HITACHI

Reliable solutions

ZW100Tier 4 Final Certified

101 hp 74 kW Engine Output, Max, Gross (ISO 14396) **96 hp** 71 kW Engine Output, Max, Net (ISO 9249) **1.7 yd³** 1.3 m³ Bucket capacity

16,140 lbs 7,320 kg Operating weight

ZW120Tier 4 Final Certified

101 hp 74 kW Engine Output, Max, Gross (ISO 14396) **96 hp** 71 kW Engine Output, Max, Net (ISO 9249) **2.0 yd³** 1.5 m³ Bucket capacity **18,590 lbs** 8,430 kg Operating weight



NO COMPROMISE

Offering exceptional levels of performance without compromising on efficiency, Hitachi ZW-6 wheel loaders are designed to satisfy the requirements of the North American construction industry.

Designed to be reliable, durable and versatile for a variety of job sites, and to operate with low levels of fuel consumption, they incorporate the highquality engineering for which Hitachi is renowned.





6. FIRST FOR RELIABILITY



8. DEDICATED TO DURABILITY



DEMAND PERFECTION

Designed and built with an emphasis on the environment, operator comfort and safety, the ZW-6 wheel loaders have been developed to perfection. They incorporate industry-leading technology created in Japan to meet the highest standards for performance at the lowest possible costs of ownership.



Powerful performance

Quick power switch increases engine output when required.



Industry-leading safety 360° visibility from the cab.



Smooth operation

Ride control minimizes machine pitching.



Easy to operate

The hydrostatic transmission enhances versatility and increases productivity.



Superior comfort Spacious cab with several

storage compartments.



FIRST FOR RELIABILITY

Renowned for reliability, Hitachi ZW-6 wheel loaders achieve exceptional levels of performance and efficiency with minimum downtime. The ZW100-6 and ZW120-6 have been designed with several user-friendly features that ensure quick and easy maintenance, and also contribute to lower running costs.

Minimal downtime

The battery compartment can be accessed easily for maintenance and battery replacement. This results in minimal downtime and a high level of accessibility.

Quick access

The side engine cover opens fully for convenient access. This helps to ensure routine maintenance is completed quickly to ensure a reliable performance.

Improved fuel efficiency

The ZW-6 demonstrates greater fuel efficiency than the previous model during V-shape loading and load and carry

operations. This results in considerable savings for running costs.

Easy maintenance

For safer and easier maintenance, the battery disconnect switch is now standard. This helps to avoid electrical accidents and retain battery energy during long-term storage.

Reduced cost

The new Tier 4 Final certified engine does not require a diesel particulate filter, which further reduces fuel consumption and maintenance costs.



Easy access to the engine compartment.







The final pre-delivery inspection procedure for each Hitachi wheel loader is typical of Hitachi's dedication to manufacturing products of unfailing quality in response to customer needs.



DEDICATED TO DURABILITY

Strengthened components, robust materials and additional reinforcement for key features ensure the durability. They also contribute to its reliable operation, particularly when working in challenging environments.





The optional belly guard provides added protection.

Added protection

The optional belly guard protects the machine powertrain and driveshaft from potential damage caused by materials on the ground.

Strengthened components

Heavy-duty axles, designed in-house, have been incorporated into the design to improve durability.

Durable materials

High-quality radiators improve resistance to corrosion and enhance the overall durability.

Maximum uptime

Standard cooling cores are designed with wide spaced square-shaped fins, instead of triangular-shaped fins to resist clogging. This reduces cooling cores maintenance.



INCREDIBLE VERSATILITY

ZW-6 wheel loaders are often described as a perfect fit by Hitachi customers, which illustrates their versatility for a wide range of applications and job sites. In addition, they are smooth and efficient to operate, and offer increased productivity and greater fuel efficiency.

Efficient flexibility

The quick power switch increases engine output when more power is instantly required, or when driving uphill.

Enhanced rear visibility

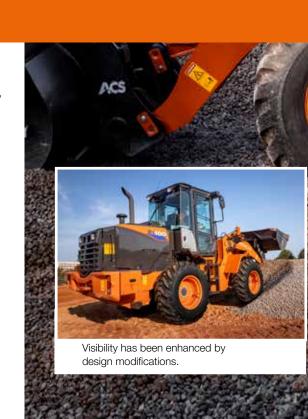
The muffler and air intake have been repositioned and aligned to improve the rear-view visibility from the cab, enhancing safety on a variety of job sites.

High efficiency

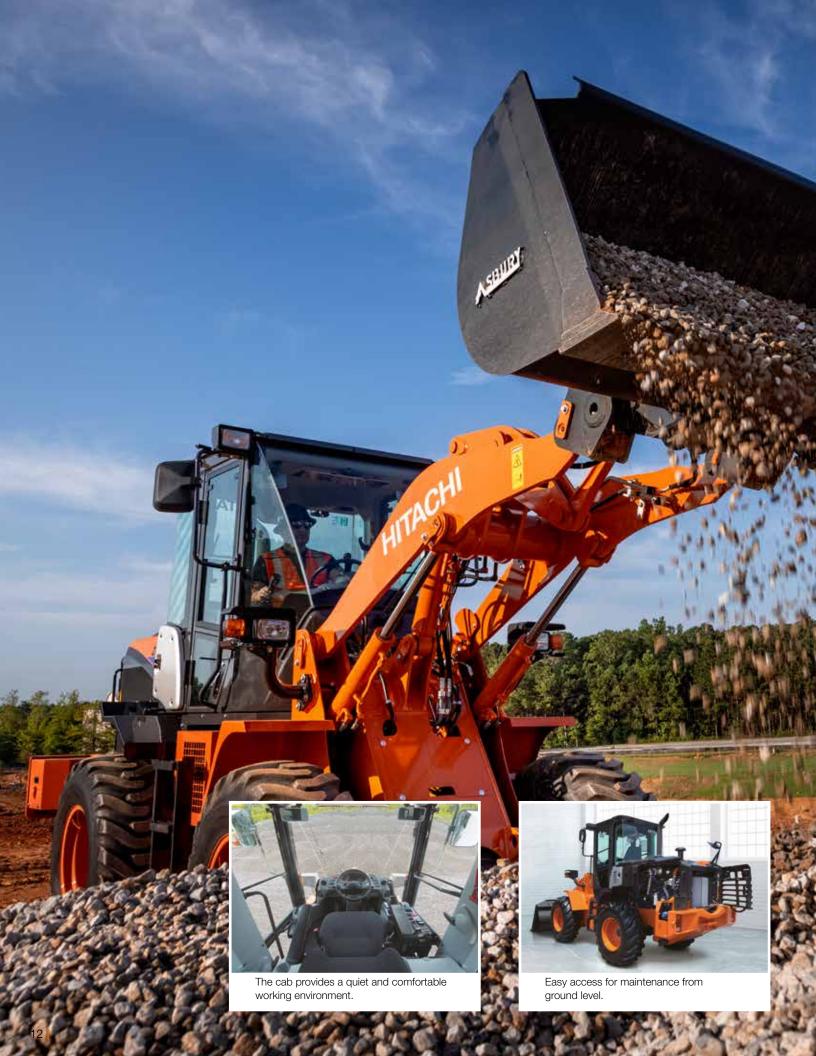
When working in snowy, slippery or muddy conditions, the traction control system helps to avoid tire slippage, and ultimately prevents wear and fuel waste, and lowers running costs. It is highly effective for light applications.

Superior performance

The rimpull control system allows for a superior digging performance by striking a balance between rimpull and front digging force. Rimpull can be adjusted to varying degrees, depending on the work mode.









Hitachi conducts user tests in Japan to assess the features of its wheel loaders. Results have revealed an unrivaled level of control.



INDUSTRY-LEADING QUALITY

To set industry-leading standards in terms of performance, reliability, comfort and safety, the ZW100-6 and ZW120-6 have been built using components of the highest quality. Its clever design offers 360° visibility from the cab and ensures it is one of the quietest wheel loaders in its class.





The optional rear-view camera contributes to all-round visibility.

Reduced emission

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

Easy access

The engine air filter has been relocated to the rear of the engine compartment, providing easier access at ground level for maintenance. The urea tank is also positioned for convenience.

Excellent visibility

The 360° panoramic view of the spacious cab creates a comfortable working environment, and helps to increase safety and productivity. The optional rear-view camera also contributes to excellent all-round visibility and safety on the job site.

Improved comfort

Sound insulation has been improved in the cab to significantly reduce noise levels and provide a quieter working environment for operators. The low-noise engine also results in a quieter performance, which makes it suitable for working in urban areas.

UNIQUE TECHNOLOGY

Advanced technology developed by Hitachi is at the heart of the ZW-6 wheel loaders. It has an impact on everything, from the wheel loader's environmental performance to the comfort and safety of its operator. A technology-led approach enables Hitachi to meet the evolving needs of the construction industry, and improve the experience of its customers.

Reduced maintenance

A new Tier 4 Final certified engine contains a high-volume cooled exhaust gas recirculation (EGR) system, a common rail-type fuel injection system and a diesel oxidation catalyst (DOC). This helps to reduce fuel costs and maintenance requirements.

Smaller environmental impact

The standard auto idle shutdown feature* helps to prevent fuel waste, as well as reduce noise levels, exhaust emissions and CO₂ levels in the medium wheel loaders.

Optimum performance

The 1st speed select switch in combination with the creep mode switch* optimize the usage on different job sites and with hydraulic attachments.

Remote monitoring

Global e-Service allows the owners to monitor their Hitachi machines remotely via Owner's Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximize efficiency, minimize downtime and improve overall performance.

Smooth operation

The ZW100-6 and ZW120-6 are easy to maneuver thanks to the HST control system. The operator can choose between two work modes according to the task and terrain, and it enables a smooth transition between speeds.



REDUCING THE TOTAL COST OF OWNERSHIP

Hitachi has created the After Sales Solutions Program to ensure optimum efficiency, as well as minimal downtime, reduced running costs and high resale values.

Global e-Service

Hitachi has developed two remote monitoring systems as part of its Global e-Service online application. Owner's Site and ConSite are an integral part of the wheel loader, which sends operational data daily via GMS to www.globaleservice.com. This allows immediate access to the Owner's Site, and the vital information that is required for support on job sites.

Comparing the ratio of operating and non-operating hours helps to enhance efficiency. Effective management of maintenance programs helps to maximize availability. Running costs can also be managed by analyzing the fuel consumption. The location and movements of each machine are clearly displayed for essential planning.

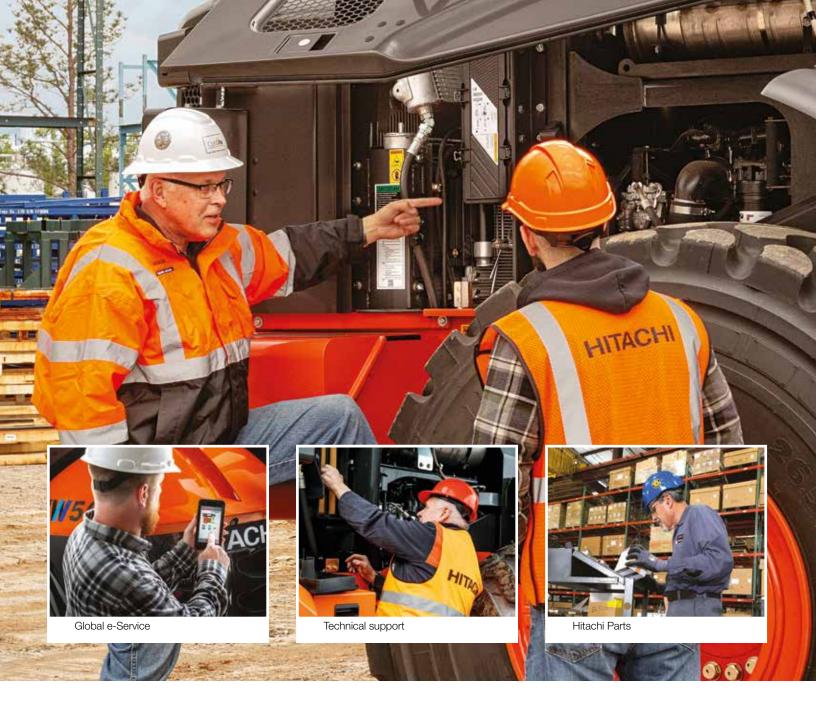
An automatic service report — ConSite — sends a monthly email summarizing the information from Global e-Service for each machine. This includes: daily working hours and fuel consumption data; statistics on the operating mode ratio, plus a comparison for fuel consumption/efficiency, and emissions.

Technical support

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

Extended warranty and service contracts

Every new Hitachi ZW-6 model is covered by a full manufacturer's warranty. For extra protection — due to severe working



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

Parts

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

- Hitachi Genuine Parts: allow machines to work longer, with lower running and maintenance costs.
- Hitachi Select Parts and Genuine Parts: are of proven quality and come with the manufacturer's warranty.
- Performance Parts: to cope with highly demanding conditions, they have been engineered for greater durability, better performance or longer life.
- Genuine Hitachi rebuilt components are available from HCMA's in-house rebuild center and are offered with a standard warranty.

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



BUILDING A BETTER FUTURE

Established in 1910, Hitachi, Ltd. was built upon a founding philosophy of making a positive contribution to society through technology. This is still the inspiration behind the Hitachi group's reliable solutions that answer today's challenges and help to create a better world.

Hitachi, Ltd. is now one of the world's largest corporations, with a vast range of innovative products and services. These have been created to challenge convention, improve social infrastructure and contribute to a sustainable society.



Hitachi Construction Machinery Co., Ltd. (HCM) was founded in 1970 as a subsidiary of Hitachi, Ltd. and has become one of the world's largest construction equipment suppliers. A pioneer in producing hydraulic excavators, HCM also manufactures wheel loaders, rigid dump trucks, crawler cranes and special application machines at state-of-the-art facilities across the globe.

Incorporating advanced technology, Hitachi construction machinery has a reputation for the highest quality standards. Suitable for a wide range of industries, it is always hard at work around the world – helping to create infrastructure for a safe and comfortable way of living, developing natural resources and supporting disaster relief efforts.

Hitachi ZW wheel loaders are renowned for being reliable, durable and versatile – capable of delivering the highest levels of productivity under the most challenging of conditions. They are designed to provide owners with a reduced total cost of ownership, and operators with the ultimate level of comfort and safety.

Model Name: ZW100-6, EPA Tier 4 Final/EU Stage IV Certified

ENGINE	
Gross power (ISO 14396)	101 HP/2,000 RPM (74 kW/2,000 RPM)
Net power (ISO 9249)	96 HP/2,000 RPM (71 kW/2,000 RPM)
Make/Model	Deutz TCD3.6L4F diesel engine
Туре	4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler
Fuel type	#2 Diesel (Requires ultra-low sulfur fuel.)
Fuel injection pump	Electronically controlled, common rail type
Governor	All speed electrical type
Cooling module type	Forced circulation type
Number of cylinders	4
Bore and stroke	3.9" x 4.7" (98mm x 120mm)
Total displacement	221 in ³ (3.621 liters)
Alternator	AC 24V-2.4 kW (100A)
Air cleaner	Dry type (double element) with restriction indicator
Starter motor	DC 24V-4.0 kW (5.4 HP)
Battery	12V-58 Ah (450 CCA), 2 units

TORQUE CONVERTER AND TRANSMISSION				
Transmission v		Electrical-controlled 1 motor hydrostatic transmission with gear box, Gear box: Fixed gear ratio, powershift countershaft type		
		Normal Mode	Power Mode	
Speeds: Forward	1st: 2nd:	7.1 MPH (11.5 km/hr) 21.4 MPH (34.5 km/hr)	7.1 MPH (11.5 km/hr) 21.4 MPH (34.5 km/hr)	
Speeds: Reverse	1st: 2nd:	7.1 MPH (11.5 km/hr) 21.4 MPH (34.5 km/hr)	7.1 MPH (11.5 km/hr) 21.4 MPH (34.5 km/hr)	

SYSTEMS REFILL CAPAC	ITY	
LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	37	140
Engine lubricant (including oil pan)	2.8	10.5
Engine coolant	4.2	16
T/M	2.1	8
Axle (front/rear)	3.7/3.7	14/14
Hydraulic oil tank	19.8	75
Hydraulic system (including hydraulic tank)	19.8	75
DEF/AdBlue® tank	4.5	17

HYDRAULIC AND STEERING SYSTEM		
Steering type	Articulated frame steering	
Steering mechanism	Double-acting piston type	
Lift (boom) cylinder	Two (2) double-acting piston type: 4.1" x 28" (105mm x 710mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 4.9" x 17.5" (125mm x 445mm)	
Steering cylinder	Two (2) double-acting piston type: 2.4" x 15.6" (60mm x 395mm)	
Main oil pump	32 GPM/2,988 PSI @ 2,000 RPM (121 LPM/20.6 MPa @ 2,000 RPM)	
HST charging pump	10.4 GPM/363 PSI @ 2,000 RPM (39.2 LPM/2.5 MPa @ 2,000 RPM)	
HYDRAULIC CYCLE TIME* front end loading. Z bar linkage system		

	Normal Mode	
Lifting time (at full load)	6.6 sec.	
Lowering time (empty)	2.7 sec.	
Bucket dumping time	1.6 sec.	
TOTAL	10.9 sec.	

^{*} Measured in accordance with SAE J732C

AXLE SYSTEM	
Drive system	4-wheel drive
Front and rear axle	Semi-floating type
Tires	16.9-24-10PR
Reduction and differential gear	Two-stage reduction with torque proportional differential
Final reduction gear	Inboard mounted, heavy duty planetary gear
Oscillation angle	Total 20 (+10, -10)°

BRAKE SYSTEM	
Service brakes	Inboard mounted fully hydraulic 4-wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity
Parking/Emergency brake	Spring-applied, hydraulically-released. Dry disc type with external output shaft.

Remarks

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

Please contact your local HCMA dealer for additional information.

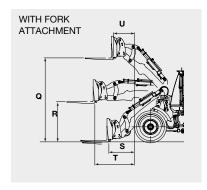
BUCKET DA	TA			
			Stand	dard Arm
			General Purpose	Material Handling
			Straight Edge w/ Quick Coupler	Straight Edge w/ Quick Coupler
	Heaped	yd ³	1.7	1.7
Capacity	Поароа	(m³)	(1.3)	(1.3)
. ,	Struck	yd ³	1.4	-
		(m³)	(1.1) 8'10"	— 8'2"
A Maximum	dumping clearance	ft-in (mm)	(2,710)	(2,480)
B Dumping re	each (to front of	ft-in	3'3"	4'2"
	ge or tooth)	(mm)	(1,000)	(1,260)
C May bings	, nin haiabt	ft-in	11'6"	11'6"
C Max. hinge	e piri neigni	(mm)	(3,515)	(3,515)
D Digging de		in	3.1"	2"
(with bucke	et level)	(mm)	(80)	(55)
Breakout force		lb (kN)	13,730	9,000
D 1 1177	at avaluad laval	. ,	(61) 55°	(40) 55°
Bucket tilt- back angle	at ground level E at carry position	degree degree	50°	50°
baok anglo		ft-in	21'10"	22'
	F Length	(mm)	(6,370)	(6,695)
	G Height (up to	ft-in	10'4"	10'4"
	cab top)	(mm)	(3,140)	(3,140)
Overall	H Height (bucket	ft-in	14'10"	15'6"
Ovoran	fully raised)	(mm)	(4,530)	(4,725)
	I Width	ft-in	7'2"	7'2"
	(outside tire)	(mm)	(2,180)	(2,180)
	J Width (outside bucket)	ft-in (mm)	7'8" (2,340)	7'9" (2,350)
	(outoido buortot)	ft-in	5'8"	5'8"
K Tread		(mm)	(1,725)	(1,725)
L Wheel base	2	ft-in	8'6"	8'6"
L Wrieer base	3	(mm)	(2,600)	(2,600)
Clearance	M at outside	ft-in	14'5"	14'5"
Circle (bucket	of bucket	(mm)	(4,440)	(4,440)
carry position)	at outside	ft-in	17'1"	17'5"
,	of tire	(mm)	(5,220)	(5,310)
N Minimum ground clearance in (mm)		ın (mm)	1'3" (365)	1'3" (365)
- (ППП)		degree	40°	40°
	<u> </u>	lb	16,140	17,240
Operating weig	ght (with ROPS cab)*	(kg)	(7,320)	(7,820)
Statio tipping	Straight	lb	12,740	10,670
Static tipping load (with	Gragn	(kg)	(5,780)	(4,840)
ROPS cab)*	Full turn	lb (L)	11,020	9,083
,		(kg)	(5,000)	(4,120)

DIMENSIONS Н C G †D М Equipped with 16.9-24-10PR tire and ROPS cab.

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983
: Static tipping load and operating weight marked with include 16.9-24-10PR 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 CHART yd³(m³) 115% 100% 95% Material handling 1.7 (1.3) %=Bucket Fill Factor General purpose 1.4 (1.1) **

ZW100-6 FORK SPECIFICATIONS



	ZW100-	6		416 (48)
Q	Max. stacking height		ft	11'4"
R	Height of fork at maximum	reach	ft	5'10"
s	Reach at ground level		ft	3'6"
Т	Max. reach		ft	5'8"
U	U Reach at max. stacking height		ft	3'6"
Timeline In and		Straight	lbf	6,829
Tipping load	Full turn	lbf	5,907	
Max. payload per EN 474-3, 80%		lb	4,726	
Max. payload per EN 474-3, 60%		lb	3,544	
SAE allowable load		ft	2,954	
Operating weight *		lb	18,274	

EQUIPMENT DATA

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element

Cold start (glow plug)

Deutz TCD36 diesel engine

EGR system

Fuel filter (main), w/water separator

Fuel pre-filter, w/water separator

Rain cap

SCR catalyst and DOC

Work mode selector

POWERTRAIN

Brakes, service

Enclosed wet disc

Dual system

Inboard mounted

Brake, parking

Spring applied

Oil pressure released

Wet disc type

Cooler, wide fin

Differential, torque proportioning (F/R)

Drive shafts, low maintenance

Hydrostatic transmission

Inching pedal

Maximum speed adjuster for 1st speed

Traction control

HYDRAULIC SYSTEM

Boom kick-out, mechanically adjusted

Bucket positioner

Control lever, single, pilot-assisted

Control lever lock (electric)

Control valve, 3-spool ready, parallel control

Ride control w/load sensing valve and automatic shut-off

Quick coupler control, lines and controls

Pump, gear, fixed displacement

Steering, orbitrol

ELECTRICAL

24-volt electrical system

Back-up alarm

Battery disconnect switch

Converter, 12V/15 Amp

Horn, dual electric

Instrument panel, LCD, color

Liahts:

2 Headlights (halogen)

2 Forward working lights (halogen)

4 Rear working lights (halogen)

2 Stop/tail/backup (LED)

Turn signal w/4-way flashers/marker

CAB

ROPS cab: Enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.

Accessory outlet, 12V,

Adjustable armrest/console, (fore/aft sliding)

Air conditioner/heater/pressurizer

AM/FM/WB radio with AUX input

Ashtray

Cab dome lamps (2)

Cigarette lighter (24v)

Coat hook

Cooler box storage area

Cup holder (2)

Floormat

Retractable seat belt (3 inch)

ROPS/FOPS certified, ISO 3449 Level II compliance

Seat, premium, heated w/TLV suspension

Steering column, telescoping and tilting

w/quick-release pedal

Storage box (heated/cooled)

Sun visor

OTHERS

Articulation locking bar

Counterweight

Drawbar

Global e-Service, telematic monitoring system

Ladders, inclined

Lifting eyes

Linkage pins, HN bushing

Neutral safety start

Steps, rear

Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual &

Brake oil low pressure

audible)

Engine oil low pressure

Gauges DEF/AdBlue® Level

Engine coolant temperature

Fuel gauge

Overheat (engine coolant)

Indicators Aftertreatment Device

A: 1 1

Air cleaner element

Air conditioner display

Battery discharge warning

Cold start

Control lever lock

Eco-operating status

Emergency steering

Engine warning

Fuel filter (water in fuel)

High beam

HST oil temperature

HST warning

Maintenance

Operating mode (Normal, Power)

Parking brake

Ride control

Service

Speedometer

Time/operating hour/ODO

Traction control switch

Turn signal w/4-way flashers/marker

Work light

OPTIONAL EQUIPMENT

Belly guard, front chassis, transmission (rear)

Bolt-on cutting edge & segments

Camera, rear view

Engine pre-cleaner

Fenders, rear, full, w/mudflap

High lift boom arm Lights, LED

Quick coupler & attachments

Model Name: ZW120-6, EPA Tier 4 Final/EU Stage IV Certified

ENGINE	
Gross power (ISO 14396)	101 HP/2,000 RPM (74 kW/2,000 RPM)
Net power (ISO 9249)	96 HP/2,000 RPM (71 kW/2,000 RPM)
Make/Model	Deutz TCD3.6L4F diesel engine
Туре	4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler
Fuel type	#2 Diesel (Requires ultra-low sulfur fuel.)
Fuel injection pump	Electronically controlled, common rail type
Governor	All speed electrical type
Cooling module type	Forced circulation type
Number of cylinders	4
Bore and stroke	3.9" x 4.7" (98mm x 120mm)
Total displacement	221 in ³ (3.621 liters)
Alternator	DC 24V-100A (2.4 kW)
Air cleaner	Dry type (double element) with restriction indicator
Starter motor	DC 24V-5.4 HP (4.0 kW)
Battery	12V-800 CCA (110 Ah), 2 units

Transmission	Electrical-controlled 1 motor hydrostatic transmission with gear box, Gear box: Fixed gear ratio, powershift countershaft type

TORQUE CONVERTER AND TRANSMISSION

		Normal Mode	Power Mode
Speeds:	1st:	7.1 MPH (11.5 km/hr)	7.1 MPH (11.5 km/hr)
Forward	2nd:	21.4 MPH (34.5 km/hr)	21.4 MPH (34.5 km/hr)
Speeds:	1st:	7.1 MPH (11.5 km/hr)	7.1 MPH (11.5 km/hr)
Reverse	2nd:	21.4 MPH (34.5 km/hr)	21.4 MPH (34.5 km/hr)

SYSTEMS REFILL CAPAC	ITY	
LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	37	140
Engine lubricant (including oil pan)	2.8	10.5
Engine coolant	4.2	16
T/M	2.1	8
Axle (front/rear)	3.7/3.7	14/14
Hydraulic oil tank	19.8	75
Hydraulic system (including hydraulic tank)	19.8	75
DEF/AdBlue® tank	4.5	17

HYDRAULIC A	ND STEEF	RING SYSTEM			
Steering type		Articulated frame steering			
Steering mechanism		Double-acting piston type			
Lift (boom) cylinder		Two (2) double-acting piston type: 4.1" x 28" (105mm x 710mm)			
Tilt (bucket) cylinder		Two (2) double-acting piston type: 4.9" x 17.5" (125mm x 445mm)			
Steering cylinder		Two (2) double-acting piston type: 2.4" x 15.6" (60mm x 395mm)			
Main oil pump		32 GPM/2,988 PSI @ 2,000 RPM (121 LPM/20.6 MPa @ 2,000 RPM)			
HST charging pump		10 GPM/363 PSI @ 2,000 RPM (39 LPM/2.5 MPa @ 2,000 RPM)			
Relief valve set	Loading	2,988 PSI, 20.6 MPa (210 kgf/cm²)			
pressure	Steering	2,495 PSI, 17.2 MPa (175 kgf/cm²)			
HYDRAULIC CYC	CLE TIME* fro	ont end loading, Z bar linkage system			
Normal Mode					
Lifting time (at full load)		6.6 sec.			
Lowering time (empty)		2.7 sec.			
Bucket dumping time		1.6 sec.			
TOTAL		10.9 sec.			

^{*} Measured in accordance with SAE J732C

AXLE SYSTEM	
Drive system	4-wheel drive
Front and rear axle	Semi-floating type
Tires	17.5-25-12PR (L-2)
Reduction and differential gear	Two-stage reduction with torque proportional differential
Final reduction gear	Inboard mounted, heavy duty planetary gear
Oscillation angle	Total 20 (+10, -10)°

BRAKE SYSTEM						
Service brakes	Inboard mounted fully hydraulic 4-wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity					
Parking/Emergency brake	Spring-applied, hydraulically-released transmission output shaft mounted multi wet disc					

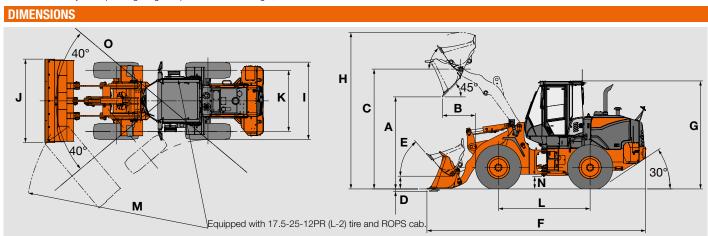
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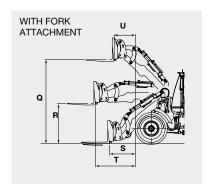
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BUCKET DA	TA					
			Standa	ard Arm	High Lift Arm	
			General Purpose	Material Handling	General Purpose	
			Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge	
	Heaped	yd³ (m³)	2.0 (1.5)	2.4 (1.8)	2.0 (1.5)	
Capacity		yd ³	1.6	1.5	1.6	
	Struck	(m³)	(1.2)	(1.4)	(1.2)	
Maximum o	dumping clearance	ft-in	8'10"	8'8"	10'	
	, •	(mm)	(2,705)	(2,630)	(3,040)	
	each (to front of	ft-in	3'4"	3'7"	3'11"	
bucket edg	ge or tooth)	(mm)	(1,010)	(1,080)	(1,190)	
Max. hinge	pin height	ft-in (mm)	11'8" (3,560)	11'8" (3,560)	12'10" (3,900)	
Digging de	nth	in	(3,300)	(3,300)	(3,900)	
(with bucke		(mm)	(70)	(70)	(210)	
,	•	lbf	16,840	15,062	16,636	
Breakout force		(kN)	(75)	(67)	(74)	
ucket tilt-	at ground level	degree	40°	40°	44°	
ack angle	E at carry position	degree	49°	49°	50°	
	F Length	ft-in	21'6"	21'10"	23'4"	
	· ·	(mm)	(6,545)	(6,650)	(7,105)	
	G Height (up to	ft-in	10'6"	10'6"	10'6"	
	cab top)	(mm)	(3,210) 15'3"	(3,210) 15'7"	(3,210) 16'4"	
Overall	H Height (bucket fully raised)	ft-in (mm)	(4,650)	(4,760)	(4,990)	
	I Width	ft-in	7'5"	7'5"	7'5"	
	(outside tire)	(mm)	(2,270)	(2,270)	(2,270)	
	J Width	ft-in	8'	8'	8'	
	(outside bucket)	(mm)	(2,450)	(2,450)	(2,450)	
Tread		ft-in	6'	6'	6'	
		(mm)	(1,820)	(1,820)	(1,820)	
. Wheel base	e	ft-in (mm)	8'11" (2,725)	8'11" (2,725)	8'11" (2,725)	
	M et outeide	` ,	(2,725)	(2,725) 17'11"	(2,725) 18'5"	
learance	M at outside of bucket	ft-in (mm)	(5,430)	(5,460)	(5,610)	
ircle (bucket	at outside	ft-in	16'2"	16'2"	16'2"	
arry position)	of tire	(mm)	(4,915)	(4,915)	(4,915)	
		in	15"	15"	15"	
Minimum g	round clearance	(mm)	(370)	(370)	(370)	
Full articula	ation angle	degree	40°	40°	40°	
)nerating weig	ht (with ROPS cab)*	lb	18,590	18,761	19,842	
Polating Well	in (with the o cab)	(kg)	(8,430)	(8,510)	(9,000)	
Static tipping	Straight	lb (1)	14,330	14,198	12,941	
ad (with	J	(kg)	(6,500)	(6,440)	(5,870)	
ROPS cab)*	Full turn	lb (kg)	12,390	12,236 (5,550)	11,133	
		(kg)	(5,620)	(5,550)	(5,050)	

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983
: Static tipping load and operating weight marked with include 17.5-25-12PR (L-2) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.



ZW120-6 FORK SPECIFICATIONS



	ZW120-	3		ISO (48")	416 (48")	ISO (60")	416 (60")
Q	Max. stacking height ft		11'4"	11'5"	11'4"	11'5"	
R	R Height of fork at maximum reach ft		ft	5'8"	5'11"	5'8"	5'11"
S	S Reach at ground level ft		ft	3'5"	3'4"	3'5"	3'4"
Т	T Max. reach		ft	5'5"	5'6"	5'5"	5'6"
U	U Reach at max. stacking height		ft	3'4"	3'5"	3'4"	3'5"
Tipping load		Straight	lb	7,996	7,681	7,498	7,211
		Full turn	lb	6,913	6,641	6,483	6,235
Max. payload per EN 474-3, 80%		lb	5,531	5,313	5,187	4,988	
Max. payload per EN 474-3, 60% lb		lb	4,148	3,985	3,890	3,741	
SAE allowable load lb		lb	3,457	3,321	3,242	3,118	
Operating weight * lb			lb	19,134	19,136	19,236	19239

BUCKET SELECTION CHART yd³(m³) High lift arm with general purpose 2.0 (1.5) Material handling 2.4 (1.8) General purpose 2.0 (1.5)

EOUIPMENT DATA

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element

Cold start (glow plug)

Deutz TCD36 diesel engine

EGR system

Fuel filter (main), w/water separator

Fuel pre-filter, w/water separator

Pre-cleaner (turbine type)

SCR catalyst and DOC

Work mode selector

POWERTRAIN

Brakes, service

Enclosed wet disc

Dual system

Inboard mounted

Brake, parking

Spring applied

Oil pressure released

Wet disc type

Cooler, wide fin

Differential, torque proportioning (F/R)

Drive shafts, low maintenance

Hydrostatic transmission

Inching pedal

Maximum speed adjuster for 1st speed (creeper function)

Traction control

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)

Bucket positioner

Control lever, single, pilot-assisted w/ F-N-R switch, w/3rd aux function lever

Control lever lock (electric)

Control valve, 3-function, parallel control

Ride control w/load sensing valve and automatic shut-off

Quick coupler control, lines and controls

Pump, gear, fixed displacement

Steering, orbitrol

ELECTRICAL

24-volt electrical system

Back-up alarm

Battery disconnect switch

Converter, 12V/15 Amp

Horn, dual electric

Instrument panel, LCD, color

Liahts:

2 Headlights (halogen)

4 Forward working lights (halogen)

4 Rear working lights (halogen)

2 Stop/tail/backup (LED)

Turn signal w/4-way flashers/marker

CAB

ROPS cab: Enclosed cab with sound suppression, front & rear wipers and washers, two rear view and side mirrors, tinted glass, full view latch-back doors, sliding side windows.

Accessory outlet, 12V,

Adjustable armrest/console, (fore/aft sliding)

Air conditioner/heater/pressurizer

AM/FM/WB radio with AUX input

Ashtray

Cab dome lamps (2)

Cigarette lighter (24v)

Coat hook

Cooler box storage area

Cup holder (2)

Floormat

Retractable seat belt (3 inch)

ROPS/FOPS certified, ISO 3449 Level II compliance

Seat, premium, heated w/TLV suspension

Steering column, telescoping and tilting

w/quick-release pedal

Storage box (heated/cooled)

Sun visor

OTHERS

Articulation locking bar

Counterweight

Drawbar

Global e-Service, telematic monitoring system

Ladders, inclined

Lifting eyes

Linkage pins, HN bushing

Neutral safety start

Steps, rear

Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual &

Brake oil low pressure

audible)

Engine oil low pressure

Gauges

DEF/AdBlue® Level

Engine coolant temperature

Fuel gauge Overheat (engine coolant)

Indicators Aftertreatment Device

Air cleaner element

Air conditioner display

Battery discharge warning

Cold start

Control lever lock

Eco-operating status

Emergency steering

Engine warning

Fan reverse rotation

Fuel filter (water in fuel)

High beam

HST oil temperature

HST warning

Maintenance

Operating mode (Normal, Power)

Parking brake

Ride control

Service Speedometer

Time/operating hour/ODO

Traction control switch

Turn signal w/4-way flashers/marker

Work light

OPTIONAL EQUIPMENT

Belly guard, front chassis, transmission (rear)

Bolt-on cutting edges

Camera, rear view

Fenders, rear, full, w/mudflap

High lift boom arm

Quick coupler & attachments

HITACHI



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

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

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