and maintenance.

Emergency Steering System

The emergency electric pump delivers the necessary oil pressure for power steering even in the case of an emergency. This allows normal steering at all times even if the engine fails.

Mis-Operation Protection:

Starting Engine: The engine will start only when the Forward / Reverse lever in neutral.

Starting: The transmission is disabled when the parking switch is in the ON position, even if selecting Forward or

Leaving from Operator Seat: Control levers and Forward / Reverse lever are locked to prevent accidental operation.

Stopping Engine: The spring-set/ hydraulic-released parking brake is automatically applied even if failing to

Other Safety Features



Retractable Seat Belt



Inclined Ladder

Environmentally Friendly Design

A Cleaner Machine

The ZW Series is equipped with a clean but powerful engine to comply with Tier 3 and Stage III A. An engine emission regulations effective in the U.S. EPA and European Union from 2006. Exhaust gas is partly re-combusted to reduce particulate matter (PM) output and lower nitrogen oxide (NOx) levels.

Common Rail Type Fuel Injection System

In this fuel injection system complying with the Emission Regulations, one fuel pump runs to generate high pressure for distributing fuel to each injector per cylinder through a common rail. By electronic control, fuel injection volume and timing can be precisely regulated for efficient combustion and higher horsepower. This also reduces PM* (diesel plume), fuel consumption and vibration. *Particulate matter

Important: The use of fuels other than diesel fuel (JIS K-2204)(ASTM2-D) is prohibited. Otherwise, the engine may be damaged.

A Quieter Machine

A number of features make this machine quieter. First, isochronous control of the engine speed means a restriction of engine speed during no-load and light-duty operation to suppress sound. A fan with curved blades reduces air resistance and airflow noise. Third, a time-tested muffler suppresses engine noise significantly and reduces emissions. This advanced low noise design complies with the 2000 / 14 / EC, Stage II, directive effective in the European Union from 2006.

Hitachi Silent (HS) Fan



The HS fan is capable of reducing air resistance and air flow sound are utilized at the radiator and oil cooler for quieter operation.



A Recyclable Machine

Approximately 95% of the ZW Series can be recycled. The resin parts are marked to facilitate recycling. The machine is completely lead-free. The radiator and oil cooler are made from aluminum and all wires are lead-less. In addition, bio-degradable hydraulic oil is available for jobsites where special environmental care is required.

Low Noise Engine

Engine noise is effectively reduced by increasing engine mechanical strength with rigid cylinder block, and by utilizing the elaborate gear train on the flywheel

ENGINE

Model Cummins QSB6.7 ... 4-cycle water-cooled, direct injection ... Turbocharger and charge air cooled Aspiration

No. of cylinders Maximum power

ISO 9249,

Without Fan gross...... 128 kW (171 HP) at 2 200 min⁻¹ (rpm) EEC 80/1269,

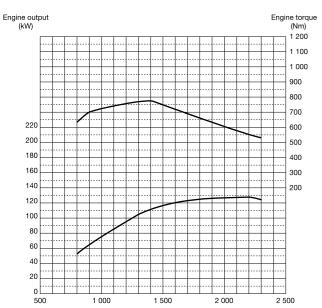
Without Fan gross...... 128 kW (171 HP) at 2 200 min⁻¹ (rpm)

Bore and stroke 107 mm x 124 mm

Piston displacement...... 6.690 L

Batteries 2 X 12 V / 1 005 CCA, 140 Ah

Air cleaner..... Two element dry type with restriction indicator



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
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* (km/h)	Forward / Reverse
1st	8.0 / 8.0
2nd	13.0 / 13.0
3rd	24.5 / 24.5
4th	38.0 / 38.0

AXLE AND FINAL DRIVE

16

Drive system	Four-wheel drive system			
Front & rear axle	Semi-floating			
Front	Fixed to the front frame			
Rear	Trunnion support			
Reduction and differential				
gear	Two stage reduction with torque proportional differential			
Oscillation angle	Total 24° (+12°,-12°)			
Final drives	Heavy-duty planetary, mounted inboard			

TIRES (tubeless,nylon body)

Drive system. 20.5-25-12PR (L3)

BRAKES

Service brakes . Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit

STEERING SYSTEM

Articulated frame steering Steering mechanism Refer to standard & optional equipment list Steering angle...... Each direction 40°: total 80° Cylinders..... Two double-acting piston type No. x Bore x Stroke 2 x 70 mm x 442 mm Minimum turning radius at the centerline of outside

...... 5 230 mm

HYDRAULIC SYSTEM

Lift arm and bucket are controlled by independent control lever Lift 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 / Steering pump Variable Displacement Axial Plunger Pump Charging pump / Fan pump / Brake and assist pump...... Fixed Displacement Type Gear Pump Hydraulic cylinders Type.... Two arm and one bucket, double acting type No. x Bore x Stroke....... Arm: 2 x 125 mm x 765 mm Bucket: 1 x 150 mm x 495 mm Filters Full-flow 15 micron return filter in reservoir Hydraulic cycle times Lift arm raise 5.7 s Lift arm lower 2.9 s Bucket dump 1.2 s Total...... 10.0 s

SERVICE REFILL CAPACITIES

	liters
Fuel tank	230.0
Engine coolant	26.0
Engine oil	25.0
Torque convertor & transmission	30.0
Front axle differential & wheel hubs	28.0
Rear axle differential & wheel hubs	28.0
Hydraulic oil tank	100.0

STANDARD EQUIPMENT

FNGINE

- Coolant recovery tank
- •Hydraulically Operated Cooling Fan with Heat Sensing System
- •Fan guard
- •Muffler, under hood with large exhaust stack
- •Environmentally friendly engine oil drain
- •Engine oil cooler
- •Quick-release fuel filter and water separator
- Air heater (For cold start)
- •Air filter double element •Fuel double filter
- •TT (Total Torque-control) system

POWER TRAIN

- •Automatic Transmission with Load-Sensing
- •DSS (Down-Shift Switch) and USS (Up-Shift Switch)
- •Torque proportioning differentials, front and rear •Driving mode selector switch, three modes
- •Clutch cut-off position switch, three position

HYDRAULIC SYSTEM

- •TT (Total Torque-control) system
- Bucket auto leveler
- Lift arm kick-out system
- Float system
- •Reservoir sight gauge
- •Hydraulic filters, vertical mounting
- •Two-lever(Fingertip control type) •Two-spool main control valve
- •O-Ring Seal joints

ELECTRICAL

- •24-volt electrical system
- •Standard batteries (2), 12-volt with 1 005 CCA, 140Ah
- Alternator, 65 A and 24-volts

- Driving with guards / Turn signals with
- hazard switch / stop, tail and back-up lights •Work lights on cab, front (2)
- •Work lights, rear (2)
- •Horn, with push button in center of steering wheel and switch on joystick lever knob or right console
- •Reverse warning alarm
- •Monitor and alarm system, multi-function electronic audible and visual warning include
- •LCD monitor display: Speedometer / Clock / Hour-meter / Odometer / Replacement intervals / Transmission Auto / Clutch cutoff / Ride control / Gear shift
- •Gauges: Engine coolant temperature /
- Transmission oil temperature / Fuel level
- •Warning lights: Engine / Transmission / Discharge warning
- •Indicator lights: Turn signals / High beam / Working lights / Service / Parking brake / Stop / Brake oil low pressure / Brake oil low level / Glow signal / Maintenance / Forward / Reverse switch / Over heat /
- Engine oil low pressure / Air filter restriction / Axle oil temperature / Hydraulic oil temperature /
- Transmission oil temperature / Fan reverse •24-volt AM/FM stereo radio with clock

OPERATOR'S STATION

- •ROPS* / FOPS** / Multi-plane isolation mounted for noise / Vibration reduction / Front and rear windshield washers / Safety glass
- Adjustable armrest
- Bi-level auto air conditioner and pressurize cab
- •Front / Rear defroster
- Hot and cool box
- Sun visor
- Seat(Grammer) fabric, high back, mechanical. suspension, adjustable for weight-height, foreaft position, backrest tilt, and armrest angle, seat

- cushion length and angle, lumber support
- Seatback pocket
- •Retractable seat belt, 50 mm

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

- •Large tray and drink holder
- •Rubber floor mat •Adjustable steering column
- •Steering wheel, textured with spinner knob
- •Rear view mirrors, outside (2) and inside (2)
- •Handrails and steps, ergonomically located and slip resistant
- Coat hook

LOADER LINKAGE

•Z-bar loader linkage provides (High bucket breakout)

BUCKETS AND ATTACHMENTS

Full line of Hitachi pin on buckets with selection of

- on cutting edges, and teeth-segmented bolt on edges •General purpose bucket with bolt-on cutting edges :
- 2.8 m³ (ISO heaped)

TIRES •Bias ply:

- 20.5-25-12 PR (L3)
- •Multi-piece rims

OTHERS

- •Fenders, front and rear
- •Articulation locking bar
- •Anti-vandal protection, includes lockable engine enclosure, and fuel fill
- •Counterweight, built-in
- •Drawbar, with rocking pin
- •Lift and tie-down hooks
- Open type rear grill

OPTIONAL EQUIPMENT

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

ENGINE •Air pre-cleaner

POWER TRAIN

•Limited slip differential

HYDRAULIC SYSTEM

- •Three-spool main control valve
- •Four-spool main control valve
- •Third spool piping
- Third and fourth spool piping
- •Multi-function joystick lever
- •Two-lever and auxiliary lever for third function
- •Two-lever and auxiliary joystick-lever for third & fourth function
- •Multi-function joystick lever and auxiliary lever for third function
- •Multi-function joystick lever and auxiliary joysticklever for third & fourth function
- •Ride control system, automatic type •Lift arm auto leveler

ELECTRICAL

- •High-capacity batteries (2), 12-volt with 1 146 COCA,
- •Alternator, high capacity, 90 A and 24-volt
- •Front Working Lamps on Cab (2)
- •Rear Working Lamp on Cab (2) •12-volt outlet
- •Installation kit for radio, fused 24-volt radio electrical lead, speaker (2), and antenna

OPERATOR'S STATION

- •Seat(Grammer), fabric, high back, air suspension. seat heating, adjustable for weight-height, fore-aft position.
- backrest tilt, and armrest angle, seat cushion length and angle, headrest height and angle adjustment. lumber support
- •Seat(Kab), fabric, high back, mechanical suspension, adjustable for weight-height, fore-aft position. backrest tilt, and armrest angle
- Headrest for Grammer seat Headrest for Kab seat
- •Retractable seat belt, 76 mm

LOADER LINKAGE

•High-lift arm

BUCKETS AND ATTACHMENTS

- •General purpose bucket with bolt on teeth: 2.7 m³ (ISO heaped)
- •General purpose bucket with bolt on cutting edge : 3.0 m³, 3.3 m³ (ISO heaped)
- •Rock bucket with bolt on teeth : 2.2 m3 (ISO heaped) Quick coupler and hydraulic control system for quick coupler locking pins, includes all controls in the cab,
- lines, and valves •Full line of Hitachi buckets for quick coupler with
- selection of bolt-on cutting edges, and bolt-on teeth •Full line of construction utility forks, and attachments
- •Fork: Pin on type •Fork : Coupler type
- •Log grapple : Pin on type

Note: *: ROPS (Roll Over Protective Structure) Conforms to ISO 3471:1994

** : FOPS (Falling Objects Protective Structure) Conforms to ISO 3449; 1992 Level all

TIRES

•Radial plv : 20.5R25 (L3) 20.5R25 (L5)

OTHERS

- •Bucket cylinder rod guard
- Auto lubrication system •Bottom guards, front frame and transmission
- •Full rear fender and mud guard Biodegradable hydraulic oil
- •Fire extinguisher (Dealer installed)
- •Emergency steering system



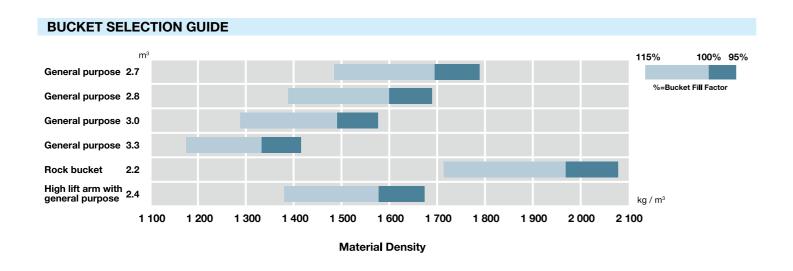
DIMENSIONS & SPECIFICATIONS

					Standard Arm			High lift Arm
Bucket type			General purpose			Rockbucket	General purpose	
				With bolt-on cutting edges		With bolt-on teeth	With bolt-on teeth	With bolt-on cutting edges
Duelet consoits	ISO heaped	m ³	2.8	3.0	3.3	2.7	2.2	2.4
Bucket capacity	ISO struck	m ³	2.4	2.6	2.9	2.3	1.9	2.1
A Overall length	•	mm	7 610	7 660	7 740	7 760	7 640	7 990
A' Overall length (Traveling figure)		mm	7 530	7 560	7 610	7 630	7 550	7 920
B Overall height	B Overall height r		3 280					
C Width over tires		mm	2 610					
D Wheel base		mm	3 050					
E Ground clearance mm		mm	395					
F Tread		mm	mm 2 050					
G Bucket width	G Bucket width mm		2 690					
H Turning radius (Centerline of outside tire) mm		mm	5 230					
H' Loader clearance circle, be	ucket in carry position	mm	6 100	6 120	6 140	6 150	6 110	6 280
I Overall operating height		mm	5 290	5 340	5 420	5 285	5 230	5 580
J Height to bucket hinge pin, fully raised		mm	3 920	3 920	3 920	3 920	3 920	4 320
K Dumping clearance 45 de	gree, full height	mm	2 790	2 760	2 710	2 690	2 770	3 290
L Reach, 45 degree dump, t	full height	mm	1 070	1 100	1 150	1 150	1 070	1 130
M Digging depth (Horizontal digging angle)		mm	100 110 110			170		
N Max. roll back at carry pos	sition	deg 50						
	Straight	kN	113	112	116	114	110	95
Static tipping load *		(kgf)	(11 480)	(11 430)	(11 370)	(11 660)	(11 170)	(9 710)
	Full 40 degree turn	kN	97	97	96	99	94	82
		(kgf)	(9 910)	(9 870)	(9 800)	(10 080)	(9 590)	(8 360)
Breakout force		kN	119	114	107	130	143	122
		(kgf)	(12 140)	(11 630)	(10 910)	(13 260)	(14 590)	(12 440)
Operating weight *		kg	14 280	14 320	14 370	14 220	14 710	14 690

Note:1. All dimensions, weight and perfomance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983

2. Static tipping load and operating weight marked with* include 20.5-25-12PR (L3) tires (No ballast) with lubricants, full fuel tank and operator.

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



MEMO





These specifications a	are subject to	change without notice.
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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

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