

ZW-5b series

HITACHI

Reliable solutions

# ZW50 / ZW80



## WHEEL LOADER

Model:

Gross engine rated power:

Operating weight:

Bucket ISO heaped:

**ZW50-5b (Tier 4 Final)**

44 hp/32.8 kW (ISO14396)

9,350 lb (4,240 kg)

0.8 yd<sup>3</sup> (0.6 m<sup>3</sup>)

**ZW80-5b (Tier 4 Final)**

66 hp/49 kW (ISO14396)

12,600 lb (5,715 kg)

1.2 yd<sup>3</sup> (0.9 m<sup>3</sup>)

# NO COMPROMISE

Offering exceptional levels of performance without compromising on efficiency, Hitachi ZW-5b 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 high-quality engineering for which Hitachi is renowned.



**6. FIRST FOR RELIABILITY**



**8. DEDICATED TO COMFORT AND SAFETY**



**10. INCREDIBLE VERSATILITY**



**12. INDUSTRY-LEADING QUALITY**



**14. UNIQUE TECHNOLOGY**

# DEMAND PERFECTION

Designed and built with an emphasis on the environment, operator comfort and safety, the ZW-5b 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.



## **Improved fuel efficiency**

Reliable Tier 4 Final compliant engines without DPF. Kubota (ZW50-5b), Deutz (ZW80-5b)





**Innovative technology**

HN Bushings impregnated with high viscosity oil extend lubrication period to 500 hours on linkage pins



**Low running costs**

Eco Mode provides a fuel efficient setting resulting in better fuel economy (ZW80-5b)



**Convenient access**

Easy access to cab on both sides of machine



**Enhanced design**

Wide-open engine hood and side-by-side aluminum radiator and aluminum oil cooler provide easy access for maintenance and cleaning



**High versatility**

Universal Coupler allows a wide range of attachments (ZW50-5b, standard) (ZW80-5b, optional)



**Smooth operation**

ZW50-5b Limited Slip Differentials and ZW80-5b Conventional with Front-Locking Differential provide additional traction for slippery surface conditions.



**Enhanced durability**

Wrap-around counterweight lowers center of gravity increasing stability

# FIRST FOR RELIABILITY

Renowned for reliability, Hitachi ZW-5b wheel loaders achieve exceptional levels of performance and efficiency with minimum downtime. The ZW50-5b/ZW80-5b 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

Daily maintenance is simplified with the wide-open engine cover and low-profile counterweight. The engine cover can be opened at a touch and held with a gas damper for quick inspection, replacement, and replenishment.

## Improved fuel efficiency

The ZW-5b 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. Battery electrolyte level can be checked at a glance through an opening in the counterweight (ZW80-5b).

## 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.





Easy to read monitor provides operating data at a glance (ZW50-5b)



The flat cab floor enables easy cleaning.

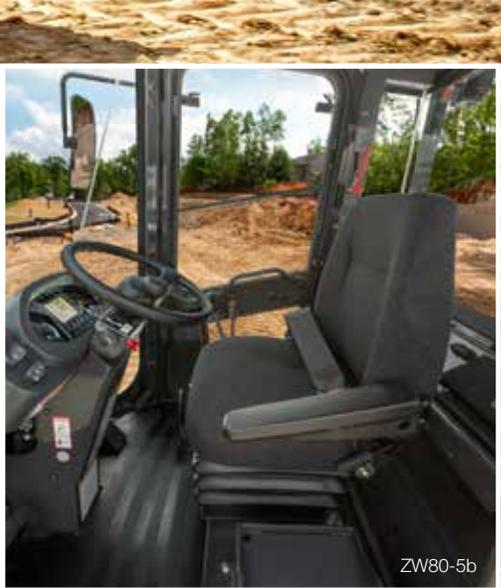


**i** The final pre-delivery inspection procedure for each Hitachi wheel loader is typical of Hitachi's dedication to manufacturing products of unflinching quality in response to customer needs.



# DEDICATED TO COMFORT AND SAFETY

Industry-leading cab visibility, low noise level, and easily access to the walk-through type cab ensure the ZW50-5b and ZW80-5b are class leaders in operator comfort.



A standard long-stroke suspension seat absorbs shock and vibration (ZW80-5b).

### Excellent Visibility

- Pillarless design offers unobstructed visibility.
- Front floor to ceiling windows.
- Cab enables panoramic views via addition of a lower window
- LED working lights (F/R) for better visibility.

### Low Noise Level in Cab

The cab is sound insulated with integrating a highly sealed design. New low-noise engine, and rubber-mounted operator frame and hydraulics, contribute to reduced decibel levels.

### Adjustable Suspension Seat

The suspension seat provided as standard equipment, absorbs shocks and vibration during operation, reducing operator fatigue and providing operator comfort.

ZW50-5b, short suspension seat, standard.

ZW80-5b, long suspension seat, standard.

### Walkthrough Type Cab

The walkthrough type cab allows for easy access from either side. The flat floor enables easy cleaning.

# INCREDIBLE VERSATILITY

ZW-5b 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**

Switch attachments from the comfort of your cab with the Universal Quick Coupler, which enables the rapid and seamless replacement of working tools.

## **High efficiency**

Manually locking front differentials are standard on the ZW80-5b. Limited Slip Differentials on the ZW50-5b provide added traction.

## **Superior performance**

Rear axle oscillation provides a stable, comfortable ride for the operator, easily conforming to various terrains.





Universal Quick Couple allows seamless transition (ZW80-5b).



Rear visibility has been enhanced by design modifications.



The cab provides a quiet and comfortable working environment.



ZW80-5b

Easy access for maintenance from ground level.



**i** 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 ZW50-5b / ZW80-5b 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.



ZW80-5b

The fuel cap and engine cover can be locked with the ignition key.

## Reduced emission

Cutting-edge technology not only helps the environment, but also complies with Tier 4 Final emission regulations.

## Easy access

Handrails and large steps mounted on both the left and right of the operator's station provide safety and easy access to the cab.

## Excellent security

The control lever and auxiliary function levers lock for safety, while the fuel cap and engine cover can be locked with the engine key.

## 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-5b 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**

Eco Mode helps to prevent fuel waste and exhaust emissions without affecting productivity (ZW80-5b).

## **Optimum performance**

The Throttle Limit Control reduces tire slippage, especially in wet and slippery conditions such as snow removal, dairy, and agriculture, saving on tire wear and tear (ZW80-5b).

## **Precise control**

The inching/ brake pedal provides smooth deceleration and natural braking for precise operations at low speeds. The HST brake provides smooth startup on slopes and excellent traction at all speed ranges.

## **Smooth operation**

The ZW50-5b, and ZW80-5b 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.



ZW80-5b

Easy-read monitor provides operating data at a glance



The HST control system enables a smooth performance.



The new engine has a smaller environmental impact.

# REDUCING THE TOTAL COST OF OWNERSHIP



Hitachi has created the Support Chain after-sales program to ensure optimum efficiency, as well as minimal downtime, reduced running costs and high resale values.

## **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-5b 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 a high availability of parts provided by HCMA's US parts warehouse.

- 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.

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



Technical support



Hitachi Parts



# 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.

### ENGINE

Model .....	Kubota D1803-CR-TIE4 diesel engine
Type .....	4-cycle water-cooled, direct injection
Aspiration .....	Turbocharged and intercooled
No. of cylinders .....	3
Engine power (net).....	42 hp (31.8 kW) at 2,400 min <sup>-1</sup> (rpm)
Bore and stroke .....	3.4 in x 4.0 in (87 mm X 102.4 mm)
Piston displacement .....	111 in <sup>3</sup> (1.826 L)
Batteries .....	DC 12V 70Ah (115D31L) 800CCA
Air cleaner .....	Two element dry type with restriction indicator

### POWERTRAIN

Transmission controls .....	Hydrostatic transmission (HST) automatically controls power and 2-speed
Travel speed*	Forward LOW..... 8.0/5.0 km/mph
Forward/Reverse	AUTO .....
Forward/Reverse	17.0/10.6 km/mph
Reverse LOW .....	8.0/5.0 km/mph
AUTO.....	17.0/10.6 km/mph

### AXLE AND FINAL DRIVE

Drive system .....	Four-wheel drive system
Front & rear axle .....	Semi-floating
Front .....	Fixed to the front frame
Rear .....	Trunnion support
Oscillation angle .....	Total 16° (±8°)
Final drives .....	Heavy-duty, planetary, mounted inboard
Differential gear .....	Limited slip differential (LSD)

### TIRES

Standard .....	15.5/60-18 8PR (L2)
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### BRAKES

Parking brake .....	Spring applied, hydraulically released wet disc
Service brakes .....	Wet discs in reduction gear box

### STEERING SYSTEM

Type .....	Articulated frame steering
Steering angle .....	Each direction 41°; total 82°
Cylinders .....	Double-acting piston type
No. x Bore x Stroke .....	1 x 2.36 in x 8.97 in (1 x 60 mm x 228 mm)
Steering mechanism.....	Full hydraulic power steering unit, pilot operation

### HYDRAULIC SYSTEM

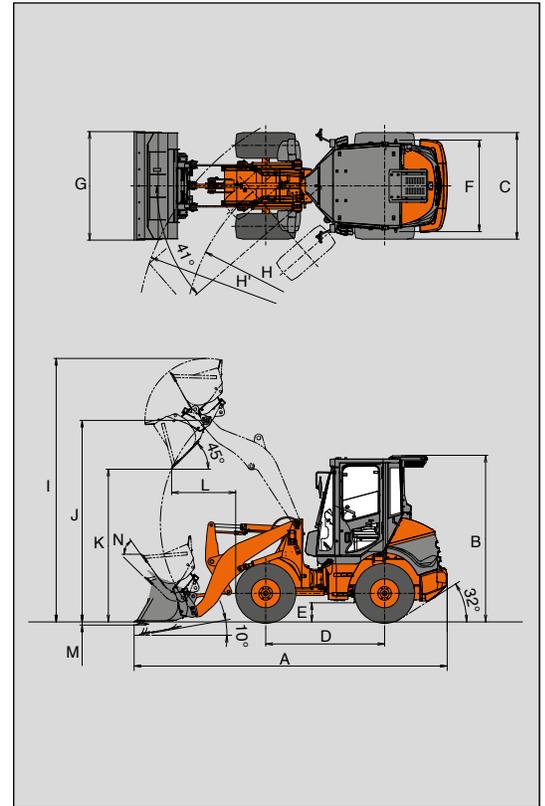
Arm and bucket are controlled by mechanical single control lever	
Relief pressure setting .....	20.6 MPa (210 kgf/cm <sup>2</sup> )/(2,987 psi)
Hydraulic cylinders	
Type .....	Double-acting piston type
No. x bore x stroke .....	Bucket: 1 x 2.8 in x 17.7 in (1 x 70 mm x 450 mm) Arm: 2 x 2.8 in x 20.9 in (2 x 70 mm x 531 mm)
Hydraulic cycle times .....	
Lift arm raise .....	5.0 s
Lift arm lower .....	3.0 s
Bucket dump .....	1.0 s
Total .....	9.0 s
Filters .....	Full-flow 10 micron return filter

### SERVICE REFILL CAPACITIES

Fuel tank .....	11.1 gal (42.0 L)
Engine coolant .....	1.7 gal (6.5 L)
Engine oil .....	1.5 gal (5.6 L)
Front axle differential & wheel hubs .....	1.2 gal (4.5 L)
Rear axle differential & wheel hubs .....	1.2 gal (4.5 L)
Hydraulic reservoir tank .....	10.0 gal (38.0 L)

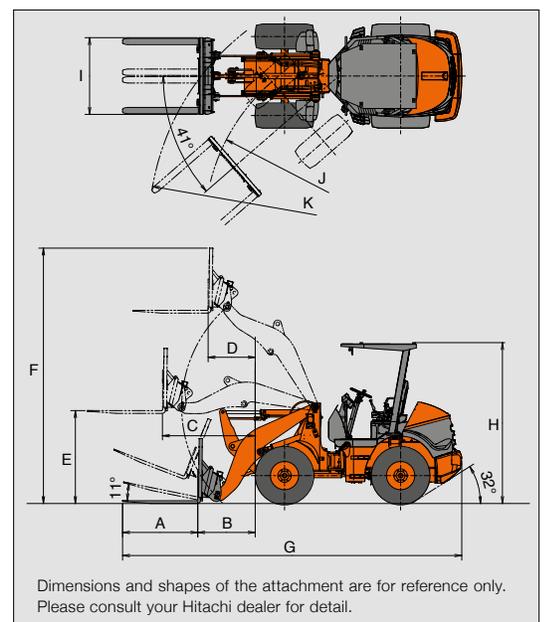
**DIMENSIONS & SPECIFICATIONS**

Bucket type			Standard arm with quick coupler	
			General purpose with bolt-on cutting edges	
			Canopy*	Cab
Bucket capacity	ISO heaped	yd <sup>3</sup> (m <sup>3</sup> )	0.8 (0.6)	
	ISO struck	yd <sup>3</sup> (m <sup>3</sup> )	0.7 (0.52)	
A Overall length		ft (mm)	16.0 (4,875)	
B Overall height, bucket on ground (with ROPS/FOPS)		ft (mm)	8.4 (2,565)	8.5 (2,595)
C Width over tires		ft (mm)	5.4 (1,660)	
D Wheel base		ft (mm)	6.1 (1,850)	
E Ground clearance		in (mm)	11.6 (295)	
F Tread		ft (mm)	4.1 (1,260)	
G Bucket width		ft (mm)	5.5 (1,690)	
H Turning radius (centerline of outside tire)		ft (mm)	10.3 (3,125)	
H' Loader clearance radius, bucket in carry position		ft (mm)	12.7 (3,870)	
I Overall operating height		ft (mm)	13.5 (4,105)	
J Height to bucket hinge pin, fully raised		ft (mm)	10.3 (3,140)	
K Dump clearance 45 degree, full height		ft (mm)	7.8 (2,380)	
L Reach, 45 degree dump, full height		ft (mm)	3.2 (995)	
M Digging depth (horizontal digging angle)		in (mm)	2.0 (50)	
N Max. roll back at carry position		deg	55	
Static tipping load**	Straight	lb (kg)	5,510 (2,500)	5,840 (2,650)
	Full turn	lb (kg)	4,480 (2,030)	4,760 (2,160)
Breakout force		lbf (kgf)	5,530 (24.6)	
Operating weight***		lb (kg)	8,810 (3,995)	9,350 (4,240)



Fork type		Canopy*	Cab
A Fork tine length	ft (mm)	3.9 (1,195)	
B Reach @ ground level	ft (mm)	3.0 (915)	
C Maximum reach	ft (mm)	4.8 (1,475)	
D Reach @ max hinge pin height	ft (mm)	2.5 (750)	
E Fork height @ max reach	in (mm)	4.6 (1,480)	
F Fork height @ max hinge pin height	ft (mm)	13.4 (4,075)	
Straight tip load with level arms and fork (load centered @ 24°)	lb (kg)	4,040 (1,830)	4,260 (1,930)
Full turn tip load with level arms and fork (load centered @ 24°)	lb (kg)	3,200 (1,450)	3,420 (1,550)
Max operating load	lb (kg)	1,600 (725)	
Fork attachment weight	lb (kg)	360 (165)	
Operating weight***	lb (kg)	8,860 (4,020)	9,370 (4,250)
G Overall length	ft (mm)	17.9 (5,470)	
H Overall height	ft (mm)	8.4 (2,565)	8.5 (2,595)
I Fork width	ft (mm)	4.0 (1,225)	
J Turning radius	ft (mm)	10.3 (3,125)	
K Loader clearing radius, Fork in carry position	ft (mm)	13.2 (4,015)	

Notes: \* Canopy option available in US market only  
 \*\* Static tipping load and operating weight marked with\*\* include 17.5/65-20 10PR tires (no ballast) with lubricants, coolant, full fuel tank and operator.  
 \*\*\* Includes ROPS/FOPS weight  
 All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:1997 and ISO 7546:1983



**BUCKET SELECTION GUIDE**

General purpose bucket with bolt-on cutting edges	Bucket capacity yd <sup>3</sup> (m <sup>3</sup> )	Material density lb/yd <sup>3</sup> (kg/m <sup>3</sup> )				% = Bucket Fill Factor		
		1,350 (800)	1,690 (1,000)	2,020 (1,200)	2,360 (1,400)	110%	100%	95%
Standard lift with quick-coupler	0.8 (0.6)							

### STANDARD EQUIPMENT

#### ENGINE

Air filter double elements  
 Air intake  
 Cold start aid, glow plugs  
 Engine oil filter, cartridge type  
 Engine coolant reservoir  
 Kubota D1803-CR-TIE4 diesel

#### POWERTRAIN

Brake, parking  
 Enclosed wet disc type  
 Spring applied  
 Oil pressure released  
 Brakes, service  
 Enclosed wet disc type  
 Full hydraulic system  
 Electrically controlled HST system  
 Forward/reverse lever  
 Limited slip differential (LSD) for both axles  
 Travel mode selector switch (L & Auto)

#### HYDRAULIC SYSTEM

Bucket auto leveler (automatic return to dig control)  
 Coupler, hydraulic, universal type  
 Hydraulic system, 3-function  
 Control valve, 3-spool, parallel and tandem control  
 Shift lever lock

#### ELECTRICAL

Alternator (12V 70A)  
 Battery (800CCA 70Ah)  
 Battery disconnect cable  
 Horn, electric  
 Lights (LED for Cab only):  
 2 Headlights  
 2 Stop/tail/turn lights  
 2 Turn signals (front)  
 1 Backup  
 Working lights (LED for Cab only) 2 front, 2 rear

#### CAB

AM/FM/WB Stereo Radio with AUX input  
 Easy clean floor  
 ROPS/FOPS Cab (Canada) \*  
 ROPS/FOPS Canopy (US)  
 Seat, adjustable suspension, fabric (cab only)  
 Seat, adjustable suspension, vinyl (canopy only)  
 Seat belt, adjustable (3 inch)

\* Canopy option available in US market only.

#### OTHERS

Articulation locking bar  
 Counterweight  
 Drawbar  
 Fenders  
 Linkage (Z-type, sealed w/HN bushings)  
 Neutral safety start  
 Rear grill, hinged  
 Radiator, dust screen  
 Radiator, side-by-side w/oil cooler

#### ALARMS, GAUGES, INDICATORS

Alarms (audible)	Brake oil level
	Engine coolant temp
	Engine oil pressure
Alarms (visual)	Air filter
	Battery discharge
	Brake oil level
	Engine oil pressure
	Machine service
Gauges	Overheat (engine coolant)
	Engine coolant temperature
	Engine tachometer
Indicators	Fuel gauge
	Clearance light
	Engine pre-heater
	Forward/reverse
	Hour meter
	High beam
	Parking brake
	Turn signals
	Travel mode (L)
	Working light, indicator (cab only)



### ENGINE

Model .....	DEUTZ TD2.9L4 diesel engine
Type .....	4-cycle water-cooled, direct injection
Aspiration .....	Turbocharged and intercooled
No. of cylinders .....	4
Engine power (net).....	63 hp (47 kW) at 2,200 min <sup>-1</sup> (rpm)
Bore and stroke .....	3.6 in x 4.3 in (92 mm X 110 mm)
Piston displacement .....	178 in <sup>3</sup> (2.925 L)
Batteries .....	DC 12V 92Ah (130E41R) 680CCA
Air cleaner .....	Two element dry type with restriction indicator

### POWERTRAIN

Transmission controls .....	Hydrostatic transmission (HST) automatically controls power and 2-speed	
Travel speed*	1st	12.0/7.5 km/mph
Forward/Reverse	2nd	34.0/21.1 km/mph

### AXLE AND FINAL DRIVE

Drive system .....	Four-wheel drive system
Front & rear axle .....	Semi-floating
Front .....	Fixed to the front frame
Rear .....	Center pivot
Oscillation angle .....	Total 22° (±11°)
Final drives .....	Heavy-duty, planetary final drive
Differential gear .....	Differential lock (front axle only)

### TIRES

Standard .....	17.5-65-20 10PR-L2
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### BRAKES

Service brakes .....	Inboard mounted fully hydraulic wet disc
Parking brake .....	Spring applied, hydraulically released wet disc

### STEERING SYSTEM

Type .....	Articulated frame steering
Steering angle .....	Each direction 40°; total 80°
Cylinders .....	Double-acting piston type
No. x Bore x Stroke .....	2 x 1.8 in x 13.4 in (2 x 45 mm x 340 mm)

### HYDRAULIC SYSTEM

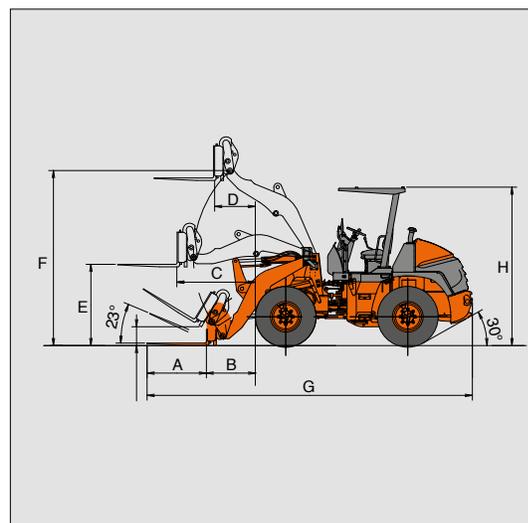
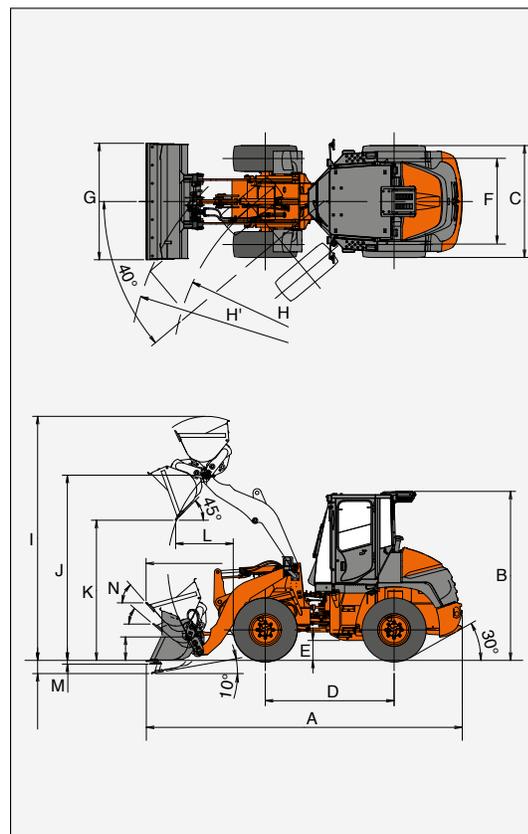
Arm and bucket are controlled by mechanical single control lever	
Relief pressure setting .....	20.6 MPa (210 kgf/cm <sup>2</sup> )/(2,987 psi)
Hydraulic cycle times .....	
Lift arm raise .....	5.0 s
Lift arm lower .....	3.5 s
Bucket dump .....	1.0 s
Total .....	9.5 s

### SERVICE REFILL CAPACITIES

Fuel tank .....	21.7 gal (82.0 L)
Engine coolant .....	4.0 gal (15.0 L)
Engine oil .....	2.4 gal (9.0 L)
Front axle differential & wheel hubs .....	1.6 gal (6.2 L)
Rear axle differential & wheel hubs .....	1.7 gal (6.4 L)
Hydraulic reservoir tank .....	19.0 gal (72.0 L)

**DIMENSIONS & SPECIFICATIONS**

Bucket type			Standard arm with quick coupler	
			General purpose with bolt-on cutting edges	
			Canopy*	Cab
Bucket capacity	ISO heaped	yd <sup>3</sup> (m <sup>3</sup> )	1.2 (0.9)	
	ISO struck	yd <sup>3</sup> (m <sup>3</sup> )	1.0 (0.73)	
A Overall length		ft (mm)	17.7 (5,395)	
B Overall height, bucket on ground (with ROPS/FOPS)		ft (mm)	9.4 (2,860)	9.5 (2,890)
C Width over tires		ft (mm)	6.3 (1,920)	
D Wheel base		ft (mm)	7.2 (2,200)	
E Ground clearance		in (mm)	13.4 (340)	
F Tread		ft (mm)	4.8 (1,470)	
G Bucket width		ft (mm)	6.5 (1,990)	
H Turning radius (centerline of outside tire)		ft (mm)	12.5 (3,795)	
H' Loader clearance radius, bucket in carry position		ft (mm)	14.9 (4,540)	
I Overall operating height		ft (mm)	13.7 (4,170)	
J Height to bucket hinge pin, fully raised		ft (mm)	10.4 (3,165)	
K Dump clearance 45 degree, full height		ft (mm)	7.8 (2,390)	
L Reach, 45 degree dump, full height		ft (mm)	3.2 (990)	
M Digging depth (horizontal digging angle)		in (mm)	2.6 (65)	
N Max. roll back at carry position		deg	49	
Static tipping load**	Straight	lb (kg)	8,030 (3,640)	8,470 (3,840)
	Full turn	lb (kg)	6,790 (3,080)	7,170 (3,250)
Breakout force		lbf (kgf)	8,270 (36.8)	
Operating weight***		lb (kg)	12,100 (5,500)	12,600 (5,715)



Fork type		Canopy*	Cab
A Fork tine length	ft (mm)	3.5 (1,070)	
B Reach @ ground level	ft (mm)	2.9 (880)	
C Maximum reach	ft (mm)	4.6 (1,410)	
D Reach @ max hinge pin height	ft (mm)	2.5 (755)	
E Fork height @ max reach	in (mm)	4.8 (1,465)	
F Fork height @ max hinge pin height	ft (mm)	10.4 (3,165)	
Straight tip load with level arms and fork (load centered @ 24°)	lb (kg)	5,950 (2,700)	6,310 (2,860)
Full turn tip load with level arms and fork (load centered @ 24°)	lb (kg)	5,000 (2,270)	5,340 (2,420)
Max operating load	lb (kg)	3,170 (1,440)	
Fork attachment weight	lb (kg)	720 (325)	
Operating weight***	lb (kg)	12,160 (5,515)	12,630 (5,730)
G Overall length	ft (mm)	19.2 (5,865)	
H Overall height	ft (mm)	9.4 (2,860)	9.5 (2,890)
I Fork width	ft (mm)	5.0 (1,520)	
J Turning radius	ft (mm)	12.5 (3,795)	
K Loader clearing radius, Fork in carry position	ft (mm)	16.3 (4,570)	

Notes: \* Canopy option available in US market only  
 \*\* Static tipping load and operating weight marked with\*\* include 17.5/65-20 10PR tires (no ballast) with lubricants, coolant, full fuel tank and operator.  
 \*\*\* Includes ROPS/FOPS weight  
 All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:1997 and ISO 7546:1983

**BUCKET SELECTION GUIDE**

General purpose bucket with bolt-on cutting edges	Bucket capacity yd <sup>3</sup> (m <sup>3</sup> )	Material density lb/yd <sup>3</sup> (kg/m <sup>3</sup> )				% = Bucket Fill Factor		
		1,350 (800)	1,690 (1,000)	2,020 (1,200)	2,360 (1,400)	110%	100%	95%
Standard lift with quick-coupler	1.2 (0.9)							

## STANDARD EQUIPMENT

### ENGINE

Cold start aid, glow plugs  
 DEUTZ TDZ2.9L4 diesel  
 Engine coolant reservoir  
 Fuel pre-filter w/water separator  
 Throttle limit switch

### POWERTRAIN

Brake, parking  
 Enclosed wet disc type  
 Spring applied  
 Oil pressure released  
 Brakes, service  
 Enclosed wet disc  
 Full hydraulic system  
 Differential lock (front axle only), grip-switch activated  
 Inching pedal function

### HYDRAULIC SYSTEM

Bucket positioner  
 Coupler, hydraulic hook type\*  
 Hydraulic system, 3-function  
 Control valve, 3-spool, parallel and tandem control  
 Shift lever lock  
 Travel mode switch

\* Available in US market only.

### ELECTRICAL

Alternator (12V 95A)  
 Battery (680CCA 92Ah)  
 Battery disconnect switch  
 Horn, electric  
 Lights:  
 2 Headlights  
 2 Stop/tail/turn lights  
 2 Turn signals (front)  
 1 Backup  
 Working lights (LED for Cab only) 2 front, 2 rear

### CAB

AM/FM/WB Stereo Radio with AUX input  
 Easy clean floor  
 ROPS/FOPS Cab (Canada)\*  
 ROPS/FOPS Canopy (US)  
 Seat, adjustable suspension, fabric (cab only)  
 Seat, adjustable suspension, vinyl (canopy only)  
 Seat belt, adjustable (3 inch)

\* Canopy option available in US market only.

### OTHERS

Articulation locking bar  
 Counterweight  
 Drawbar  
 Fenders  
 Linkage (Z-type, sealed w/HN bushings)  
 Neutral safety start  
 Rear grill, hinged  
 Radiator, dust screen  
 Radiator, side-by-side w/oil cooler

### ALARMS, GAUGES, INDICATORS

Alarms (audible)	Brake oil level
	Engine coolant temp
	Engine oil pressure
Alarms (visual)	Air filter
	Battery discharge
	Brake oil level
	Engine oil pressure
	HST warning
	Machine service
Gauges	Machine stop
	Overheat (engine coolant)
	Engine coolant temperature
Indicators	Fuel gauge
	Clearance light
	Engine pre-heater
	Forward/reverse
	Hour meter
	High beam
	Parking brake
	Speedometer
	Turn signals
	Working light, indicator (cab only)

### OPTIONAL EQUIPMENT

Coupler, hydraulic, universal  
 Ride control



Reliable solutions

Hitachi Construction Machinery Co., Ltd. (Hitachi Construction Machinery) was established in 1970, when Hitachi, Ltd. spun off its Construction Machinery Division. Currently, there are 84 companies that comprise the Hitachi Construction Machinery Group providing Reliable solutions for customers in the heavy construction equipment industry. Hitachi Construction Machinery continues to grow as a strong, global, competitive enterprise.



Fast forward to 2010. A joint venture with Hitachi Construction Machinery and Kawasaki Heavy Industries was entered into to further develop the global scope of the wheel loader product line. This relationship combined the huge technological and manufacturing resources of Kawasaki Heavy Industries and Hitachi Construction Machinery Group. This effort has resulted in a very productive, reliable, and cost-effective product.

In 2016 Hitachi Construction Machinery bought 100% of KCM Corporation's stock transitioning to KCMA Corporation. In 2018 Hitachi Construction Machinery took the reins transitioning KCMA Corporation to Hitachi Construction Machinery Loaders America Inc., furthering their commitment to the North American market by introducing the Hitachi brand wheel loader line, offering outstanding parts availability, an unmatched factory component exchange program, customer and dealer training programs, and a wide range of services and programs.



With manufacturing facilities in Banshu, Japan; Ryugasaki, Japan, and Newnan, Ga., Hitachi Construction Machinery Loaders America has the experience and technology to design, engineer, manufacture, and service your next wheel loader. The Hitachi Construction Machinery Loaders America Inc. team is focused on wheel loaders. As a subsidiary of one of the largest construction machinery companies in the world, Hitachi Construction Machinery Loaders America Inc. is securely poised as your go-to source in the North American wheel loader market.



## A FULL LINE OF WHEEL LOADERS

- 13 Models
- 30 HP – 531 HP

## REPUTATIONS ARE BUILT ON IT

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery Loaders America Inc.  
[www.hitachicm.us](http://www.hitachicm.us)

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