

Reliable solutions

**ZW140**

Tier 4 Final Certified

**145 hp** 108 kW  
Engine Output, Max, Gross  
(ISO 14396)

**142 hp** 106 kW  
Engine Output, Max, Net  
(ISO 9249)

**2.8 yd<sup>3</sup>** 2.1 m<sup>3</sup>  
Bucket capacity

**25,661 lbs** 11,640 kg  
Operating weight

**ZW150**

Tier 4 Final Certified

**145 hp** 108 kW  
Engine Output, Max, Gross  
(ISO 14396)

**142 hp** 106 kW  
Engine Output, Max, Net  
(ISO 9249)

**3.1 yd<sup>3</sup>** 2.4 m<sup>3</sup>  
Bucket capacity

**27,029 lbs** 12,260 kg  
Operating weight

**ZW150PL**

Tier 4 Final Certified

**145 hp** 108 kW  
Engine Output, Max, Gross  
(ISO 14396)

**142 hp** 106 kW  
Engine Output, Max, Net  
(ISO 9249)

**2.8 yd<sup>3</sup>** 2.1 m<sup>3</sup>  
Bucket capacity

**27,010 lbs** 12,830 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 high-quality engineering for which Hitachi is renowned.



**6. FIRST FOR RELIABILITY**



**8. DEDICATED TO DURABILITY**



**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-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.



## **Easy to operate**

The hydrostatic transmission enhances versatility and increases productivity.



## **Smooth operation**

Ride control minimizes machine pitching.



## **Superior comfort**

Spacious cab with several storage compartments.





**Enhanced design**

Excellent rear view thanks to the curved engine hood.



**Quieter performance**

New materials in the cab absorb sound to reduce noise levels.



**Enhanced fuel efficiency**

New Tier 4 Final engine without DPF.



**Low running costs**

6% fuel saving in V-shaped loading (19% in travelling operations).



**Exceptional durability**

Developed in-house, the front frame has been reinforced (ZW140-6 and ZW150-6).



**Convenient access**

Easy-to-open wide engine covers.

# FIRST FOR RELIABILITY

Renowned for reliability, Hitachi ZW-6 wheel loaders achieve exceptional levels of performance and efficiency with minimum downtime. The ZW140-6/ZW150-6/ZW150PL-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 battery is easy to maintain.



New engine reduces fuel consumption.



Reinforced front frame in the ZW140-6, 150-6 and 150PL-6.



Wide fin coolers reduce heat and increase radiator durability





**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 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 anti-clogging radiators (WPFR) are designed with square-shaped instead of triangular-shaped fins to prevent clogging. This reduces radiators maintenance frequency.

# 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.

## **Parallel lift arm**

The ZW150PL-6 provides parallel movement from ground level. Perfect for loading and unloading items with increased load control.

## **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.



Rear visibility has been enhanced by design modifications.



The ride control feature ensures smooth performance.



The traction control system reduces tire slippage in wet or wintry conditions.



The cab provides a quiet and comfortable working environment.



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 ZW140-6/ZW150-6/ZW150PL-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.



## 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.

## 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.



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

## 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.

## 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 CO<sub>2</sub> 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 ZW140-6 and ZW150-6 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.



1st speed select switch optimize performance on different job sites.



The HST control system enables a smooth performance.



The new engine and SCR system have a smaller environmental impact.

# 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](http://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.





Global e-Service



Technical support



Hitachi Parts

## 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.

# SPECIFICATIONS

## ZW140-6/ZW150-6/ZW150PL-6

EPA Tier 4 Final/EU Stage IV Certified

### ENGINE

Gross power (ISO 14396)	145 HP/2,000 RPM (108 kW/2,000 RPM)
Net power (ISO 9249)	142 HP/2,000 RPM (106 kW/2,000 RPM)
Make/Model	Cummins QSB4.5 diesel engine
Type	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	4.2" x 4.9" (107mm x 124mm)
Total displacement	272 in <sup>3</sup> (4.5 liters)
Alternator	DC 24V-65A (2.64 kW)
Air cleaner	Dry type (double element) with restriction indicator
Starter motor	DC 24V-6.1 HP (4.5 kW)
Battery	(2) 12V-930 CCA (140 Ah)

### TORQUE CONVERTER AND TRANSMISSION

Transmission	Electrical-controlled 2 motor hydrostatic transmission with summation gear box, Gear box: Fixed gear ratio, powershift countershaft type
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		Normal Mode	Power Mode
Speeds: Forward	1st:	4.3 MPH (7.0 km/hr)	4.3 MPH (7.0 km/hr)
	2nd:	7.2 MPH (11.5 km/hr)	7.8 MPH (12.5 km/hr)
	3rd:	12.4 MPH (20.0 km/hr)	12.4 MPH (20.0 km/hr)
	4th:	24.2 MPH (39.0 km/hr)	24.2 MPH (39.0 km/hr)
Speeds: Reverse	1st:	4.3 MPH (7.0 km/hr)	4.3 MPH (7.0 km/hr)
	2nd:	7.2 MPH (11.5 km/hr)	7.8 MPH (12.5 km/hr)
	3rd:	12.4 MPH (20.0 km/hr)	12.4 MPH (20.0 km/hr)
	4th:	24.2 MPH (39.0 km/hr)	24.2 MPH (39.0 km/hr)

### SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	53	200
Engine lubricant (including oil pan)	4.2	16
Engine coolant	5.3	20
T/M	2.6	10
Axle (front/rear)	6.6/6.6	25/25
Hydraulic oil tank	25.4	96
Hydraulic system (including hydraulic tank)	39.6	150
DEF/AdBlue® tank	3.2	12

### HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering	
Steering mechanism	Hydraulic power steering unit, double-acting piston type	
ZW140-6 and ZW150-6	Lift (boom) cylinder	Two (2) double-acting piston type: 4.9" x 29.9" (125mm x 760mm)
	Tilt (bucket) cylinder	One (1) double-acting piston type: 5.9" x 19.3" (150mm x 490mm)
ZW150PL-6	Lift (boom) cylinder	Two (2) double-acting piston type: 4.9" x 29.9" (125mm x 760mm)
	Tilt (bucket) cylinder	Two (2) double-acting piston type: 4.3" x 39.6" (110mm x 1005mm)
Steering cylinder	Two (2) double-acting piston type: 2.6" x 16.5" (65mm x 419mm)	
Main oil pump	51.2 GPM/2,988 PSI @ 2,200 RPM (194 LPM/20.6 MPa @ 2,200 RPM)	
HST charging pump	14.2 GPM/355 PSI @ 2,200 RPM (53.9 LPM/2.45 MPa @ 2,200 RPM)	
Relief valve set pressure	Control	2,988 PSI, 20.6 MPa (210 kgf/cm <sup>2</sup> )
	Priority	2,843 PSI, 19.6 MPa (200 kgf/cm <sup>2</sup> )
HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system		

	ZW140-6, ZW150-6	ZW150P-6L
Lifting time (at full load)	6.0 sec.	6.0 sec.
Lowering time (empty)	4.5 sec.	3.4 sec.
Bucket dumping time	1.4 sec.	3.4 sec.
TOTAL	11.9 sec.	12.8 sec.

\* Measured in accordance with SAE J732C

### AXLE SYSTEM

Drive system	4-wheel drive
Front and rear axle	Semi-floating type
Tires	20.5 R25 (L-3)
Reduction and differential gear	Two-stage reduction with limited slip 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 disc brake. Front and rear independent brake circuit.
Parking/Emergency brake	Transmission mounted, spring-applied, hydraulically-released multi wet disc

### 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.
- 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.

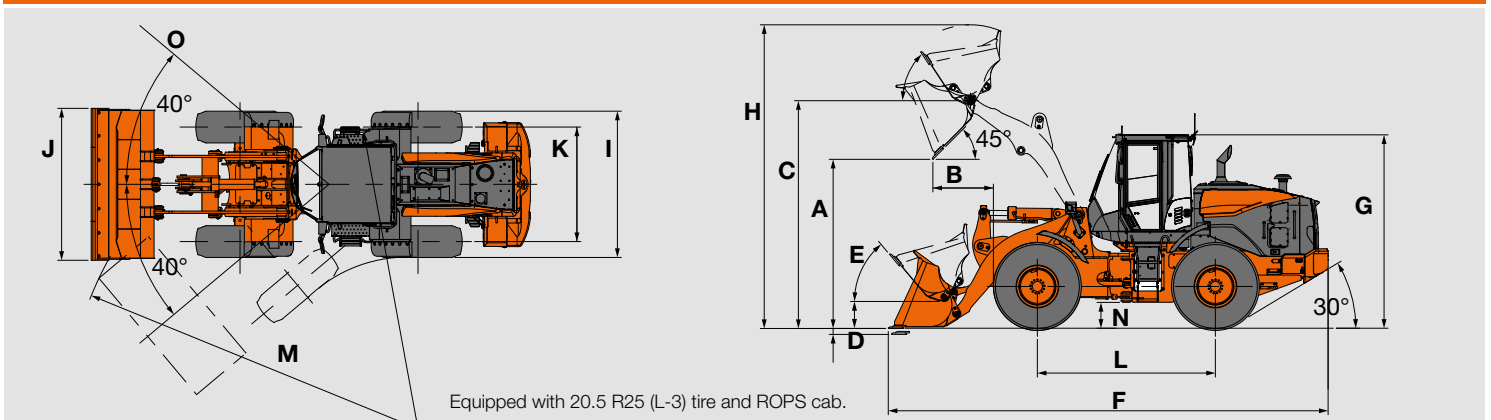
**BUCKET DATA**

			Standard Arm		High Lift Arm
			General Purpose	Material Handling	Material Handling
			Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge
					
Capacity	Heaped	yd <sup>3</sup> (m <sup>3</sup> )	2.8 (2.1)	3.1 (2.4)	2.8 (2.1)
	Struck	yd <sup>3</sup> (m <sup>3</sup> )	2.4 (1.8)	2.6 (2.0)	2.4 (1.8)
<b>A</b>	Maximum dumping clearance	ft-in (mm)	9'6" (2,885)	9'4" (2,845)	10'8" (3,245)
<b>B</b>	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	3'3" (990)	3'5" (1,030)	3'11" (1,185)
<b>C</b>	Max. hinge pin height	ft-in (mm)	12'7" (3,840)	12'7" (3,840)	13'9" (4,200)
<b>D</b>	Digging depth (with bucket level)	in (mm)	4" (95)	4" (95)	11" (280)
Breakout force		lbf (kN)	23,850 (106)	22,481 (100)	23,155 (103)
Bucket tilt-back angle	at ground level	degree	43°	43°	44°
	<b>E</b> at carry position	degree	50°	50°	50°
Overall	<b>F</b> Length	ft-in (mm)	23'11" (7,290)	24'1" (7,345)	25'6" (7,780)
	<b>G</b> Height (up to cab top)	ft-in (mm)	10'9" (3,265)	10'9" (3,265)	10'9" (3,265)
	<b>H</b> Height (bucket fully raised)	ft-in (mm)	16'6" (5,040)	17' (5,190)	17'9" (5,400)
	<b>I</b> Width (outside tire)	ft-in (mm)	8'2" (2,490)	8'2" (2,490)	8'2" (2,490)
	<b>J</b> Width (outside bucket)	ft-in (mm)	8'5" (2,560)	8'5" (2,560)	8'5" (2,560)
	<b>K</b> Tread	ft-in (mm)	6'4" (1,930)	6'4" (1,930)	6'4" (1,930)
<b>L</b> Wheel base	ft-in (mm)	9'11" (3,000)	9'11" (3,000)	9'11" (3,000)	
Clearance Circle (bucket carry position)	<b>M</b> at outside of bucket	ft-in (mm)	19'6" (5,935)	19'6" (5,950)	20'2" (6,140)
	at outside of tire	ft-in (mm)	17'7" (5,355)	17'7" (5,355)	17'7" (5,355)
<b>N</b>	Minimum ground clearance	in (mm)	17" (435)	17" (435)	17" (435)
<b>O</b>	Full articulation angle	degree	40°	40°	40°
Operating weight (with ROPS cab)*		lb (kg)	25,661 (11,640)	25,816 (11,710)	26,169 (11,870)
Static tipping load (with ROPS cab)*	Straight	lb (kg)	20,261 (9,190)	20,150 (9,140)	16,028 (7,270)
	Full turn	lb (kg)	17,570 (7,970)	17,461 (7,920)	13,823 (6,270)

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 20.5R25 (L-3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

**DIMENSIONS**



ZW150-6 BUCKET DATA

ZW150PL-6 BUCKET DATA

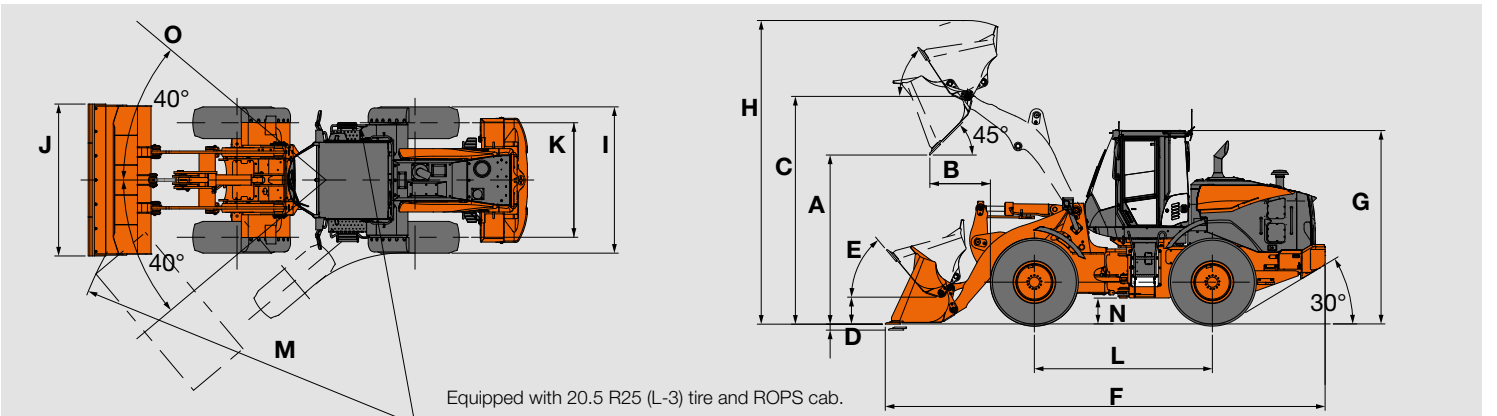
			Standard Arm		High Lift Arm	Standard Arm
			General Purpose	Material Handling	Material Handling	General Purpose
			Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge	Straight Edge w/ Bolt-on Cutting Edge
						
Capacity	Heaped	yd <sup>3</sup> (m <sup>3</sup> )	3.1 (2.4)	3.5 (2.7)	3.1 (2.4)	2.8 (2.1)
	Struck	yd <sup>3</sup> (m <sup>3</sup> )	2.6 (2.0)	2.9 (2.2)	2.6 (2.0)	2.4 (1.8)
<b>A</b>	Maximum dumping clearance	ft-in (mm)	9'4" (2,845)	9'1" (2,765)	10'6" (3,205)	9'2" (2,805)
<b>B</b>	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	3'5" (1,030)	3'8" (1,105)	4' (1,220)	4'2" (1,280)
<b>C</b>	Max. hinge pin height	ft-in (mm)	12'7" (3,840)	12'7" (3,840)	13'9" (4,200)	13' (3,975)
<b>D</b>	Digging depth (with bucket level)	in (mm)	4" (95)	4" (95)	11" (280)	4" (90)
Breakout force		lbf (kN)	22,481 (100)	20,233 (90)	21,807 (97)	23,155 (103)
Bucket tilt-back angle	at ground level	degree	43°	43°	44°	43°
	<b>E</b> at carry position	degree	50°	50°	50°	50°
	<b>F</b> Length	ft-in (mm)	24'4" (7,420)	24'8" (7,530)	25'9" (7,855)	25'5" (7,735)
	<b>G</b> Height (up to cab top)	ft-in (mm)	10'9" (3,265)	10'9" (3,265)	10'9" (3,265)	10'9" (3,265)
Overall	<b>H</b> Height (bucket fully raised)	ft-in (mm)	17' (5,190)	17'2" (5,230)	18'3" (5,555)	17'7" (5,360)
	<b>I</b> Width (outside tire)	ft-in (mm)	8'2" (2,490)	8'2" (2,490)	8'2" (2,490)	8'2" (2,490)
	<b>J</b> Width (outside bucket)	ft-in (mm)	8'5" (2,560)	8'5" (2,560)	8'5" (2,560)	8'5" (2,560)
	<b>K</b> Tread	ft-in (mm)	6'4" (1,930)	6'4" (1,930)	6'4" (1,930)	6'4" (1,930)
<b>L</b> Wheel base		ft-in (mm)	9'11" (3,000)	9'11" (3,000)	9'11" (3,000)	9'11" (3,000)
	<b>M</b> at outside of bucket	ft-in (mm)	19'6" (5,950)	19'7" (5,980)	20'2" (6,155)	19'9" (6,030)
Clearance Circle (bucket carry position)	at outside of tire	ft-in (mm)	17'7" (5,355)	17'7" (5,355)	17'7" (5,355)	16'8" (5,090)
	<b>N</b> Minimum ground clearance	in (mm)	17" (435)	17" (435)	17" (435)	17" (435)
<b>O</b>	Full articulation angle	degree	40°	40°	40°	40°
Operating weight (with ROPS cab)*		lb (kg)	27,029 (12,260)	27,117 (12,300)	27,540 (12,490)	27,010 (12,830)
Static tipping load (with ROPS cab)*	Straight	lb (kg)	22,950 (10,410)	22,619 (10,260)	18,188 (8,250)	20,128 (9,130)
	Full turn	lb (kg)	19,930 (9,040)	19,643 (8,910)	15,719 (7,130)	17,394 (7,890)

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 20.5R25 (L-3) tires (No ballast) with lubricants, full fuel tank and operator.

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

DIMENSIONS

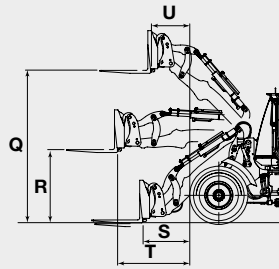


# SPECIFICATIONS

ZW140-6

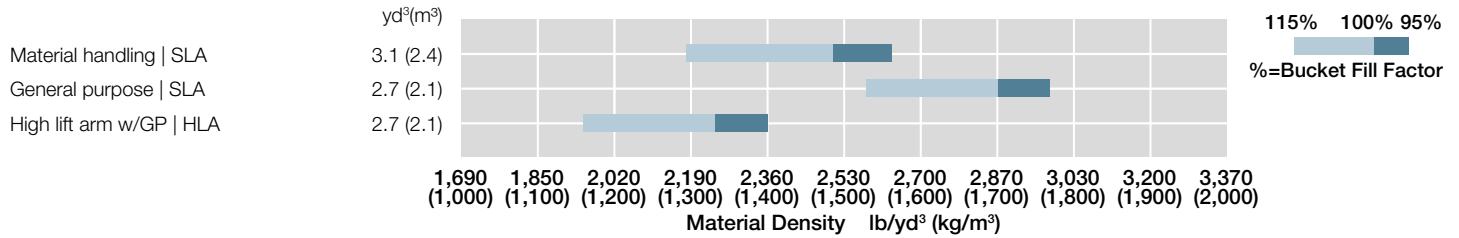
## ZW140-6 FORK SPECIFICATIONS

WITH FORK ATTACHMENT



ZW140-6		ISO (48")	416 (48")	ISO (60")	416 (60")
<b>Q</b>	Max. stacking height	ft 12'	12'1"	12'	12'1"
<b>R</b>	Height of fork at maximum reach	ft 5'7"	5'10"	5'7"	5'10"
<b>S</b>	Reach at ground level	ft 3'11"	3'8"	3'11"	3'8"
<b>T</b>	Max. reach	ft 5'7"	5'6"	5'7"	5'6"
<b>U</b>	Reach at max. stacking height	ft 3'1"	3'	3'1"	3'
Tipping load	Straight	lb 12,316	12,173	11,632	11,501
	Full turn	lb 10,668	10,544	10,076	9,962
Max. payload per EN 474-3, 80%		lb 8,535	8,436	8,061	7,970
Max. payload per EN 474-3, 60%		lb 6,401	6,327	6,046	5,977
SAE allowable load		lb 5,334	5,272	5,038	4,981
Operating weight *		lb 25,846	25,832	25,948	25,935

## ZW140-6 BUCKET SELECTION CHART

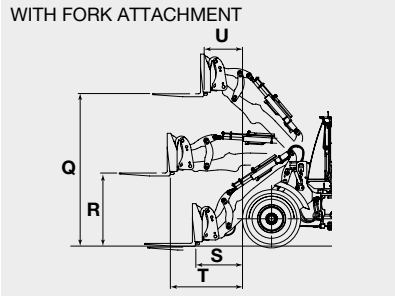


## ZW140-6 WEIGHTS AND DIMENSIONS

		Operating Weight	Tipping Load			Overall Width (Outside Tire)	Overall Height	Overall Length	
			Straight	Full Turn					
Belly guard	lb (kg)	+150 (70)	+70 (30)	+110 (50)	+90 (40)	in (mm)			
Tires:	20.5-25-12PR (L2)	lb (kg)	-400 (-180)	-260 (-120)	-240 (-110)	in (mm)	-3.3 (-85)	-2.4 (-60)	+2.0 (+50)
	20.5-25-12PR (L3)	lb (kg)	-400 (-180)	-260 (-120)	-240 (-110)	in (mm)	+0.6 (+15)	+1.2 (+30)	-1.0 (-25)
Emergency steering (Secondary steering)	lb (kg)	+80 (+35)	+0 (+0)	+0 (+0)	+0 (+0)	in (mm)			
Full covered rear fender	lb (kg)	+70 (+30)	+0 (+0)	+0 (+0)	+0 (+0)	in (mm)			
Bracket for rotating beacon	lb (kg)	+20 (+10)	+0 (+0)	+0 (+0)	+0 (+0)	in (mm)			

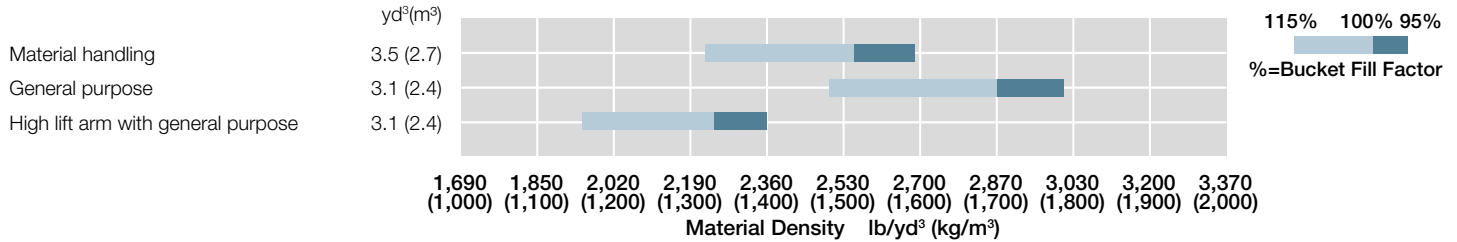
\* Specs highlighted in orange denote Canada only. Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:2009 and ISO 7546:1983  
\* Static tipping load and operating weight include 20.5R25 (L3) tires, ROPS cabin and ride control. Machine stability and operating weight depend on counterweight, tire size and other attachments.

### ZW150-6 FORK SPECIFICATIONS

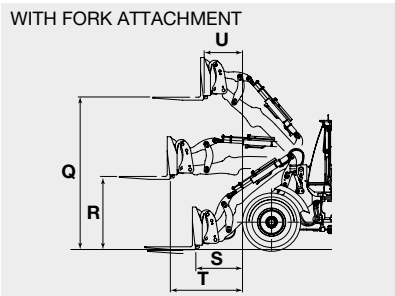


ZW150-6		ISO (48")	416 (48")	ISO (60")	416 (60")	
<b>Q</b>	Max. stacking height	ft	12'	12'1"	12'	12'1"
<b>R</b>	Height of fork at maximum reach	ft	5'7"	5'10"	5'7"	5'10"
<b>S</b>	Reach at ground level	ft	3'11"	3'8"	3'11"	3'8"
<b>T</b>	Max. reach	ft	5'7"	5'6"	5'7"	5'6"
<b>U</b>	Reach at max. stacking height	ft	3'1"	3'	3'1"	3'
Tipping load	Straight	lb	13,798	13,636	13,044	12,896
	Full turn	lb	11,961	11,821	11,308	11,180
	Max. payload per EN 474-3, 80%	lb	9,569	9,457	9,046	8,944
	Max. payload per EN 474-3, 60 %	lb	7,177	7,092	6,785	6,708
	SAE allowable load	lb	5,980	5,910	5,654	5,590
	Operating weight *	lb	27,054	27,040	27,156	27,143

### ZW150-6 BUCKET SELECTION CHART

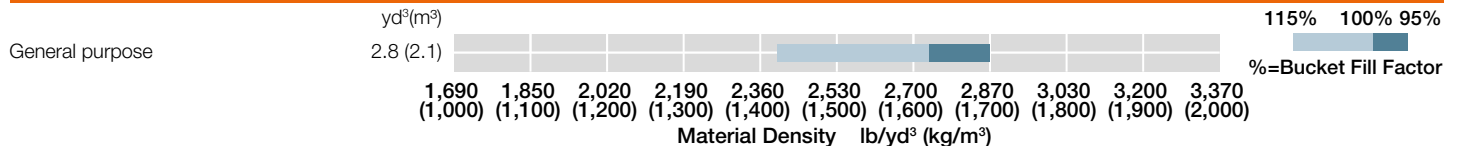


### ZW150PL-6 FORK SPECIFICATIONS



ZW150PL-6		ISO (48")	
<b>Q</b>	Max. stacking height	ft	12'4"
<b>R</b>	Height of fork at maximum reach	ft	5'11"
<b>S</b>	Reach at ground level	ft	3'10"
<b>T</b>	Max. reach	ft	5'11"
<b>U</b>	Reach at max. stacking height	ft	3'2"
Static tipping load	Straight	lb	18,120
	Full 40 degree turn	lb	15,720
	Max. payload per EN 474-3, 80 %	lb	12,350
	Max. payload per EN 474-3, 60 %	lb	9,260
	SAE allowable load	lb	4.0
	Operating weight *	lb	28,440

### ZW150PL-6 BUCKET SELECTION CHART



### ZW150-6 AND ZW150PL-6 WEIGHTS AND DIMENSIONS

	Operating Weight	Tipping Load			Overall Width (Outside Tire)	Overall Height	Overall Length
		Straight	Full Turn				
Belly guard	lb (kg)	+150 (70)	+70 (30) / +110 (50)	+90 (40)	in (mm)		
Tires: 20.5-25-12PR (L2)	lb (kg)	-400 (-180)	-260 (-120)	-240 (-110)	in (mm)	-3.3 (-85)	-2.4 (-60) / +2.0 (+50)
20.5-25-12PR (L3)	lb (kg)	-400 (-180)	-260 (-120)	-240 (-110)	in (mm)	+0.6 (+15)	+1.2 (+30) / -1.0 (-25)
Emergency steering (Secondary steering)	lb (kg)	+80 (+35)	+0 (+0)	+0 (+0)	in (mm)		
Full covered rear fender	lb (kg)	+70 (+30)	+0 (+0)	+0 (+0)	in (mm)		
Bracket for rotating beacon	lb (kg)	+20 (+10)	+0 (+0)	+0 (+0)	in (mm)		

\* Specs highlighted in orange denote Canada only. Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:2009 and ISO 7546:1983  
 \* Static tipping load and operating weight include 20.5R25 (L3) tires, ROPS cabin and ride control. Machine stability and operating weight depend on counterweight, tire size and other attachments.



## STANDARD EQUIPMENT

### ENGINE

Air cleaner, double element
Auto idle shut down
Cold start (air intake heater)
Cooling fan, automatic reversible
Cummins QSB4.5
EGR system
Fuel filter (main), w/water separator
Fuel pre-filter, w/water separator
Pre-cleaner (SyKlone)
SCR system and DOC
VG (Variable Geometry Turbocharger)
Work mode selector

### POWERTRAIN

Brakes, service
Enclosed wet disc
Dual circuit
Inboard mounted
Brake, parking
Spring applied
Oil pressure released
Wet disc type
Coolers, wide fin
Differential, limited slip (F/R)
Drive shafts, low maintenance
F-R direction selector (2-column mounted/HYD-control lever mounted)
Hydrostatic transmission
Inching pedal
Maximum speed adjuster for 1st speed
Traction control
Universal joints, sealed

### HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)
Bucket positioner
Control lever, single, pilot-assisted w/1 aux lever for 3rd spool control
Control lever lock (electric)
Control valve, 3-function, parallel and tandem control
Pump, gear, fixed displacement
Quick coupler control lines and controls
Ride control w/Load sensing valve and automatic shut-off
Steering, orbitrol

### ELECTRICAL

24-volt electrical system
Back-up alarm
Batteries (2), 12V, 930 CCA
Battery disconnect switch
Converter, 12V/15 Amp
Horn, dual electric
Instrument panel, LCD, color
Lights:
2 Headlights (halogen)
4 Forward working lights (LED)
4 Rear working lights (LED)
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
Air conditioner/heater/pressurizer
AM/FM/WB radio with AUX input and Bluetooth
Ashtray
Cab dome lamps (2)
Cigarette lighter
Coat hook
Cooler box storage area
Cup holder (2)
Floor mat
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
Fire extinguisher, 5 lb., 2a:10b:c ratd (w/mounting) (US market only)
Global e-Service, telematic monitoring system
Ladders, inclined
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Rear grill, steel
Steps, rear
Vandalism protection
Z-bar loader linkage

### ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Air cleaner element
	Aftertreatment device
	Brake oil low pressure
	Engine oil low pressure
	Emergency steering alarm
	Engine trouble
	Engine warning
	Fuel filter (water in fuel)
	Hydraulic oil level
	Hydraulic oil temperature
	Overheat (engine coolant)
	Steering oil low pressure
Gauges	DEF/AdBlue® Level
	Engine coolant temperature
	Fuel gauge
	Speedometer
Indicators	Air conditioner display
	Cold start
	Control lever lock
	Eco-operating status
	Engine warning
	Fan reverse rotation
	F-N-R selection
	F-N-R switch enable
	Fuel filter (plugged filter)
	Fuel filter (water in fuel)
	High beam
	HST oil temperature
	HST warning
	Low fuel level
	Maintenance
	Operating mode (Normal, Power)
	Parking brake
	Ride control
	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
Cooling cores, standard spacing (high ambient)
Dual lever hydraulic control
Emergency steering system
Front and full covered rear fenders with mud flaps (20.5 Tire)
Front and half covered rear fenders with mud flaps (20.5 Tire)
High lift arm
Mirror, heated rear view (outside)
Mount bracket, wiring harness and switch for rotating lamp (without beacon) (Canada Only)
Quick coupler & attachments

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

## STANDARD EQUIPMENT

## ENGINE

Air cleaner, double element  
 Auto idle shut down  
 Cold start (glow plug)  
 Cooling fan, automatic reversible  
 Cummins QSB4.5 diesel engine  
 EGR system  
 Fuel filter (main), w/water separator  
 Fuel pre-filter, w/water separator  
 Pre-cleaner (SyKlone)  
 SCR catalyst and DOC  
 VGT (Variable Geometry Turbocharger)  
 Work mode selector

## POWERTRAIN

Brakes, service  
 Enclosed wet disc  
 Dual system  
 Inboard mounted  
 Brake, parking  
 Spring applied  
 Oil pressure released  
 Wet disc type  
 Cooling system cores, wide-fin  
 Differential, limited slip (F/R)  
 Drive shafts, low maintenance  
 F-R direction selector (2-column mounted/HYD-control lever mounted)  
 Hydrostatic transmission  
 Inching pedal  
 Maximum speed adjuster for 1st speed  
 Traction control  
 Universal joints, sealed

## HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)  
 Bucket positioner  
 Quick coupler control lines and controls  
 Control Lever, single, pilot-assisted w/1 aux Lever for 3rd spool control  
 Control lever lock (electric)  
 Control valve, 3-function, parallel control  
 Pump, gear, fixed displacement  
 Quick coupler control lines and controls  
 Ride control w/load sensing valve and automatic shut-off  
 Steering, orbitrol

## ELECTRICAL

24-volt electrical system  
 Back-up alarm  
 Batteries (2), 12V, 930 CCA  
 Battery disconnect switch  
 Converter, 12V/15 Amp  
 Horn, dual electric  
 Instrument panel, LCD, monochrome  
 Lights:  
 2 Headlights (halogen)  
 4 Forward working lights (LED)  
 4 Rear working lights (LED)  
 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  
 Air conditioner/heater/pressurizer  
 AM/FM/WB radio with AUX input and Bluetooth  
 Ashtray  
 Cab dome lamps (2)  
 Cigarette lighter  
 Coat hook  
 Cooler box storage area  
 Cup holder (2)  
 Floor mat  
 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  
 Fire extinguisher, 5 lb., 2a:10b:c ratd (w/mounting) (US market only)  
 Global e-Service, telematic monitoring system  
 Ladders, inclined  
 Lifting eyes  
 Linkage pins, HN bushing  
 Neutral safety start  
 Rear grill, steel  
 Steps, rear  
 Vandalism protection  
 Z-bar loader linkage

## ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Brake oil low pressure
	Engine oil low pressure
	Hydraulic oil level
	Overheat (engine coolant)
Gauges	Steering oil low pressure
	DEF/AdBlue® Level
	Engine coolant temperature
Indicators	Fuel gauge
	HST oil temperature
	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
	F-N-R selection
	F-N-R switch enable
Fuel filter (plugged filter)	
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  
 Cooling cores, standard spacing (high ambient)  
 Dual lever hydraulic control  
 Emergency steering system  
 Front and full covered rear fenders with mud flaps (20.5 Tire)  
 Front and half covered rear fenders with mud flaps (20.5 Tire)  
 High lift arm  
 Mirror, heated rear view (outside)  
 Mount bracket, wiring harness and switch for rotating lamp (without beacon) (Canada Only)  
 Quick coupler & attachments

## STANDARD EQUIPMENT

## ENGINE

Air cleaner, double element
Auto idle shut down
Cold start (glow plug)
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SCR system
VGT (Variable Geometry Turbocharger)
Work mode selector

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Brakes, service
Enclosed wet disc
Dual system
Inboard mounted
Brake, parking
Spring applied
Oil pressure released
Wet disc type
Coolers, wide fin spacing
Differential, limited slip (F/R)
Drive shafts, low maintenance
F-R direction selector (2-column mounted/HYD-control lever mounted)
Hydrostatic transmission
Inching pedal
Maximum speed adjuster for 1st speed
Traction control
Universal joints, sealed

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Bucket positioner
Control Lever, single, pilot-assisted w/1 aux lever for 3rd spool control
Control lever lock (electric)
Control valve, 3-function, parallel control
Pump, gear, fixed displacement
Quick Coupler Control Lines and Controls
Ride Control w/Load sensing valve and automatic shut-off
Steering, orbital

## ELECTRICAL

24-volt electrical system
Back-up alarm
Batteries (2), 12V, 930 CCA
Battery disconnect switch
Converter, 12V/15 Amp
Horn, dual electric
Instrument panel, LCD, monochrome
Lights:
2 Headlights (halogen)
4 Forward working lights (LED)
4 Rear working lights (LED)
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
Air conditioner/heater/pressurizer
AM/FM/WB radio with AUX input and Bluetooth
Ashtray
Cab dome lamps (2)
Cigarette lighter
Coat hook
Cooler box storage area
Cup holder (2)
Floor mat
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
Fire extinguisher, 5 lb., 2a:10b:c ratd (w/mounting) (US market only)
Global e-Service, telematic monitoring system
Ladders, inclined
Lifting eyes
Linkage, parallel, sealed
Linkage pins, HN bushing
Neutral safety start
Rear grill, steel
Steps, rear
Vandalism protection
Quick coupler

## ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Brake oil low pressure
	Engine oil low pressure
	Hydraulic oil level
	Overheat (engine coolant)
	Steering oil low pressure
Gauges	DEF/AdBlue® Level
	Engine coolant temperature
	Fuel gauge
	HST oil temperature
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
	F-N-R selection
	F-N-R switch enable
	Fuel filter (plugged filter)
	Fuel filter (water in fuel)
	High beam
	HST oil temperature
	HST warning
	Maintenance
	Operating mode (Normal, Power)
	Parking brake
	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
Cooling cores, standard spacing (high ambient)
Dual lever hydraulic control
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Front and full covered rear fenders with mud flaps (20.5 Tire)
Front and half covered rear fenders with mud flaps (20.5 Tire)
High lift arm
Mirror, heated rear view (outside)
Mount bracket, wiring harness and switch for rotating lamp (without beacon) (Canada Only)
Quick coupler & attachments



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Reliable solutions



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