

ZW-6 series

HITACHI

Reliable solutions

ZW120/140/150/150_{PL}



*Machine representative of global product.
Options may not be available in all markets.*

WHEEL LOADER

Model:	ZW120-6	ZW140-6	ZW150-6	ZW150PL-6
Gross engine rated power:	101 hp/74 kW (ISO14396)	141 hp/104 kW (ISO14396)	141 hp/104 kW (ISO14396)	141 hp/104 kW (ISO14396)
Operating weight:	18,590–19,850 lb (8,430–9,000 kg)	25,661–26,169 lb (11,640–11,870 kg)	27,029–27,540 lb (12,260–12,4690 kg)	27,010–28,440 lb (12,830–12,900 kg)
Bucket ISO heaped:	2.0–2.4 yd ³ (1.5–1.8 m ³)	2.7– 3.1 yd ³ (2.1–2.4 m ³)	3.1–3.5 yd ³ (2.4–2.7 m ³)	2.7 yd ³ (2.1 m ³)

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).

*ZW140-6/ZW150-6/
ZW150PL-6 only



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 ZW120-6/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.



Added protection

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

Durable materials

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



Strengthened components

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

The optional belly guard provides added protection.

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

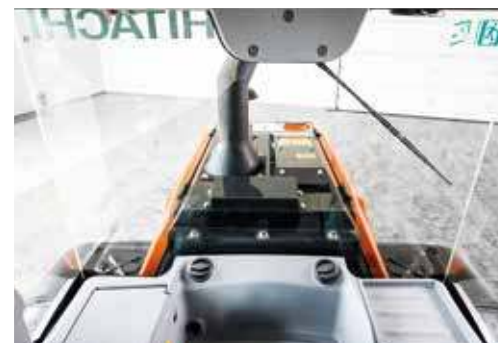
running costs. It is highly effective for light applications.

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 ZW120/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.

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.



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

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.

*ZW140-6/ZW150-6/ZW150PL-6 only

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.

*ZW140-6/ZW150-6/ZW150PL-6 only

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 ZW120-6, 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 Support Chain after-sales 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



Global e-Service



Technical support



Hitachi Parts

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.
- 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.

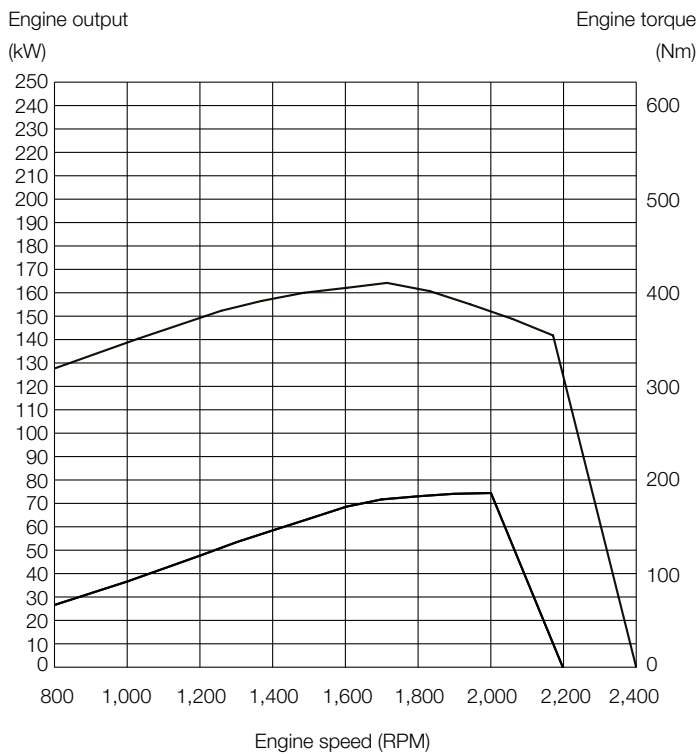
Hitachi Construction Machinery Co., Ltd. (HCM) was founded in 1970 as a subsidiary of Hitachi, Ltd. and has become one of the world's largest construction equipment suppliers. A pioneer in producing hydraulic excavators, HCM also manufactures wheel loaders, rigid dump trucks, crawler cranes and special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

ENGINE

Model	DEUTZ TCD3.6L4F
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	4
Maximum rated power	
ISO 14396, gross	101 hp (74 kW) at 2,000 min ⁻¹ (rpm)
ISO 9249, net	96 hp (71 kW) at 2,000 min ⁻¹ (rpm)
Maximum torque	400 Nm at 1,600 min ⁻¹ (rpm)
Bore and stroke	3.9 in x 4.7 in (98 mm x 120 mm)
Piston displacement	221 in ³ (3,621 L)
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final



POWERTRAIN

Transmission	Electrical-controlled 1 motor hydrostatic transmission with gear box, Gear box: Fixed gear ratio, powershift countershaft type
Cooling method	Forced circulation type
Travel speed* Forward/Reverse	
1st	11.5/7.1 km/mph
2nd	21.4/34.5 km/mph
* With 17.5-25-12PR (L-2) tire	

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and differential gear	Two stage reduction with torque proportional differential
Oscillation angle	Total 20° (+10°, -10°)
Final drives	Heavy-duty planetary, mounted inboard

BRAKES

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 brakes	Spring applied, hydraulically released, wet disc type

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 2.4 in x 15.6 in (2 x 60 mm x 395 mm)

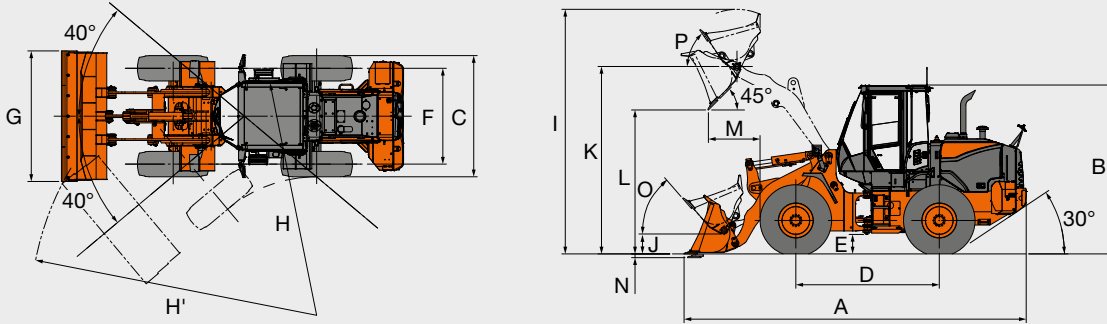
HYDRAULIC SYSTEM

Arm and bucket are controlled by multi function control lever	
Arm controls	Four position valve; Raise, hold, lower, float
Bucket controls with automatic bucket return to-dig control	Three position valve; Roll back, hold, dump
Main pump (Load & steer)	
.....	Gear type 32.0 gal/min (121 L/min) at 2,000 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm ²)
Relief pressure setting	20.6 MPa (210 kgf/cm ²)
HST charging pump	Gear type 10.4 gal/min (39.2 L/min) at 2,000 min ⁻¹ (rpm) at 2.5 MPa (25 kgf/cm ²)
Transmission charging pump	Gear type 5.9 gal/min (22 L/min) at 2,000 min ⁻¹ (rpm) at 1.8 MPa (18 kgf/cm ²)
Hydraulic cylinders	
Type	Double acting type
No. x Bore x Stroke ...	Arm: 2 x 4.1 in x 28.0 in (2 x 105 mm x 710 mm) Bucket: 1 x 4.9 in x 17.5 in (1 x 125 mm x 445 mm)
Filters	Full-flow 10 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise	6.6 s
Lift arm lower	2.7 s
Bucket dump	1.6 s
Total	10.9 s

SERVICE REFILL CAPACITIES

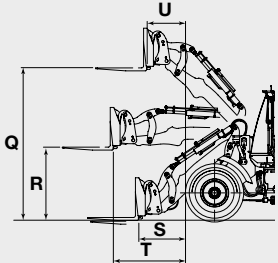
Fuel tank	39.62 gal (150 L)
Engine coolant	4.20 gal (16 L)
Engine oil	2.80 gal (10.5 L)
Front axle differential & wheel hubs	3.70 gal (14 L)
Rear axle differential & wheel hubs	3.70 gal (14 L)
Hydraulic oil tank	19.8 gal (75 L)
DEF/AdBlue [®] tank	4.50 gal (17 L)

DIMENSIONS & SPECIFICATIONS



Bucket type		Standard arm		High lift arm	
		General purpose		General purpose	
		Bolt-on cutting edge			
Bucket capacity	ISO heaped	yd ³ (m ³)	2.0 (1.5)	2.4 (1.8)	2.0 (1.5)
	ISO struck	yd ³ (m ³)	1.6 (1.2)	1.5 (1.4)	1.6 (1.2)
A Overall length		ft (mm)	21.0 (6,545)	21.3 (6,650)	21.0 (7,105)
B Overall height		ft (mm)		10.5 (3,210)	
C Width over tires		ft (mm)		7.4 (2,270)	
D Wheel base		ft (mm)		8.9 (2,725)	
E Ground clearance		in (mm)		14.6 (370)	
F Tread		ft (mm)		6.0 (1,820)	
G Bucket width		ft (mm)		8.0 (2,450)	
H Turning radius (Centerline of outside tire)		ft (mm)		16.2 (4,915)	
H' Loader clearance circle, bucket in carry position		ft (mm)	17.8 (5,430)	17.9 (5,460)	18.4 (5,610)
I Overall operating height		ft (mm)	15.3 (4,650)	15.6 (4,760)	16.4 (4,990)
J Carry Height of bucket pin		ft (mm)	1.5 (455)	1.5 (455)	1.5 (455)
K Height to bucket hinge pin, fully raised		ft (mm)	11.7 (3,560)	11.7 (3,560)	12.8 (3,900)
L Dumping clearance 45 degree, full height		ft (mm)	8.9 (2,705)	8.6 (2,630)	10.0 (3,040)
M Reach, 45 degree dump, full height		ft (mm)	3.3 (1,010)	3.5 (1,080)	3.9 (1,190)
N Digging depth (Horizontal digging angle)		in (mm)	2.8 (70)	2.8 (70)	8.3 (210)
O Max. roll back at carry position		deg		49	50
P Roll back angle at full height		deg		56	52
Static tipping load *	Straight	lb (kg)	14,330 (6,500)	14,200 (6,440)	12,940 (5,870)
	Full 40 degree turn	lb (kg)	12,390 (5,620)	12,240 (5,550)	11,140 (5,050)
Breakout force		lbf (kgf)	16,840 (7,520)	14,970 (6,790)	16,590 (7,520)
		kN	74.9	66.6	73.8
Operating weight *		lb (kg)	18,590 (8,430)	18,760 (8,510)	19,850 (9,000)

WITH FORK ATTACHMENT



		ZW120-6	ISO (48)	416 (48)	ISO (60)	416 (48)
Q	Max. stacking height	ft (mm)	11.3 ()	11.4 ()	11.3 ()	11.4 ()
R	Height of fork at maximum reach	ft (mm)	5.7 ()	5.9 ()	5.7 ()	5.9 ()
S	Reach at ground level	ft (mm)	3.4 ()	3.3 ()	3.4 ()	3.3 ()
T	Max. reach	ft (mm)	5.4 ()	5.5 ()	5.4 ()	5.5 ()
U	Reach at max. stacking height	ft (mm)	3.3 ()	3.4 ()	3.3 ()	3.4 ()
Tipping load	Straight	lbf (kgf)	7,996 ()	7,681 ()	7,498 ()	7,211 ()
	Full turn	lbf (kgf)	6,913 ()	6,641 ()	6,483 ()	6,235 ()
Max. payload per EN 474-3, 80%		lb (kg)	5,531 ()	5,313 ()	5,187 ()	4,988 ()
Max. payload per EN 474-3, 60%		lb (kg)	4,148 ()	3,985 ()	3,890 ()	3,741 ()
SAE allowable load		ft (mm)	3,457 ()	3,321 ()	3,242 ()	3,118 ()
Operating weight *		lb (kg)	19,134 ()	19,136 ()	19,236 ()	19,239 ()

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

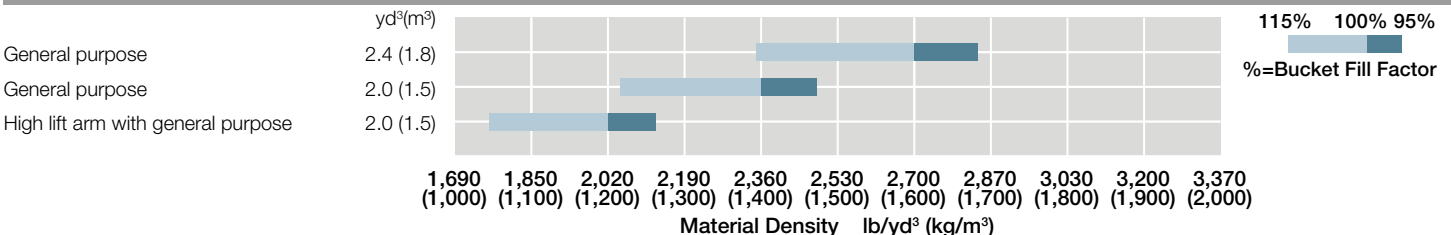
: Static tipping load and operating weight marked with include 17.5-25-12PR (L-2) tires (No ballast) with lubricants, full fuel tank and operator.

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

WEIGHT & SPECIFICATION CHANGES

Option item	Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
		Straight	Full turn			
Tire 17.5R25	±0	±0	±0	±0	±0	±0
Belly guard	+154 (70)	+132 (60)	+110 (50)	±0	±0	±0

BUCKET SELECTION GUIDE



STANDARD EQUIPMENT

ENGINE

Air cleaner, double element
Cold start (glow plug)
Cooler, wide fin
Deutz TCD36 diesel engine
EGR system
Fuel filter (main), w/water separator
Fuel pre-filter, w/water separator
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
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, dual (operator adjustable in cab)
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
Lights:
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
Coat hook
Cooler box storage area
Cup holder (2)
Floormat
Retractable seat belt (3 inch)
ROPS/FOPS certified
Seat, air suspension, fabric
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 (GSM-version w/4 yrs. service)
Ladders, inclined
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Steps, rear
Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)	Brake oil low pressure
	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

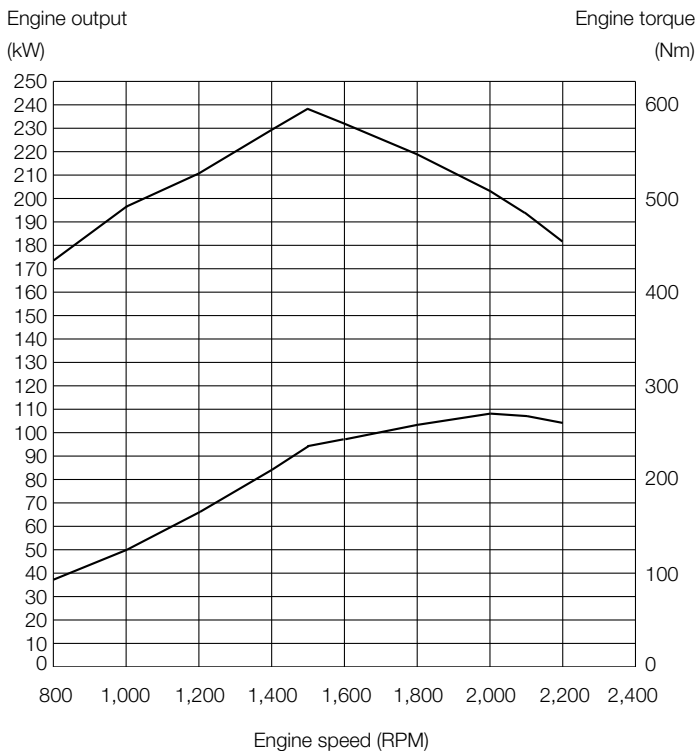
Belly guard, front chassis, transmission (rear)
Bolt-on cutting edge & segments
Camera, rear view
Fenders, rear, full, w/mudflap
HID work lights
High lift boom arm
Hydraulic system, 3rd function control
LED work lights
Pre-cleaner (turbine type)
Quick coupler & attachments
Seat, heated
Secondary steering

SPECIFICATIONS

ZW140-6/ZW150-6/ZW150PL-6

ENGINE

Model	CUMMINS QSB4.5
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	4
Maximum rated power	
ISO 14396, gross	141 hp (104 kW) at 2,200 min ⁻¹ (rpm)
ISO 9249, net	140 hp (103 kW) at 2,200 min ⁻¹ (rpm)
Maximum torque	597 Nm at 1 500 min ⁻¹ (rpm)
Bore and stroke	4.2 in x 4.9 in (107 mm x 124 mm)
Piston displacement	272.1 in ³ (4.460 L)
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final



POWERTRAIN

Transmission	Electrical-controlled 2 motor hydrostatic transmission with summation gear box, Gear box: Fixed gear ratio, powershift countershaft type
Cooling method	Forced circulation type
Travel speed* Forward/Reverse	
1st	7.0/4.3 km/mph
2nd	13.0/8.0 km/mph
3rd	20.0/12.42 km/mph
4th	39.0/24.2 km/mph
* With 20.5 R25 (L3) tires	

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and differential gear	Two stage reduction with limited slip differential
Oscillation angle	Total 20° (+10°, -10°)
Final drives	Heavy-duty planetary, mounted inboard

BRAKES

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 brakes	Spring applied, hydraulically released, wet disc type

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 2.6 in x 16.5 in (2 x 65 mm x 419 mm)

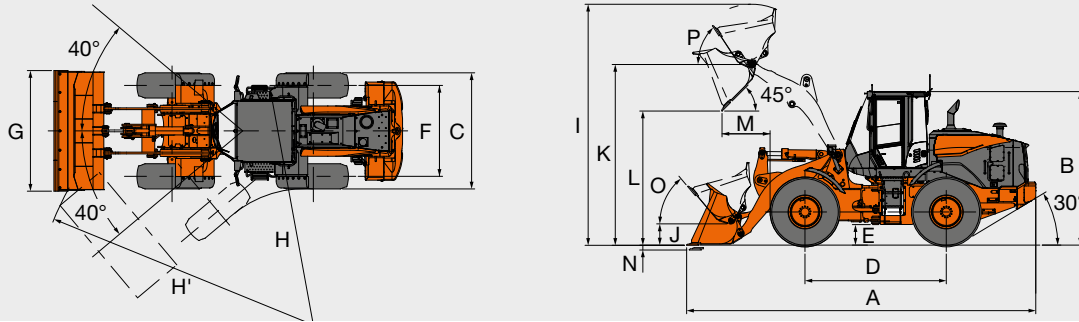
HYDRAULIC SYSTEM

Arm and bucket are controlled by multi function control lever		
Arm controls	Four position valve; Raise, hold, lower, float	
Bucket controls with automatic bucket return to-dig control		
.....	Three position valve; Roll back, hold, dump	
Main pump (Load & steer)		
.....	Gear type 51.2 gal/min (194 L/min) at 2 200 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm ²)	
Relief pressure setting	20.6 MPa (210 kgf/cm ²)	
HST charging pump	Gear type 14.2 gal/min (53.9 L/min) at 2,200 min ⁻¹ (rpm) at 2.45 MPa (25 kgf/cm ²)	
Transmission charging pump	Gear type 4.6 gal/min (17.6 L/min) at 2,200 min ⁻¹ (rpm) at 1.96 MPa (20 kgf/cm ²)	
ZW140-6/ZW150-6 Hydraulic cylinders		
Type	Double acting type	
No. x Bore x Stroke ...	Arm: 2 x 4.9 in x 29.9 in (2 x 125 mm x 760 mm) Bucket: 1 x 5.9 in x 19.5 in (1 x 150 mm x 495 mm)	
ZW150PL-6 Hydraulic cylinders		
Type	Double acting type	
No. x Bore x Stroke ...	Arm: 2 x 4.9 in x 29.9 in (2 x 125 mm x 760 mm) Bucket: 2 x 4.3 in 39.6 in (2 x 110 mm x 1 005 mm)	
Filters	Full-flow 10 micron return filter in reservoir	
Hydraulic cycle times	ZW140-6/ZW150-6	ZW150PL-6
Lift arm raise	6.0 s	6.0 s
Lift arm lower	4.5 s	3.4 s
Bucket dump	1.4 s	3.4 s
Total	11.9 s	12.8 s

SERVICE REFILL CAPACITIES

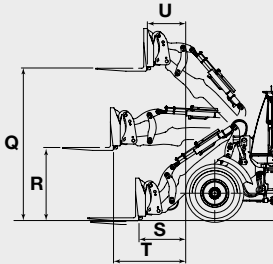
Fuel tank	50.2 gal (190 L)
Engine coolant	2.6 gal (10 L)
Engine oil	4.2 gal (16 L)
Front axle differential & wheel hubs	6.6 gal (25 L)
Rear axle differential & wheel hubs	6.6 gal (25 L)
Hydraulic oil tank	21.1 gal (80 L)
DEF/AdBlue® tank	3.2 gal (12 L)

DIMENSIONS & SPECIFICATIONS



Bucket type		Standard arm		High lift arm	
		General purpose	Material Handling	Material Handling	
		Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge	
Bucket capacity	ISO heaped	yd ³ (m ³)	2.7 (2.1)	3.1 (2.4)	2.7 (2.1)
	ISO struck	yd ³ (m ³)	2.4 (1.8)	2.6 (2.0)	2.4 (1.8)
A Overall length		ft (mm)	23.9 (7,290)	24.1 (7,345)	25.5 (7,780)
B Overall height		ft (mm)		10.7 (3,265)	
C Width over tires		ft (mm)		8.2 (2,490)	
D Wheel base		ft (mm)		9.8 (3,000)	
E Ground clearance		in (mm)		17.1 (435)	
F Tread		ft (mm)		6.3 (1,930)	
G Bucket width		ft (mm)		8.4 (2,560)	
H Turning radius (Centerline of outside tire)		ft (mm)	16.7 (5,085)	16.7 (5,085)	16.7 (5,085)
H' Loader clearance circle, bucket in carry position		ft (mm)	19.5 (5,935)	19.5 (5,950)	20.1 (6,140)
I Overall operating height		ft (mm)	16.6 (5,050)	16.9 (5,150)	17.8 (5,420)
J Carry Height of bucket pin		ft (mm)	1.7 (515)	1.7 (515)	1.7 (515)
K Height to bucket hinge pin, fully raised		ft (mm)	12.6 (3,840)	12.6 (3,840)	13.8 (4,200)
L Dumping clearance 45 degree, full height		ft (mm)	9.5 (2,890)	9.3 (2,830)	10.7 (3,255)
M Reach, 45 degree dump, full height		ft (mm)	3.3 (990)	3.4 (1,030)	3.9 (1,185)
N Digging depth (Horizontal digging angle)		in (mm)	3.7 (95)	3.7 (95)	11.0 (280)
O Max. roll back at carry position		deg		50	
P Roll back angle at full height		deg	55	55	50
Static tipping load *	Straight	lb (kg)	20,260 (9,190)	20,150 (9,140)	16,028 (7,270)
	Full 40 degree turn	lb (kg)	17,570 (7,970)	17,461 (7,920)	13,823 (6,270)
Breakout force		lb (kgf)	24,054 (10,910)	22,031 (10,446)	23,380 (10,604)
		kN	107	100	103
Operating weight *		lb (kg)	25,661 (11,640)	25,816 (11,710)	26,169 (11,870)

WITH FORK ATTACHMENT



	ZW140-6	ISO (48)	416 (48)	ISO (60)	416 (48)	
Q Max. stacking height	ft (mm)	11.9 ()	12.1 ()	11.9 ()	12.1 ()	
R Height of fork at maximum reach	ft (mm)	5.6 ()	5.8 ()	5.6 ()	5.8 ()	
S Reach at ground level	ft (mm)	3.9 ()	3.7 ()	3.9 ()	3.7 ()	
T Max. reach	ft (mm)	5.6 ()	5.5 ()	5.6 ()	5.5 ()	
U Reach at max. stacking height	ft (mm)	3.1 ()	3.0 ()	3.1 ()	3.0 ()	
Tipping load	Straight	lbf (kgf)	12,316 ()	12,173 ()	11,632 ()	11,501 ()
	Full turn	lbf (kgf)	10,668 ()	10,544 ()	10,076 ()	9,962 ()
Max. payload per EN 474-3, 80%	lb (kg)	8,535 ()	8,436 ()	8,061 ()	7,970 ()	
Max. payload per EN 474-3, 60%	lb (kg)	6,401 ()	6,327 ()	6,046 ()	5,977 ()	
SAE allowable load	ft (mm)	5,334 ()	5,272 ()	5,038 ()	4,981 ()	
Operating weight *	lb (kg)	25,846 ()	25,832 ()	25,948 ()	25,935 ()	

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

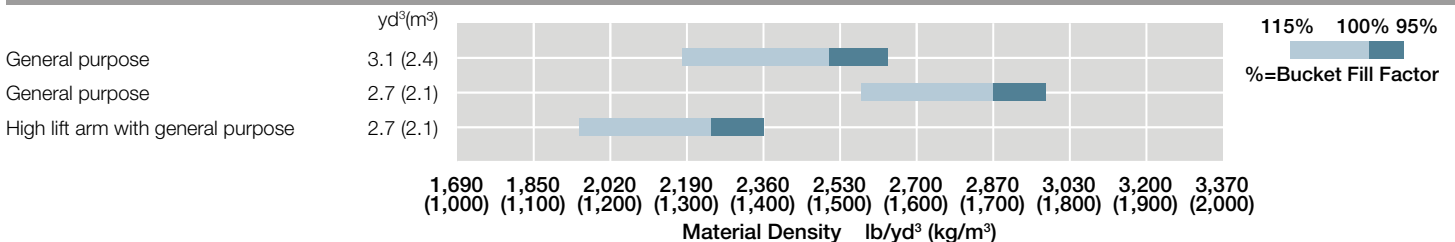
: Static tipping load and operating weight marked with include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.

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

WEIGHT & SPECIFICATION CHANGES

Option item	Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)	
		Straight	Full turn				
Tire	17.5-25-12PR (L2)	-1,230 (-560)	-440 (-200)	-400 (-180)	-3.7 (-95)	-3.0 (-75)	2.4 (+60)
	17.5-25-12PR (L3)	-1,040 (-470)	-220 (-100)	-260 (-120)	-3.7 (-95)	-3.0 (-75)	2.4 (+60)
	20.5R25 (L3)	±0	±0	±0	±0	±0	±0
Belly guard	+150 (70)	+70 (30)	+90 (40)	±0	±0	±0	

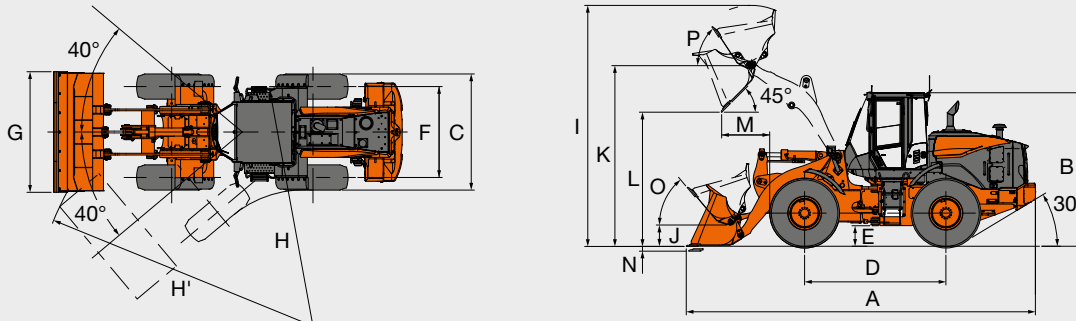
BUCKET SELECTION GUIDE



SPECIFICATIONS

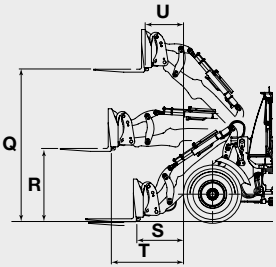
ZW150-6

DIMENSIONS & SPECIFICATIONS



Bucket type		Standard arm		High lift arm	
		General purpose		Material Handling	
		Bolt-on cutting edge		Bolt-on cutting edge	
Bucket capacity	ISO heaped	yd ³ (m ³)	3.1 (2.4)	3.5 (2.7)	3.1 (2.4)
	ISO struck	yd ³ (m ³)	2.6 (2.0)	2.9 (2.2)	2.6 (2.0)
A Overall length		ft (mm)	24.3 (7,420)	24.7 (7,530)	25.77 (7,855)
B Overall height		ft (mm)		10.7 (3,265)	
C Width over tires		ft (mm)	8.2 (2,490)	8.2 (2,490)	8.2 (2,490)
D Wheel base		ft (mm)		9.8 (3,000)	
E Ground clearance		in (mm)		17.1 (435)	
F Tread		ft (mm)		7.6 (1,930)	
G Bucket width		ft (mm)		8.4 (2,560)	
H Turning radius (Centerline of outside tire)		ft (mm)	16.7 (5,085)	16.7 (5,085)	17.6 (5,355)
H' Loader clearance circle, bucket in carry position		ft (mm)	19.5 (5,950)	19.6 (5,980)	20.2 (6,155)
I Overall operating height		ft (mm)	17.03 (5,190)	17.15 (5,230)	18.2 (5,555)
J Carry Height of bucket pin		ft (mm)		1.2 (380)	
K Height to bucket hinge pin, fully raised		ft (mm)	12.6 (3,840)	12.6 (3,840)	13.8 (4,200)
L Dumping clearance 45 degree, full height		ft (mm)	9.3 (2,845)	9.1 (2,765)	10.5 (3,205)
M Reach, 45 degree dump, full height		ft (mm)	3.4 (1,030)	3.6 (1,105)	4.0 (1,220)
N Digging depth (Horizontal digging angle)		in (mm)	3.7 (95)	3.7 (95)	11.0 (280)
O Max. roll back at carry position		deg		50	
P Roll back angle at full height		deg	57	57	52
Static tipping load *	Straight	lb (kg)	22,950 (10,410)	22,619 (10,260)	18,188 (8,250)
	Full 40 degree turn	lb (kg)	19,930 (9,040)	19,643 (8,910)	15,719 (7,130)
Breakout force		lb (kgf)	22,031 (10,446)	19,709 (8,940)	21,356 (9,686)
		kN	100	90	97
Operating weight *		lb (kg)	27,029 (12,260)	27,117 (12,300)	27,540 (12,490)

WITH FORK ATTACHMENT



		ZW150-6	ISO (48)	416 (48)	ISO (60)	416 (48)
Q	Max. stacking height	ft (mm)	11.9 ()	12.1 ()	11.9 ()	12.1 ()
R	Height of fork at maximum reach	ft (mm)	5.6 ()	5.8 ()	5.6 ()	5.8 ()
S	Reach at ground level	ft (mm)	3.9 ()	3.7 ()	3.9 ()	3.7 ()
T	Max. reach	ft (mm)	5.6 ()	5.5 ()	5.6 ()	5.5 ()
U	Reach at max. stacking height	ft (mm)	3.1 ()	3.0 ()	3.1 ()	3.0 ()
Tipping load	Straight	lbf (kgf)	13,798 ()	13,636 ()	13,044 ()	12,896 ()
	Full turn	lbf (kgf)	11,961 ()	11,821 ()	11,308 ()	11,180 ()
	Max. payload per EN 474-3, 80%	lb (kg)	9,569 ()	9,457 ()	9,046 ()	8,944 ()
	Max. payload per EN 474-3, 60 %	lb (kg)	7,177 ()	7,092 ()	6,785 ()	6,708 ()
	SAE allowable load	ft (mm)	5,980 ()	5,910 ()	5,654 ()	5,590 ()
	Operating weight *	lb (kg)	27,054 ()	27,040 ()	27,156 ()	27,143 ()

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

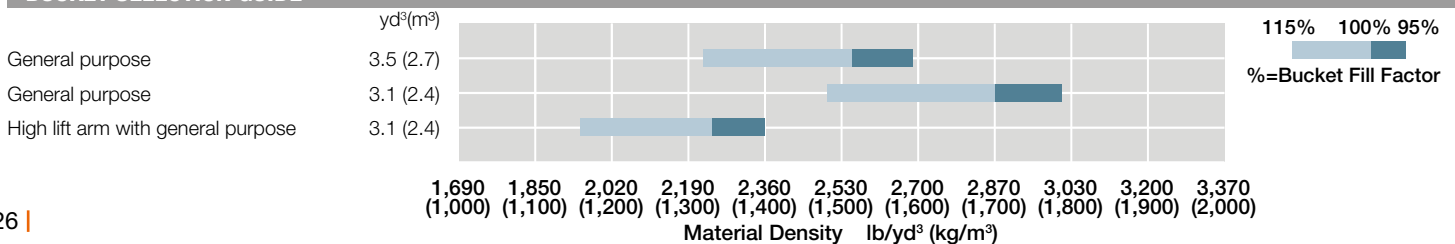
: Static tipping load and operating weight marked with include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.

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

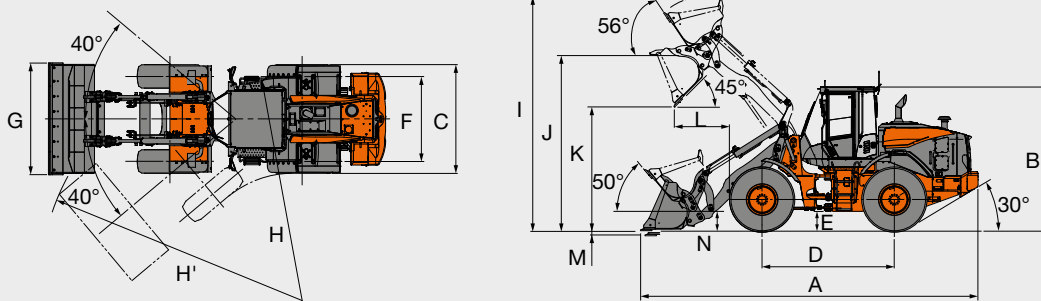
WEIGHT & SPECIFICATION CHANGES

Option item	Operating weight lb (kg)	Tipping load kg (lb)		Overall width mm (in) (outside tire)	Overall height mm (in)	Overall length mm (in)
		Straight	Full turn			
Tire	20.5-25-12PR (L2)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0
	20.5-25-12PR (L3)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0
	20.5R25 (L3)	±0	±0	±0	±0	±0
Belly guard	+150 (70)	+70 (30)	+90 (40)	±0	±0	±0

BUCKET SELECTION GUIDE

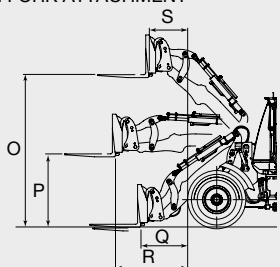


DIMENSIONS & SPECIFICATIONS



Bucket type		General purpose	
		Bolt-on cutting edge	
Bucket capacity	ISO heaped	yd ³ (m ³)	2.7 (2.1)
	ISO struck	yd ³ (m ³)	2.4 (1.8)
A Overall length		ft (mm)	24.8 (7,735)
B Overall height		ft (mm)	10.7 (3,265)
C Width over tires		ft (mm)	8.2 (2,490)
D Wheel base		ft (mm)	9.8 (3,000)
E Ground clearance		in (mm)	17.1 (435)
F Tread		ft (mm)	6.3 (1,930)
G Bucket width		ft (mm)	8.4 (2,560)
H Turning radius (Centerline of outside tire)		ft (mm)	16.7 (5,085)
H' Loader clearance circle, bucket in carry position		ft (mm)	19.8 (6,030)
I Overall operating height		ft (mm)	17.6 (5,360)
J Height to bucket hinge pin, fully raised		ft (mm)	12.6 (3,975)
K Dumping clearance 45 degree, full height		ft (mm)	9.2 (2,805)
L Reach, 45 degree dump, full height		ft (mm)	3.4 (1,280)
M Digging depth (Horizontal digging angle)		in (mm)	3.5 (90)
N Carry height of bucket pin		in (mm)	20.7 (525)
Bucket weight		lb (kg)	2,840 (1,290)
Static tipping load *	Straight	lb (kg)	20,128 (9,130)
	Full 40 degree turn	lb (kg)	17,394 (7,890)
Breakout force		lbf (kgf)	24,030 (10,900)
		kN	103
Operating weight *		lb (kg)	27,010 (12,830)

WITH FORK ATTACHMENT



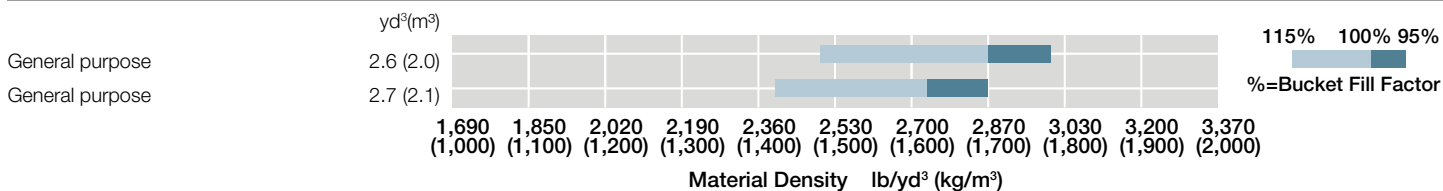
Attachment type		Fork	
O	Max. stacking height	ft (mm)	12.3 (3,740)
P	Height of fork at maximum reach	ft (mm)	5.9 (1,810)
Q	Reach at ground level	ft (mm)	3.8 (1,170)
R	Max. reach	ft (mm)	5.9 (1,790)
S	Reach at max. stacking height	ft (mm)	3.2 (990)
Static tipping load	Straight	lbf (kgf)	18,120 (8,220)
	Full 40 degree turn	lbf (kgf)	15,720 (7,130)
Max. payload per EN 474-3, 80 %		lb (kg)	12,350 (5,600)
Max. payload per EN 474-3, 60 %		lb (kg)	9,260 (4,200)
SAE allowable load		ft (mm)	4.0 (1,220)
Operating weight *		lb (kg)	28,440 (12,900)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997, ISO 7546:1983 and ISO 8313:1989
 : Static tipping load and operating weight marked with include 20.5R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator.
 Machine stability and operating weight depend on counterweight, tire size and other attachments.

WEIGHT & SPECIFICATION CHANGES

Option item	Operating weight lb (kg)	Tipping load lb (kg)			Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
		Straight	Full turn				
Tire	20.5-25-12PR (L2)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0	±0
	20.5-25-12PR (L3)	-400 (-180)	-240 (-110)	-260 (-120)	±0	±0	±0
	20.5R25 (L3)	±0	±0	±0	±0	±0	±0
Belly guard	+150 (70)	+70 (30)	+90 (40)		±0	±0	±0

BUCKET SELECTION GUIDE



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
 SCR system 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
 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-spool, 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)
 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
 Coat hook
 Cooler box storage area
 Cup holder (2)
 Floormat
 Retractable seat belt (3 inch)
 ROPS/FOPS certified
 Seat, air suspension, fabric
 Steering column, telescoping and tilting w/quick-release pedal
 Storage box (heated/cooled)
 Sun visor

OTHERS

Articulation locking bar
 Counterweight
 Drawbar
 Fenders, front, w/mudflap
 Fenders, rear, deck-type, w/mudflap
 Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
 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 edge & segments
 Bucket teeth
 Camera, rear view
 Cooling system cores, narrow fin
 Dual lever hydraulic control
 Fenders, rear, full, w/mudflap
 HID work lights
 High lift boom arm
 LED work lights
 Pre-cleaner (turbine type)
 Quick coupler & attachments
 Quick coupler, ISO
 Seat, heated

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
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-spool, 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)
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
Coat hook
Cooler box storage area
Cup holder (2)
Floormat
Retractable seat belt (3 inch)
ROPS/FOPS certified
Seat, air suspension, fabric
Steering column, telescoping and tilting w/quick-release pedal
Storage box (heated/cooled)
Sun visor

OTHERS

Articulation locking bar
Counterweight
Drawbar
Fenders, front, w/mudflap
Fenders, rear, deck-type, w/mudflap
Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
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
Gauges	Overheat (engine coolant)
	Steering oil low pressure
	DEF/AdBlue® Level
Indicators	Engine coolant temperature
	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 edge & segments
Bucket teeth
Camera, rear view
Dual lever hydraulic control
Fenders, rear, full, w/mudflap
HID work lights
High lift boom arm
LED work lights
Pre-cleaner (turbine type)
Quick coupler & attachments
Quick coupler, ISO

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
EGR system
Fuel filter (main), w/water separator
Fuel pre-filter, w/water separator
SCR system
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
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

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-spool, 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)
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
Coat hook
Cooler box storage area
Cup holder (2)
Floormat
Retractable seat belt (3 inch)
ROPS/FOPS certified
Seat, air suspension, fabric
Steering column, telescoping and tilting w/quick-release pedal
Storage box (heated/cooled)
Sun visor

OTHERS

Articulation locking bar
Counterweight
Drawbar
Fenders, front, w/mudflap
Fenders, rear, deck-type, w/mudflap
Global e-Service, telematic monitoring system (GSM-version w/4 yrs. service)
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 edge & segments
Camera, rear view
Dual lever hydraulic control
Fenders, rear, full, w/mudflap
HID work lights
LED work lights
Pre-cleaner (turbine type)
Seat, heated

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

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.



Reliable solutions



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

KL-EN142NA-USP

11/2019

Printed in USA