HITACHI

ZW 140

WHEEL LOADER

- **Model Code:** ZW140
- **Operating Weight:** 10 240 - 10 540 kg
- **Bucket Capacity:** ISO Heaped : 1.5 - 2.3 m^3
- **Engine Power:** 96 kW (129 HP)

Wheel Loaders:

ZW Series

Light, Agile Footwork Plus Increased Productivity

The ZW140 is packed with numerous innovative technologies and mechanisms. The electronic control HST system makes possible light, agile footwork. Four work modes can be selected according to job needs, with best matching of traction force and breakout force. What's more, the ZW140 offers more impressive features: operating ease, enhanced safety, increased durability, and simplified maintenance.

- **The engine complies with the Emission Regulations U.S EPA Tire3, and EU Stage III A**
- **The advanced low noise design**

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

Increased Productivity with Advanced HST System, an Hitachi Original Technology

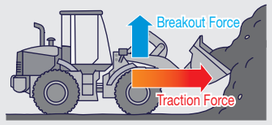
Optimum traction force can be selected to suit job needs by electronic matching control. The HST system is further improved for increased job efficiency.

Four work modes selectable to suit job needs

Work mode select switch

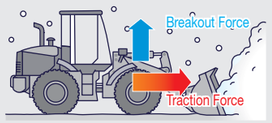
On the ZW140, four work modes are selectable according to job requirements and operator's preference. In each work mode, electronic matching control, originally developed by Hitachi, detects the pressure of the implement, and controls the torque of travel motor to best match traction force and breakout force. This increases production per unit of fuel.

Normal Operation (Work P, N and L Modes)



Efficient loading with optimum traction force to suit job needs

Snow Plowing (Work S Mode)

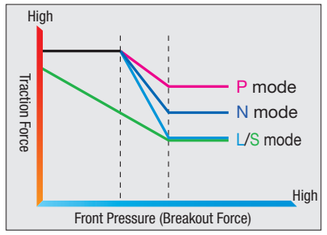


Efficient snow plowing with optimum traction force, reducing slippage on snow

Four Work Modes

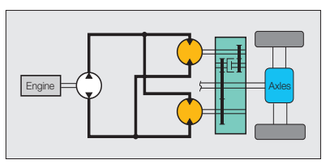
Work Modes	Materials to Be Handled
P mode (Scooping up and crowding)	• Relatively large crushed stones • Concrete slag • Stone with large specific gravity, clayey soil
N mode (Normal operation)	• Small crushed stones • Gravel • Cobble • Sand • Plastics, industrial wastes, chips
L mode (Loading and light excavation)	
S mode (Snow plowing and swamp operation)	• Snow

Matching Control



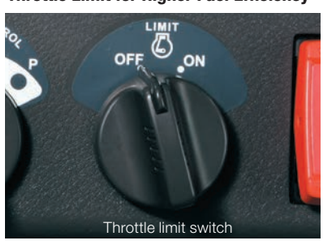
Traction force and front pressure are well balanced by work mode. If you need big traction force, select the P mode.

2-Motor HST System for Powerful Acceleration and Higher Travel Speed (Maximum 39 km/h)



The two-motor HST system is newly developed to achieve high-efficient operation in a wide speed range. For instance, at a low speed, two motors yield high traction torque, while at a high speed, a single motor allows for high travel speed of 39 km/h. Moreover, this system makes possible easy slope climbing and smooth acceleration/deceleration with the accelerator pedal only.

Throttle Limit for Higher Fuel Efficiency



Throttle limit switch

The throttle limit cuts maximum engine speed by 10% for higher fuel efficiency. For the HST system, maximum traction force is not reduced with the reduction in engine speed.

Throttle limit switch		*ON
Fuel consumption	(L/h)	88 %
Production	(m^3/h)	93 %
Fuel efficiency	(m^3/L)	106 %

*Index: 100 = Throttle limit switch OFF
Note: Data shown is Hitachi test data, and may vary depending on job conditions.

Improved Fundamental Performance

Big Traction Force

Traction force	kN	87
Bucket breakout force	kN	92

Big Dumping Clearance and Reach (when 2.0 m^3 bucket with BOC is fitted)

Dumping clearance	2 840 mm
Dumping reach	900 mm

Smooth Speed Shift by Electronic Control

Speed shift can be continuously made by electronic control through the 2-motor HST system comprising helical gears. This allows for speedy job-to-job travel with less soil spills in load-and-carry operation.

High-Torque Engine

Max. output : 96 kW (129 HP)

Max. torque : 540 N·m (55 kgf·m)

The engine is ruggedly designed to yield big torque with less vibration for increased durability. This facilitates climbing steep slopes and long uphills with limited speed drop. This engine is a clean engine that complies with the latest global emission regulations.

Torque Proportional Differential (Standard)

The torque proportional differential adjusts driving forces to both wheels. When road resistances under both wheels are different, this feature minimizes 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.

Agile Footwork for Increased Productivity

Fast, light footwork. Speed selection to suit job needs. Improved controllability and combined operations. Those bring about high productivity.

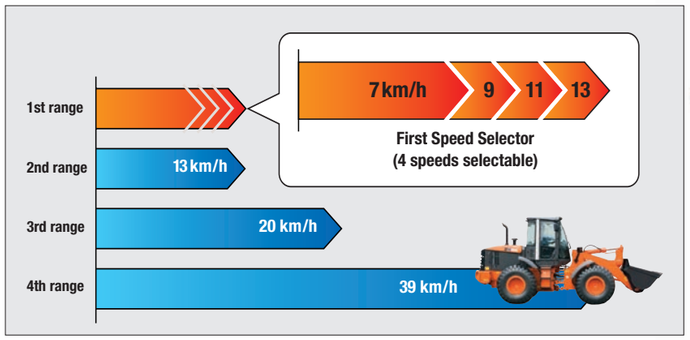
Advanced Speed Selector for Four Maximum Speeds

The fully automatic HST system is utilized for the selection of four maximum speeds according to job needs. Optimum speed can be selected with less shocks for smooth travel.

The First Speed Selector for Efficient Loading and Operations in Confined Space

1st speed select switch

When the first speed range is selected, four travel speeds can be further selected to suit job needs and jobsite conditions. No need for skilful control of the accelerator and brake.



Inching Pedal for Easy Positioning in Confined Space

The operator can easily control travel speed with the inching pedal, regardless of the accelerator pedal, by adjusting the delivery flow from the hydraulic pump. This eases positioning in loading operation.

Hydraulic Circuit for Smoothly Combined Operation

With the parallel/tandem hydraulic circuit, the lift arm and bucket can be operated simultaneously. This is a new function to increase loading and excavating efficiency.

Sophisticated Mechanisms for Higher Job Efficiency

Float System

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

Lift Arm Kick-Out System (Optional)

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.

Bucket Auto Leveler

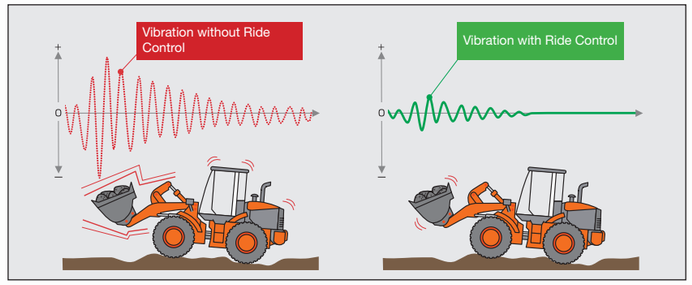
The bucket can automatically be leveled parallel to the ground after dumping the bucket. This can eliminate cumbersome bucket repositioning for efficient loading.

Operator-Friendly Designs for Higher Job Efficiency

Restriction Valve

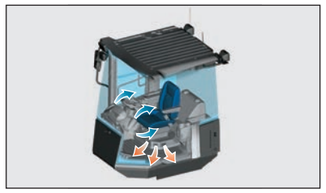
The restriction valve can effectively reduce shocks when stopping the lift arm. The bucket does not have a shockless circuit to allow efficient mud removal.

Ride Control System (Optional)



The ride control reduces pitching and bouncing during traveling on rough terrain and snow road by automatic control of the implement. Shocks and vibration can be well suppressed for riding comfort.

Bi-Level Auto Air Conditioner and Pressurized Cab

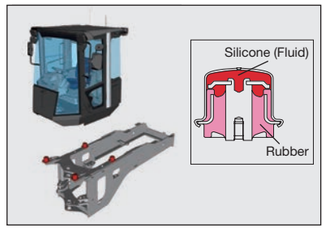


The bi-level air conditioner allows air conditioning at foot space and overhead simultaneously. Airflow volume and direction can automatically be adjusted according to the temperature setting. The pressurized cab shuts out dust and debris even in dusty environment.

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.

Shock-Dampened Cab



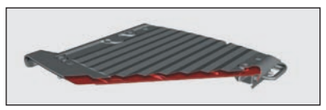
The cab rests on fluid-filled elastic mounts to absorb shocks and vibration, and reduce resonance.

Low Noise Design

The cab is well sealed, and the low-noise 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

Hat (Resin Cab Roof)



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.

Operator-First Designs: Easy-to-Handle Controls for Operator Comfort

Panoramic Cab

The panoramic cab gives almost all-round 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.

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.

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.

Ergonomically Positioned Switches and Controls

The switches for pre-operation setting are on the right console, and the switches for operation and travel on the front console. They are functionally laid out for ease of operation.

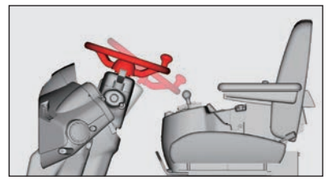
Good Rear Visibility

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

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 to suit operator of all builds for comfortable operation.

An Array of Standard Accessories

Hot and cool box

Large tray and drink holder

Interior light interacting with cab door

Seatback pocket

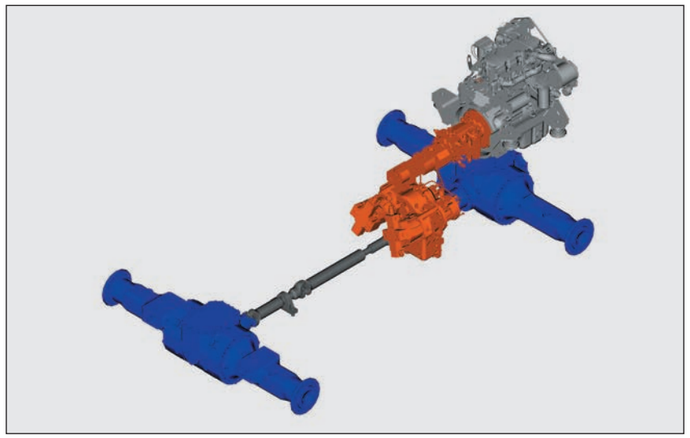
AM / FM stereo radio

Sun visor

Enhanced Durability

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

Dependable Drive System



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

Robust Differential Gears
Differential gears are thickened to increase rigidity.

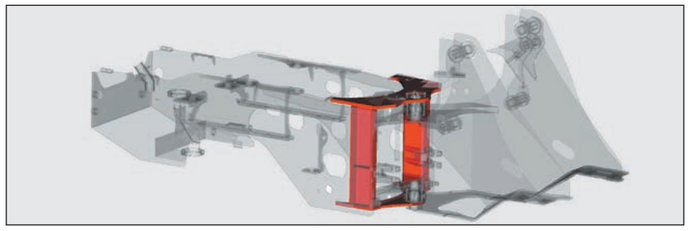
Improved Braking Ability
The brake is a wet-type multi-plate brake, and housed in the axle.

Hydraulically Operated Cooling Fan with Heat- Sensing System

Fan speed can be adjusted depending on fluid temperature to effectively cool down coolant and hydraulic 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.

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.

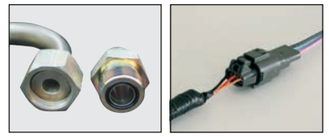
Aluminum Radiator and Oil Cooler

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 water-resistant wiring connectors in the electrical system.

Reduced Running Costs

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

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.

Conveniently Located Filters

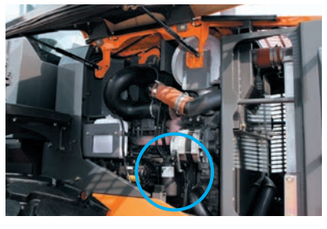
Fuel filter, fuel pre-filter with sedimentary function and engine oil filter are strategically located for the convenient daily inspection and servicing.

Extended Engine Oil Replacement Intervals (Up from 250 to 500 Hours)

Engine oil capacity and filter capacity are increased for longer filter replacement intervals, reducing maintenance time and downtime.

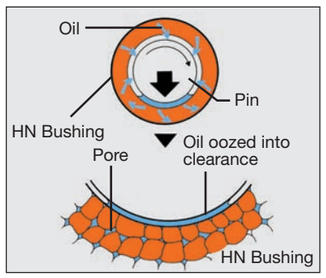
Easy Draining

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



HN Bushings

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.



The HN bushing, another example of innovative technology developed by Hitachi, features long life and high durability. High-viscosity oil is vacuum impregnated in sintered high-hardness metal. During operation oil oozes from the pores of the bushing into the clearance between pins and bushing providing lubrication.

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, Axle oil.

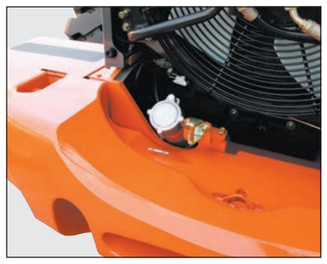
Flat Cab Floor

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

Hydraulically Operated Cooling Fan

The rotation of the hydraulically operated cooling fan with heat-sensing system is equipped as standard. 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 accident.
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 single-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 Reverse.
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 apply it.

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. 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 (EN590) is prohibited. Otherwise, the engine may be damaged.

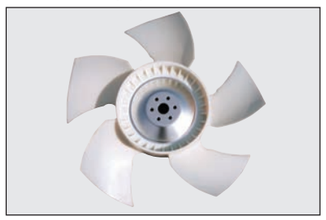
A Recyclable Machine

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.

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.

Hitachi Silent (HS) Fan



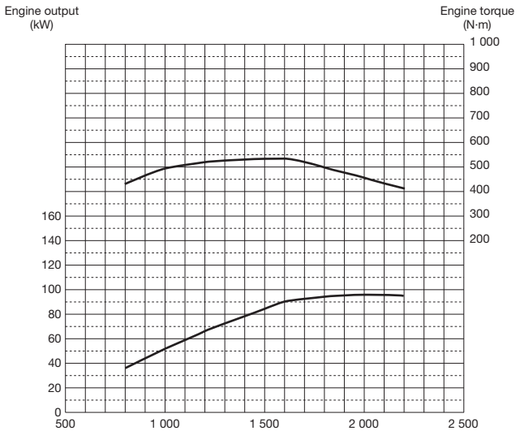
The HS fan is capable of reducing air resistance and air flow sound are utilized at the radiator and oil cooler for quieter operation.

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 side.

SPECIFICATIONS

ENGINE

Model	Cummins QSB4.5
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and charge air cooled
No. of cylinders	4
Maximum power	
SAE J1349/ISO 9249, net	96 kW (129 HP) at 2 000 min^{-1} (rpm)
Bore and stroke	107 mm x 124 mm
Piston displacement	4.46 L
Batteries	2 x 12 V 620CCA, 80Ah, 140-min rated reserve
Air cleaner	Two element dry type with restriction indicator



POWER TRAIN

Transmission	Electrical-controlled 2 motor hydrostatic transmission with summation gear box Gear box: Fixed gear ratio, powershift countershaft type
Cooling method	Forced circulation type
Travel speed* (km/h)	Forward / Reverse
1st	7.0 / 7.0
2nd	13.0 / 13.0
3rd	20.0 / 20.0
4th	39.0 / 39.0

** With 17.5-25-12PR (L3) tires*

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Center pivot
Reduction and differential gear	Two stage reduction with torque proportioning differential
Oscillation angle	Total 20° (+10°,-10°)
Final drives	Planetary final drive

TIRES (tubeless, nylon body)

Standard	17.5-25 12PR (L3)

BRAKES

Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brake HST(Hydro Static Transmission) system provides additional hydraulic braking capacity
Parking brake	Spring applied, hydraulically released, wet disc type with drive through prevention mechanism

STEERING SYSTEM

Type	Articulated frame steering
Steering mechanism	Fully hydraulic power steering with orbitrol
Steering angle	Each direction 40° ; total 80°
Relief pressure	19.6 MPa (200 kgf/cm^2)
Cylinders	Two double-acting piston type
No. x Bore x Stroke	2 x 65 mm x 419 mm
Minimum turning radius at the centerline of outside tire	4 950 mm

HYDRAULIC SYSTEM

Arm and bucket are controlled by Joystick lever

Arm controls	Three position valve ; Raise, lower, float
Bucket controls with automatic bucket return-to-dig controls	Three position valve ; Roll back, hold, dump
Main pump (Load & steer)	Gear type 159 L/min @2 200 min^{-1} (rpm) at 20.6 MPa (210 kgf/cm^2)
Relief pressure setting	20.6 MPa (210 kgf/cm^2)
HST charging pump	Gear type 41L /min @2 200 min^{-1} (rpm) at 2.5 MPa (25 kgf/cm^2)
Transmission charging pump	Gear type 17 L/min @2 200 min^{-1} (rpm) at 1.96 MPa (20 kgf/cm^2)
Fan pump	Gear type 30 L/min @2 200 min^{-1} (rpm) at 11.8 MPa (120 kgf/cm^2)
Hydraulic cylinders	
Type	Two arm and one bucket, double acting type
No. x Bore x Stroke	Arm : 2 x 125 mm x 620 mm Bucket : 1 x 150 mm x 445 mm
Filters	Full-flow 10 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise	6.0 s
Lower	3.0 s
Bucket dump	1.3 s
Total	10.3 s

SERVICE REFILL CAPACITIES

Fuel tank	180.0 L
Engine coolant	25.0 L
Engine oil	14.0 L
Transmission gear box	10.0 L
Front axle differential & wheel hubs	24.0 L
Rear axle differential & wheel hubs	25.0 L
Hydraulic reservoir tank	80.0 L

EQUIPMENT

STANDARD EQUIPMENT

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

ENGINE

- 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
- Fuel Filter
- Quick-release fuel pre-filter with water separator function
- Air heater (For cold start)
- Air filter double element

POWER TRAIN

- Electrically controlled HST system
- Torque proportioning differentials, front and rear

HYDRAULIC SYSTEM

- Bucket auto leveler
- Float system
- Reservoir sight gauge
- Hydraulic filters, vertical mounting
- Joystick lever
- Two-spool main control valve
- O-Ring Seal joints

ELECTRICAL

- 24-volt electrical system
- Standard batteries (2), 12-volt with 620CCA, 80 Ah
- Alternator, 65 A and 24-volts
- Lights: 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 / Ride control /Speed range
- Gauges: Engine coolant 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 / Seat belt / Glow signal / Maintenance / Forward / Reverse switch / Water separator / Over heat / Engine oil low pressure / Air filter restriction / Hydraulic oil temperature /
- 24-volt AM/FM stereo radio with clock

OPERATOR'S STATION

Cab
- 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(Kab), fabric, high back, mechanical suspension, adjustable for weight-height, fore-aft position,backrest tilt, and armrest angle
- Seatback pocket
- Retractable seat belt, 50 mm
- 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

- General purpose bucket with bolt-on cutting edges: 2.0 m^3 (ISO heaped)

TIRES

- 17.5-25-12PR (L3)
- Single-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
-Reverse rotating cooling fan

POWER TRAIN

- Limited slip differential

HYDRAULIC SYSTEM

- Three-spool main control valve
- Third spool piping
- Joy stick-lever and auxiliary lever for third function
- Multi-functional joystick lever
- Multi-functional joystick lever and auxiliary lever for third function
- Ride control system, automatic type
- Lift arm kick-out system
- Lift arm auto leveler

ELECTRICAL

- Front Working Lamps on Cab (2)
- Rear Working Lamp on Cab (2)
- 12-volt outlet

BUCKETS AND ATTACHMENTS

- High lift arm
- Buckets (See pages 18-19)

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
- Headrest for Grammer seat
- Headrest for Kab seat
- Retractable seat belt, 76 mm

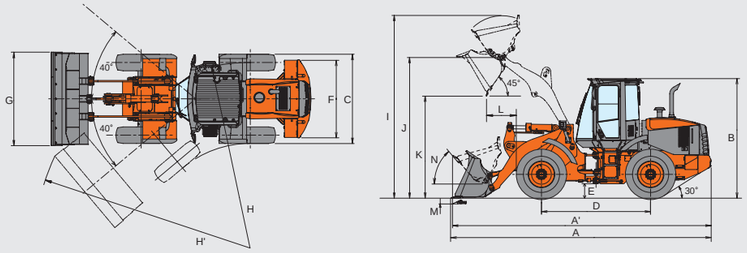
OTHERS

- Full rear fender and mud guard
- Rear license plate bracket
- Wheel blocks
- High lift arm
- Emergency steering system
- Bottom guards, front frame and transmission

*Note: *: ROPS (Roll Over Protective Structure) Conforms to ISO 3471:1994*
***: FOPS (Falling Objects Protective Structure) Conforms to ISO 3449:1992 Level all*

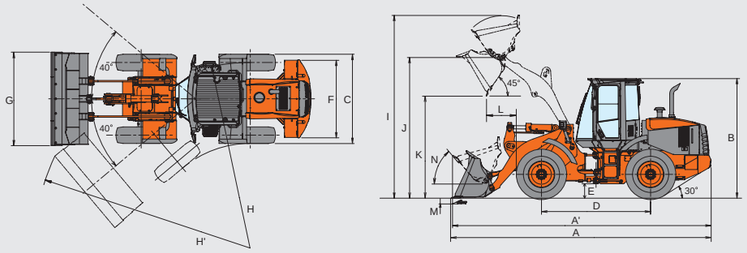
SPECIFICATIONS

DIMENSIONS & SPECIFICATIONS



Bucket type			Standard Arm		
			General Purpose		
			With bolt-on cutting edges	With bolt-on teeth	With bolt-on cutting edges
Bucket capacity	ISO heaped	m^3	2.0	1.9	2.3
	ISO struck	m^3	1.6	1.6	1.9
A Overall length		mm	6 910	7 040	7 010
A' Overall length (Traveling figure)		mm	6 870	6 960	6 930
B Overall height		mm	3 170		
C Width over tires		mm	2 390		
D Wheel base		mm	2 900		
E Ground clearance		mm	380		
F Tread		mm	1 930		
G Bucket width		mm	2 480		
H Turning radius (Centerline of outside tire)		mm	4 950		
H' Loader clearance circle, bucket in carry position		mm	5 740	5 770	5 760
I Overall operating height		mm	4 950	4 950	5 040
J Height to bucket hinge pin, fully raised		mm	3 730	3 730	3 730
K Dumping clearance 45 degree, full height		mm	2 790	2 700	2 720
L Reach, 45 degree dump, full height		mm	950	1 030	1 020
M Digging depth (Horizontal digging angle)		mm	110	120	110
N Max. roll back at carry position		deg	50		
Static tipping load *	Straight	kg	8 050	8 170	7 990
	Full 40 degree turn	kg	6 970	7 090	6 910
Breakout force		kN (kgf)	96 (9 790)	104 (10 600)	87 (8 870)
Operating weight *		kg	10 290	10 240	10 330

Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983
2. Static tipping load and operating weight marked with include 17.5-25-12PR (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.*

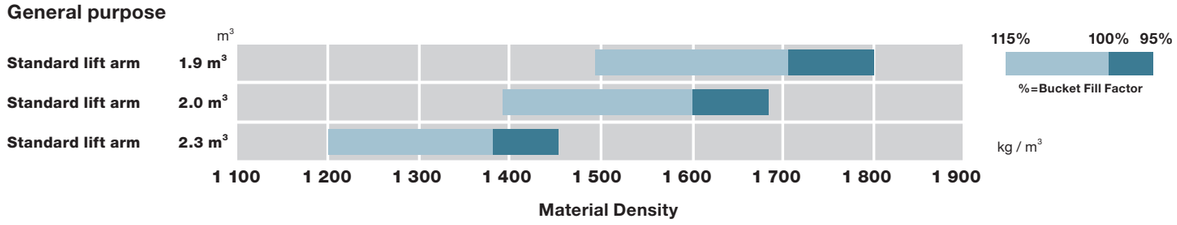


Bucket type			High Lift Arm	
			General Purpose	
			With bolt-on cutting edges	With bolt-on teeth
Bucket capacity	ISO heaped	m^3	1.6	1.5
	ISO struck	m^3	1.3	1.2
A Overall length		mm	7 240	7 360
A' Overall length (Traveling figure)		mm	7 220	7 300
B Overall height		mm	3 170	
C Width over tires		mm	2 390	
D Wheel base		mm	2 900	
E Ground clearance		mm	380	
F Tread		mm	1 930	
G Bucket width		mm	2 480	
H Turning radius (Centerline of outside tire)		mm	4950	
H' Loader clearance circle, bucket in carry position		mm	5 890	5 930
I Overall operating height		mm	5 140	
J Height to bucket hinge pin, fully raised		mm	4 090	
K Dumping clearance 45 degree, full height		mm	3 250	3 160
L Reach, 45 degree dump, full height		mm	1 020	1 090
M Digging depth (Horizontal digging angle)		mm	200	210
N Max. roll back at carry position		deg	50	
Static tipping load *	Straight	kg	6 300	6 410
	Full 40 degree turn	kg	5 430	5 530
Breakout force		kN (kgf)	114 (11 620)	124 (12 640)
Operating weight *		kg	10 540	10 480

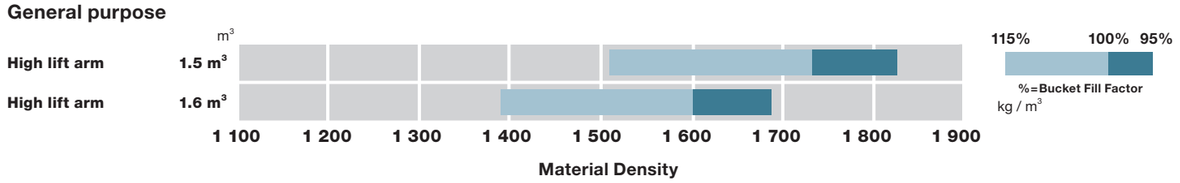
Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983
2. Static tipping load and operating weight marked with include 17.5-25-12PR (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.*

BUCKET SELECTION GUIDE

General purpose



General purpose



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 colour and features.
Before use, read and understand the Operator's Manual for proper operation.

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