

HITACHI

**CONSTRUCTION
WHEEL LOADER**
ZW180-7 | ZW180PL-7



Reliable Solutions



Bucket Capacity : 3.4 - 4.2 yd³ (2.6 - 3.2 m³)
Engine Output : 173 HP (129 kW)
Operating Weight : 33,245 - 34,259 lbs (14,995 kg)
Model Code : ZW180-7 | ZW180PL-7

ZW180
ZW180PL

A Legacy of Confidence

Known worldwide, Hitachi Construction Machinery has helped generations of builders, doers, and earth-movers accomplish their goals. Hitachi Construction Machinery Americas is the source for all U.S. and Latin American operations hoping to improve productivity and reduce costs — all while building our shared future.

Pioneering Progress Together

From dedicated Rental and Used machines business to servicing, parts sales, and remote diagnostic support, Hitachi Construction Machinery Americas has the know-how and desire to establish productive working partnerships across the region. A network of independent, local dealers providing sales and service support are at the ready, waiting to begin work on the next phase of your legacy.



Welcome to

Hitachi Construction

Endless Ambition

All of our machines have been built at state-of-the-art Hitachi Construction Machinery production facilities in Japan, after incorporating the unique needs of our North American customers. Designed for the toughest terrains, harshest environments and most intricate projects, we believe there is no job that couldn't make use of our machine.

Unwavering Dependability

Our dedication to reliability parallels our commitment for your comfort. Safety is non-negotiable; our machines adhere to the highest standards, ensuring your team's well-being. Count on Hitachi Construction Machinery Americas for peace of mind to ensure every team member returns home safely after a hard day's work.



Machinery Americas

Command with **QUALITY**

We're proud to introduce the latest range of wheel loaders worthy of the Hitachi Construction Machinery Americas equipment name.

At job sites across the world, our partners depend on the latest Hitachi Construction Machinery Americas equipment for increased productivity, improved operator comfort, efficient maintenance needs and innovative safety features proven to keep workers safe.

This brochure is a guide for day-to-day operators as well as fleet owners of this equipment who are hoping to save time, money, to dream big — and build bigger.

Building on decades of quality engineering, Hitachi Construction Machinery Americas presents the latest in its ZAXIS-7 lineup, the ZW180-7 & ZW180PL-7 wheel loaders.





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TASK MASTERS

A productivity powerhouse in either bucket or parallel fork versions, our ZW180-7 & ZW180PL-7 wheel loaders are packed with standard features that prioritize efficiency and operator comfort. Offered with forks to aid equipment yards, logging facilities, and beyond — anywhere the utmost in productivity and operator control is needed.

Integrated tools like Approach Speed Control, Auto Power Up, and Payload Checker* help solve unique challenges faced by wheel loader operators while improving operator efficiency.

Backed up by the extensive Hitachi Construction Machine Americas network, explore how the ZW180-7 & ZW180PL-7 can reduce costs and boost your operations' results.

Improved Design

Accomplish a wide variety of jobs with a powerful platform proven to perform in varied worksites, then extend the machine's capability as-needed with a range of GET (Ground Engaging Tools) attachments.

Intelligent Assists

Approach Speed Control, Auto Power Up function and a new Payload Checker* improve productivity to new levels while reducing operator fatigue.

Reliable & Powerful Engine

Proven Cummins engine, 5-speed transmission, and robust limited-slip differentials with predictable servicing bring power and improved cost control to an operation.

Increased Durability

Critical components are more protected from the environment, including the engine air filter and air conditioner. Standard intelligent, auto-reversing fan helps to prevent filter clogging.

Quality Materials

From non-slip surfaces to durable cab materials, the ZW180-7 & ZW180PL-7 are made to last.



First-Class Cab Comfort

Maximum cab space, visibility of controls, and operator line-of-sight; ROPS and FOPS certified.



Enhanced Productivity

Uptime is everything: lower fuel consumption and higher quality components mean less downtime and lower servicing costs.



Service & Maintenance

With ConSite Air, and field-tested maintenance routines, ZW220-7 is a workhorse with predictable service intervals.

ZW180-7



Bucket Capacity : 3.4 - 4.2 yd³ (2.6 - 3.2 m³)
Engine Output : 173 HP (129 kW)
Operating Weight : 33,245 - 33,797 lbs (15,080 - 15,330 kg)

ZW180PL-7



Bucket Capacity : 3.0 - 3.4 yd³ (2.3 - 2.6 m³)
Engine Output : 173 HP (129 kW)
Operating Weight : 34,259 lbs (15,540 kg)

Productive **POWERHOUSE**

Haul and load with the confidence on an overbuilt foundation, proven mechanicals, and modern operator assists. Our 173 horsepower Cummins engine and powerful hydraulics give up to 25,650 lbf (114 kN) in Break out Force with the standard bolt-on cutting edge bucket without compromising fuel consumption. Our uncompromising commitment to performance sets the powerful loaders apart in these key areas:

Reliable Powertrain

Motivated by a reliable direct injection CUMMINS engine, the ZW180-7 & ZW180PL-7 have the torque to lift, move, haul, and dump materials with ease.

Low Impact Operation

The operator and jobsite comfort is improved with high performance, featuring cab sound levels of LpA 67 dB(A)* and external levels of LwA 104 dB(A)**.



Modern Operator Assists

Approach Speed Control sets a specific speed for the wheel loader when nearing a loading point. This allows for fewer pedal operations during loading, for reduced operator fatigue and lower fuel consumption.

Auto Power Up Function

New Auto Power Up functionality increases hill climbing performance of the ZW180-7 & ZW180PL-7 by identifying slopes and increasing power output to prevent engine speed from dropping when travelling uphill.

Full Operator Control

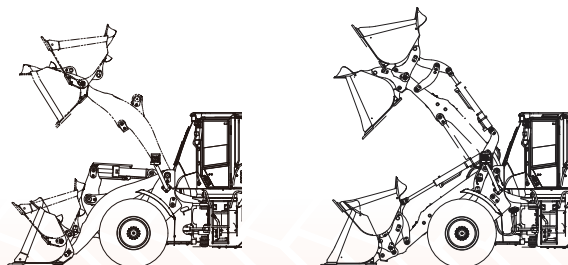
Designed to boost driver confidence and efficiency, the redesigned cab controls place key functions within easy reach for intuitive operation.

Reduced Fatigue

Human-focused systems like Approach Speed Control, Auto Power Up, and Payload Checker, reduce operator strain by automating tasks and providing real-time feedback, especially in challenging environments.

* ISO 6396: 2008

** ISO 6395: 2008 and EU Directive 2000/14/EC





**EFFICIENT
PRODUCTIVITY**

and lower cost per hour

PARALLEL LINK

Wheel Loader



Shift **WORKHORSE**

Efficient and made to multi-task, the ZW180-7 & ZW180PL-7 have what it takes to **accelerate productivity where you need it most**. Used for a wide range of essential jobs, from residential & commercial construction to road & highway infrastructure improvements, and logging operations. Owners and operators alike are upgrading their results with help from these modern wheel loaders.

The ZW180PL-7 offers a **parallel link arm configuration** that keeps attachments parallel with the ground as the loader arms move up or down, giving operators more control while loading or unloading items. For close quarters work, parallel link arms also allow much greater visibility when using forks and other attachments.





“ Having experienced our wheel loaders' evolution over the past 30+ years and nine model generations, I can proudly say that our new ZW-7 loaders **achieve levels of operator comfort and machine productivity, that take the work out of the job!** ”



Mel Wade,
Hitachi Construction Machinery Americas
Wheel Loader Application Manager





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CONFIDENT Controls

Built with all-day comfort in mind and packed with smart features like the standard Payload Checker*, an advanced payload weighing system key to an operator's confidence. An all-new low vibration cab with more space, comfortable operator positioning, and seat-mounted controls. A standard 8" LCD display and standard Bluetooth connectivity (including hands-free calling) ensure connectivity at all times.

- 1 Seat-mounted electric control levers** help to reduce fatigue.
- 2 Multifunction single-lever or dual-lever type control lever** options to suit your preference.
- 3 Integrated console on air-ride seat** gives a greater sense of control.
- 4 USB charging tablet and smartphone holder** helps you stay connected.
- 5 Console mounted sub-monitor controls** provide fast access to main functions.
- 6 Ergonomically designed adjustable armrests** so you can work comfortably.
- 7 Convenient storage space** keeps your workspace tidy and clutter-free.
- 8 Heavy duty, heated air-ride seat** with horizontal suspension.
- 9 Removable cup holder** for cleaning.
- 10 Sure-grip steering wheel** for confident control.
- 11 3.5" color LCD** in the front dashboard is easy to view.
- 12 Spacious ergonomic cab** makes for a more comfortable space.
- 13 Air conditioning controller** ensures a pleasant working environment.
- 14 Bluetooth®** for hands-free calls.
- 15 High-resolution 8" monitor** is easy to use and navigate.
- 16 Panel switch integrated functions** are user-friendly.
- 17 Remote adjustable heated mirrors (optional)** are easy to use.

* ZW180-7 only



SERVICE That Sticks

Protect your investment with proactive support services. Hitachi Construction Machinery Americas distribution network is dedicated to ensuring your productivity with our support team and dealers. Ask about how ConSite Air technology further increases uptime.

ConSite
Consolidated Solution for Construction Sites



NO HASSLE Maintenance

From up-to-the-second remote management with ConSite to the leading Hitachi Construction Machinery Americas Certified Remanufactured Components program, maintenance support is second-to-none. Identify problems before they start and supercharge productivity with our behind-the-scenes data platform that allows for remote fleet diagnostic access.



SAFETY Suite

Our innovative features improve safety around your jobsite. Standard rear view camera and displays, plus a class-leading design with optimal visibility. 270° AERIAL ANGLE camera system (optional) and rear object detection (optional) are advantageous features for confined job sites, smaller work areas, and faster operator acclimatization.

Rear View Monitor

Standard rear view camera with anti-glare in-cab display gives operators a wide field of view behind the machine.

Unmatched Visibility

See and be seen: redesigned cab, bright LED work lights, large reflective strips, and less interior clutter ensure operator line-of-sight in all conditions.

AERIAL ANGLE Cameras

Optional peripheral vision camera system provides a wide 270-degree bird's-eye view of the machine's immediate environment.

Emergency Steering Assist

An emergency steering pump provides supplemental power steering in the unlikely case of a loss of the main hydraulic pressure.

Rear Obstacle Detection System

Optional for the ZW180-7 and ZW180PI-7 wheel loaders, this effective early warning system can significantly improve site safety around moving equipment. Operators receive in-cab visual and audible alarms when near an obstacle.

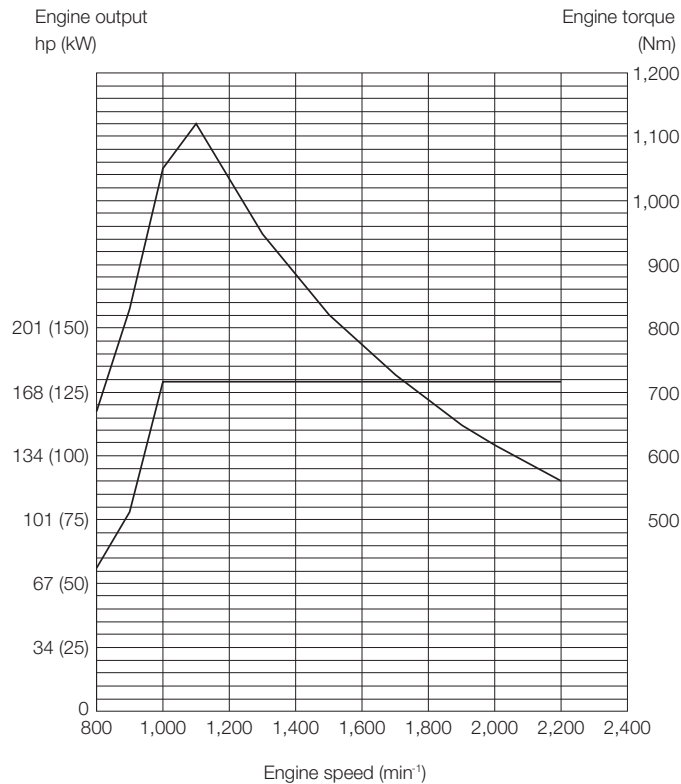




SPECIFICATIONS

ZW180-7 & ZW180PL-7

ENGINE	
Model	CUMMINS B6.7
Type	4 cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DPF+SCR system
No. of cylinders	6
Maximum power	
ECE R120 gross	173 HP (129 kW) at 2,200 min ⁻¹ (rpm)
ISO 9249: 2007 net	168 HP (125 kW) at 2,200 min ⁻¹ (rpm)
Rated power	
ISO 14396: 2002 gross	173 HP (129 kW) at 2,200 min ⁻¹ (rpm)
ISO 9249: 2007 net	168 HP (125 kW) at 2,200 min ⁻¹ (rpm)
Maximum torque	
ISO 9249: 2007 net	815 ft lbf (1,104 Nm) at 1,100 min ⁻¹ (rpm)
gross	827 ft lbf (1,120 Nm) at 1,100 min ⁻¹ (rpm)
Bore and stroke	4.2" x 4.9" (107 mm X 124 mm)
Piston displacement	410.1 cu.in (6.69 L)
Batteries	2 x 12V
Air cleaner	Two element dry type with restriction indicator



POWER TRAIN	
Transmission	Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included.
Torque converter	Three elements, single stage, single phase
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* Forward/Reverse	
1st	3.7/3.9 mph (5.9/6.2 km/h) [3.9/4.1 mph (6.3/6.6 km/h)]
2nd	7.1/7.5 mph (11.5/12.1 km/h) [7.6/8.0 mph (12.2/12.9 km/h)]
3rd	10.9/16.5 mph (17.5/26.5 km/h) [11.5/17.6 mph (18.5/28.3 km/h)]
4th	15.7 mph (25.3 km/h) [16.8 mph (27 km/h)]
5th	24.2 mph (39 km/h) [24.2 mph (39 km/h)]

*With 20.5 R25 (L3) tires
[: Data at Power Mode

AXLE AND FINAL DRIVE	
Drive system	Four-wheel drive system
Front and 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

TIRES	
Tire size	Bridgestone 20.5R25 (L3) VJTZ
Optional	Bridgestone 20.5R25 (L3) XHA2

BRAKES	
Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brakes. Front and rear independent brake circuit
Parking brakes	Spring applied, hydraulically released, dry disc type with external output shaft

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 2.8" x 17.4" (2 x 70 mm x 442 mm)

HYDRAULIC SYSTEM	
Arm and bucket are controlled by multifunction 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 (Serve as steering pump)	
Variable Displacement Axial Plunger Pump	
Maximum flow	59.1 gal (224 L) /min at 2,200 min ⁻¹ (rpm)
Maximum pressure	3,974 psi (27.4 MPa)
Fan pump	
Fixed Displacement Gear Pump	
Maximum flow	14.5 gal (54.8 L) /min at 2,200 min ⁻¹ (rpm)
Maximum pressure	2,640 psi (18.2 MPa)
Hydraulic cylinders	
ZW180-7	
Type	Double acting type
No. x Bore x Stroke	Arm: 2 x 4.9" x 30.1" (2 x 125 mm x 765 mm)
	Bucket: 1 x 5.9" x 19.5" (1 x 150 mm x 495 mm)
Filters	Full-flow 15 micron return filter in reservoir
ZW180PL-7	
Type	Double acting type
No. x Bore x Stroke	Arm: 2 x 4.9" x 30.1" (2 x 125 mm x 765 mm)
	Bucket: 2 x 4.3" x 37.6" (2 x 110 mm x 955 mm)
Filters	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	
ZW180-7	
Lift arm raise	5.3 s
Lift arm lower	3.7 s
Bucket dump	1.1 s
Total	10.1 s
ZW180PL-7	
Lift arm raise	5.3 s
Lift arm lower	3.7 s
Bucket dump	2.3 s
Total	11.3 s

*Data at Power Mode

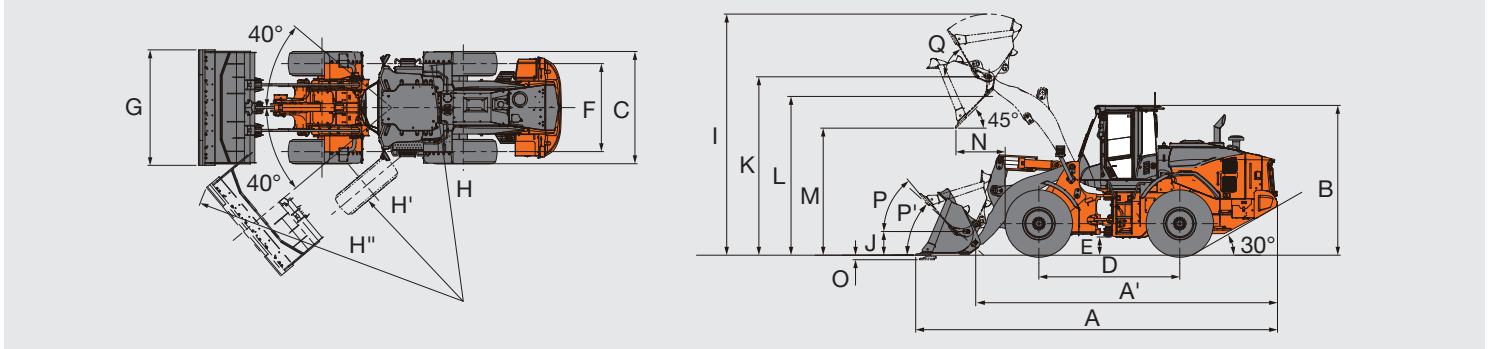
ENVIRONMENT	
Engine Emissions	
EPA Final Tier 4/EU stage V	
Sound level	
Sound level in cabin according to ISO 6396: 2008	67 LpA dB(A)
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC	104 LwA dB(A)

SERVICE REFILL CAPACITIES	
Fuel tank	60.7 gal (230 L)
Engine coolant	6.6 gal (25 L)
Engine oil	6.6 gal (25 L)
Torque converter and transmission	7.9 gal (30 L)
Front axle differential and wheel hubs	8.2 gal (31 L)
Rear axle differential and wheel hubs	9.0 gal (34 L)
Hydraulic oil tank	26.4 gal (100 L)
DEF/AdBlue [®] tank	6.6 gal (25 L)

SPECIFICATIONS

ZW180-7

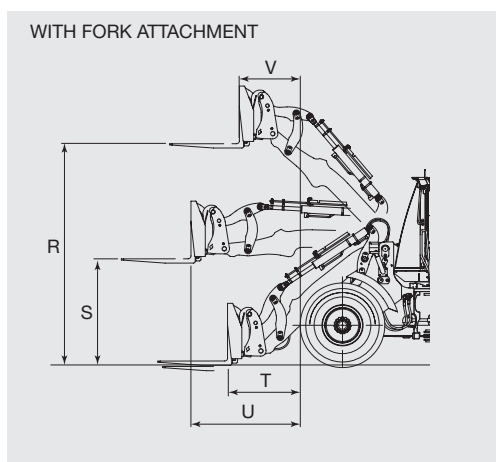
DIMENSIONS AND SPECIFICATIONS ZW180-7



Bucket type			Standard arm			High-lift arm
			General purpose	Material handling	Quick coupler	General purpose
			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge
Bucket capacity	ISO 7546: 1983 Heaped	yd ³ (m ³)	3.7 (2.8)	4.2 (3.2)	3.4 (2.6)	3.7 (2.8)
	ISO 7546: 1983 Struck	yd ³ (m ³)	3.3 (2.5)	3.5 (2.7)	3.0 (2.3)	3.3 (2.5)
A	Overall length	ft-in (mm)	26' 3" (8,005)	26' 4" (8,050)	26' 7" (8,110)	27' 10" (8,500)
A'	Overall length (without bucket)	ft-in (mm)	22' 0" (6,725)			23' 8" (7,225)
B	Overall height up to cab top	ft-in (mm)	10' 10" (3,305)			
C	Width over tires, outside tire	ft-in (mm)	8' 7" (2,620)			
D	Wheel base	ft-in (mm)	10' 2" (3,100)			
E	Ground clearance, minimum	ft-in (mm)	1' 3" (395)			
F	Tread	ft-in (mm)	6' 8" (2,050)			
G	Bucket width	ft-in (mm)	8' 11" (2,730)	8' 11" (2,730)	8' 11" (2,730)	8' 11" (2,730)
H	Turning radius, centerline of outside tire	ft-in (mm)	17' 4" (5,300)			
H'	Turning radius to inside of tires	ft-in (mm)	9' 8" (2,960)	9' 8" (2,960)	9' 8" (2,960)	9' 8" (2,960)
H''	Loader clearance radius, bucket in carry position	ft-in (mm)	20' 4" (6,210)	20' 5" (6,225)	20' 5" (6,240)	21' 0" (6,420)
I	Overall operating height, bucket full raise	ft-in (mm)	17' 3" (5,265)	17' 5" (5,320)	17' 5" (5,315)	18' 7" (5,670)
J	Carry height of bucket pin, at carry position	ft-in (mm)	1' 8" (520)	1' 8" (520)	1' 8" (520)	1' 8" (520)
K	Height to bucket hinge pin, fully raised	ft-in (mm)	12' 10" (3,920)	12' 10" (3,920)	12' 10" (3,920)	14' 2" (4,330)
L	Lift arm clearance at max lift	ft-in (mm)	11' 11" (3,640)	11' 11" (3,640)	11' 11" (3,640)	13' 3" (4,050)
M	Dumping clearance 45°, full height	ft-in (mm)	9' 0" (2,765)	8' 11" (2,730)	8' 9" (2,685)	10' 4" (3,170)
N	Reach, 45° dump, full height	ft-in (mm)	3' 7" (1,115)	3' 9" (1,150)	3' 11" (1,195)	4' 1" (1,265)
O	Digging depth, horizontal digging angle	in (mm)	3.9 (100)	3.9 (100)	3.9 (100)	6.9 (175)
P	Max. roll back at carry position	deg	50			
P'	Max. roll back at ground level	deg	44			45
Q	Roll back angle at full height	deg	60			53

Bucket type			Standard arm			High-lift arm
			General purpose	Material Handling	Quick Coupler	General purpose
			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on cutting edge
Static tipping load ISO 14397-1: 2007 (Section 1-5) *	Straight	lb (kg)	26,918 (12,210)	26,786 (12,150)	24,846 (11,270)	21,252 (9,640)
	Full turn	lb (kg)	23,236 (10,540)	23,104 (10,480)	21,385 (9,700)	18,232 (8,270)
Breakout force		kN	114	109	104	105
		lbf (kgf)	25,650 (11,630)	24,525 (11,150)	23,400 (10,580)	23,625 (10,680)
Operating weight *		lb (kg)	33,245 (15,080)	33,400 (15,150)	33,797 (15,330)	33,686 (15,280)

* 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.



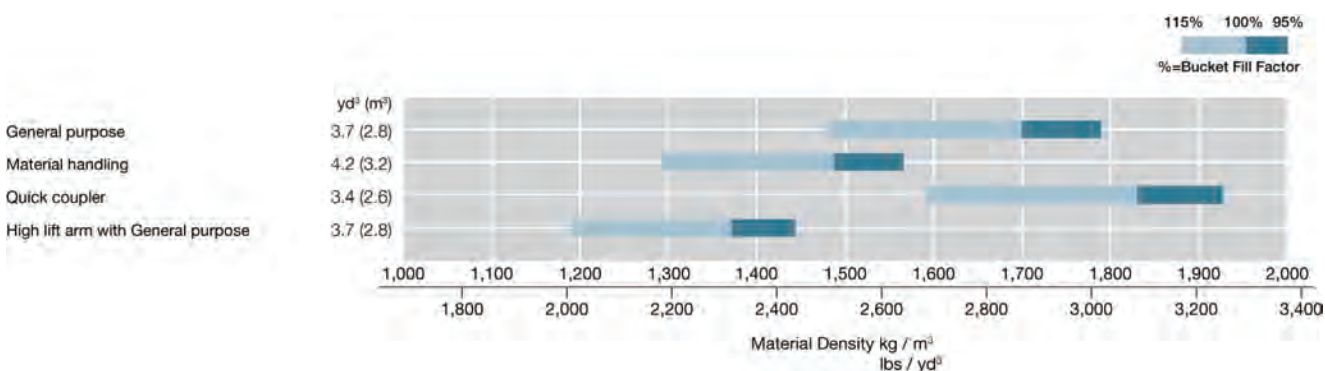
Attachment type			Fork
R	Max. stacking height	ft-in (mm)	12' 3" (3,750)
S	Height of fork at maximum reach	ft-in (mm)	5' 9" (1,765)
T	Reach at ground level	ft-in (mm)	7' 9" (2,365)
U	Max. reach	ft-in (mm)	9' 8" (2,960)
V	Reach at max. stacking height	ft-in (mm)	6' 10" (2,090)
Static tipping load	Straight	lb (kg)	18,518 (8,400)
	Full 40° turn	lb (kg)	16,027 (7,270)
Max. payload per EN 474-3, 80 %		lb (kg)	12,808 (5,810)
Max. payload per EN 474-3, 60 %		lb (kg)	9,612 (4,360)
Fork tine length		in (mm)	48" (1,220)
Operating weight *		lb (kg)	32,672 (14,820)

* 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 CHANGE

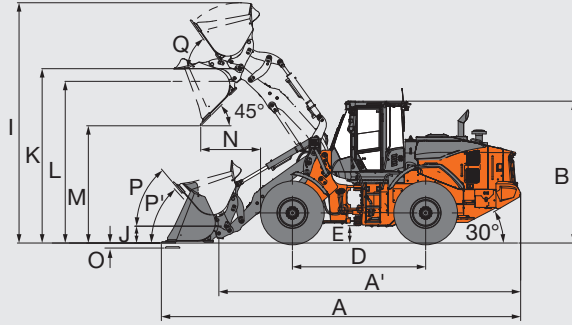
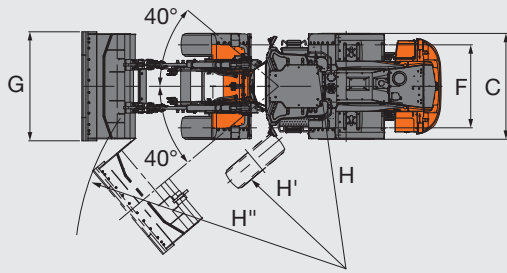
Option item		Operating weight lb (kg)	Tipping load lb (kg)		Overall width in (mm) (outside tire)	Overall height in (mm)	Overall length in (mm)
			Straight	Full turn			
Tire	20.5R25 (L3) VJT	±0	±0	±0	±0	±0	±0
	20.5R25 (L3) XHA2	+22 (+10)	+66 (+30)	-66 (-30)	+0.2 (+5)	+0.2 (+5)	±0
Belly guard		+364 (+165)	+265 (+120)	+243 (+110)	-	-	-

BUCKET SELECTION GUIDE

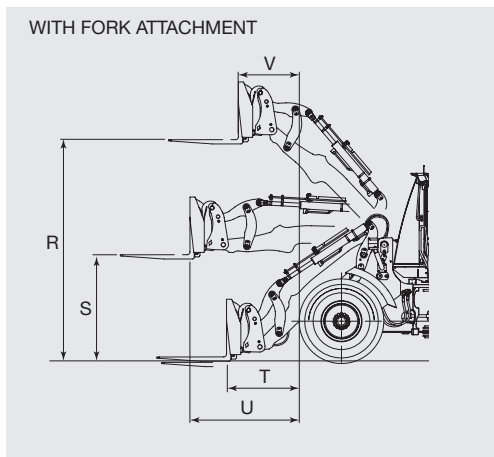


SPECIFICATIONS

DIMENSIONS AND SPECIFICATIONS ZW180PL-7



Bucket type		Quick coupler	
		Bolt-on cutting edge	
Bucket capacity	ISO 7546: 1983 Heaped	yd ³ (m ³)	3.4 (2.6)
	ISO 7546: 1983 Struck	yd ³ (m ³)	3.0 (2.3)
A	Overall length	ft-in (mm)	27' 3" (8,310)
A'	Overall length (without bucket)	ft-in (mm)	23' 0" (7,020)
B	Overall height, up to cab top	ft-in (mm)	10' 10" (3,305)
C	Width over tires, outside tire	ft-in (mm)	8' 7" (2,620)
D	Wheel base	ft-in (mm)	10' 2" (3,100)
E	Ground clearance, minimum	ft-in (mm)	1' 3" (395)
F	Tread	ft-in (mm)	6' 8" (2,050)
G	Bucket width	ft-in (mm)	8' 11" (2,730)
H	Turning radius, centerline of outside tire	ft-in (mm)	17' 4" (5,300)
H'	Turning radius to inside of tires	ft-in (mm)	9' 8" (2,960)
H''	Loader clearance radius, bucket in carry position	ft-in (mm)	20' 7" (6,280)
I	Overall operating height, bucket full raise	ft-in (mm)	18' 2" (5,560)
J	Carry height of bucket pin, at carry position	ft-in (mm)	1' 8" (520)
K	Height to bucket hinge pin, fully raised	ft-in (mm)	13' 3" (4,045)
L	Lift arm clearance at max lift	ft-in (mm)	12' 1" (3,690)
M	Dumping clearance 45°, full height	ft-in (mm)	8' 11" (2,720)
N	Reach, 45° dump, full height	ft-in (mm)	4' 8" (1,440)
O	Digging depth, horizontal digging angle	in (mm)	3,7 (95)
P	Max. roll back at carry position	deg	50
P'	Max. roll back at ground level	deg	47
Q	Roll back angle at full height	deg	55
Static tipping load ISO 14397-1: 2007 (Section 1-5) *	Straight	lb (kg)	22,597 (10,250)
	Full turn	lb (kg)	19,467 (8,830)
Breakout force		kN	110
		lbf (kgf)	24,750 (11,190)
Operating weight * (With ROPS / FOPS Cab)		lb (kg)	34,259 (15,540)



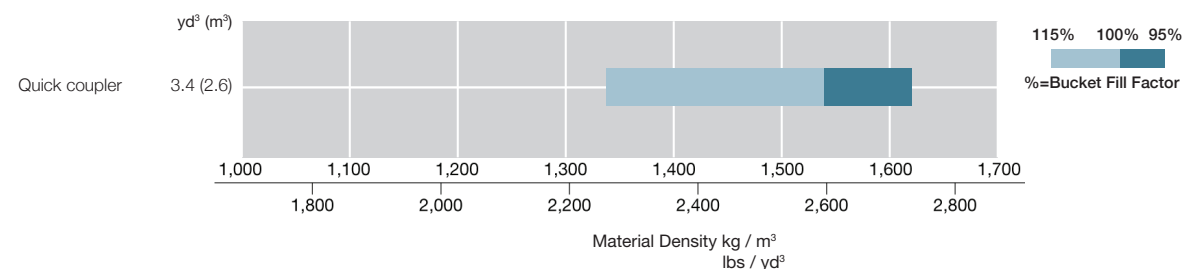
Attachment type		Fork	
R	Max. stacking height	ft-in (mm)	12' 9" (3,900)
S	Height of fork at maximum reach	ft-in (mm)	6' 2" (1,890)
T	Reach at ground level	ft-in (mm)	4' 4" (1,340)
U	Max. reach	ft-in (mm)	6' 6" (2,000)
V	Reach at max. stacking height	ft-in (mm)	3' 9" (1,150)
Static tipping load	Straight	lb (kg)	18,298 (8,300)
	Full 40° turn	lb (kg)	15,851 (7,190)
Max. payload per EN 474-3, 80 %		lb (kg)	12,676 (5,750)
Max. payload per EN 474-3, 60 %		lb (kg)	9,502 (4,310)
Fork tine length		in (mm)	48' (1,220)
Operating weight *		lb (kg)	33,135 (15,030)

* 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 CHANGE

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	20.5R25 (L3) VJTZ	±0	±0	±0	±0	±0	±0
	20.5R25 (L3) XHA2	-22 (-10)	-44 (-20)	-44 (-20)	+0.2 (+5)	+0.2 (+5)	±0
Belly guard		+364 (+165)	+265 (+120)	+243 (+110)	-	-	-

BUCKET SELECTION GUIDE



EQUIPMENT

ZW180-7 & ZW180PL-7

●: Standard equipment ○: Optional equipment

ENGINE	ZW180-7	ZW180PL-7
Aftertreatment device	●	●
Aftertreatment manual regeneration inhibit switch	●	●
Aftertreatment manual regeneration switch	●	●
Air filter double elements	●	●
Air intake		
Pre-cleaner (sy-clone type)	●	●
Anti-clogging radiator (wide fin pitch)	●	●
Automatic reversible cooling fan with heat sensing	●	●
Cartridge-type engine oil filter	●	●
Cartridge-type fuel main filter	●	●
Cartridge-type fuel pre-filter (with water separator function)	●	●
Coolant reservoir sight gauge	●	●
DEF/AdBlue® tank with magnet adapter	●	●
Engine auto shut-down control system	●	●
Engine oil remote drain	●	●
Fan guard	●	●

BRAKE SYSTEM	ZW180-7	ZW180PL-7
Front and rear independent brake circuit	●	●
Inboard mounted fully hydraulic 4 wheel wet disc	●	●
Spring-applied/Hydraulic-released parking brake	●	●

HYDRAULIC SYSTEM	ZW180-7	ZW180PL-7
Bucket auto leveler (automatic return to dig control)	●	●
Control lever lock switch	●	●
Dual lift arm auto leveler and kickout system	●	●
Electro-hydraulic control levers		
Multifunction single-lever with Proportional switch for 3rd function	●	●
Dual levers with additional lever for 3rd function	○	○
4 spools control valve		
Multifunction single-lever with proportional switches (2) for 3rd and 4th function	●	-
Dual levers with additional lever for 3rd function	○	-
Hydraulic filters	●	●
Quick coupler plumbing and activation switch	●	●
Hydraulic level sight gauge	●	●
Ride control system (OFF-AUTO type)	●	●
Dig mode setting	●	●

CAB	ZW180-7	ZW180PL-7
Adjustable steering column with POP-UP	●	●
Air conditioner/heater/pressurizer with climate control		
Pre-cleaner for air conditioner with fresh and recirculation filters	○	○
with double intake filter	●	●
Bluetooth® integrated FM/AM+radio, hands-free calling	●	●
Camera and 8" LCD monitor		
AERIAL ANGLE (Bird's Eye 270° view)	○	○
Rear view camera and monitor	●	●
Coat hook	●	●
Evacuation hammer	●	●
Front/rear defroster	●	●
Glove compartment	●	●
Hydraulic steering system with sure-grip wheel and knob	●	●
LED cab light (Off, On, & Auto)	●	●
Payload checker with tip-off function	●	-
Rear obstacle detection system	○	○
Rear view mirrors		
Inside (1)	●	●
Outside (2)	●	●
Outside (2) remote adjustable heated mirrors	○	○
Retractable seat belt, 3.0 in (76 mm)	●	●
ROPS (ISO 3471: 2008), FOPS (ISO 3449: 2008 LEVEL II): multi-plane isolation mounted for noise, vibration reduction	●	●
Rubber floor mat with easy cab clean out	●	●
Seat		
Fully adjustable, fabric, air ride suspension, heated, heavy duty seat with headrest	●	●
Seat belt reminder	●	●
Stereo speakers (2)	●	●
Storage		
Cup holder	●	●
Document holder	●	●
Hot and cool box	●	●
Seatback pocket	●	●
Smartphone and Tablet device holder	●	●
Sun shade film on front windshield	○	○
Sunscreen roller type	●	●
Textured steering wheel with spinner knob	●	●
Tinted safety glass		
Front windshield: laminated	●	●
Sides and rear: tempered	●	●
USB charging port	●	●
Windshield washer front and rear	●	●
Windshield wiper front with intermittent, low, high, and Quick Wipe feature	●	●
Windshield wiper rear	●	●
8" sub monitor	●	●

●: Standard equipment ○: Optional equipment

MONITORING SYSTEM	ZW180-7	ZW180PL-7
Gauge: coolant temperature, fuel level, transmission oil temperature	●	●
Indicator lights: clearance lights, control lever lock, low fuel level, high beam, parking brake, engine preheat, turn and hazard signals, work lights, fan reverse indicator, seat belt indicator	●	●
Indicator on multifunction monitor: F-N-R shift position, gear shift position, clock, DEF alarm indicator, DEF level gauge, ECO indicator, forward/reverse selector switch indicator, hold display, hour meter, odometer, battery volt, speedometer, tachometer, transmission auto-shifting indicator, Warning lights: air filter restriction, brake oil low pressure, communication system error, discharge warning, engine oil low pressure, engine warning, hydraulic oil level, low steering oil pressure, overheat, transmission warning	●	●
Indicator on sub monitor: payload checker (excluding PL), dual auto-leveler indicator rear obstacle detection and warning system (optional)	●	●
38 languages selection	●	●

ELECTRICAL SYSTEM	ZW180-7	ZW180PL-7
Alternator DC 24V-95A (2.28 kW)	●	●
Backup alarm	●	●
Battery disconnect switch	●	●
Large capacity batteries (2), 12V, 930 CCA	●	●
Power outlet 12V and 24V	●	●

LIGHTS	ZW180-7	ZW180PL-7
Clearance lights	●	●
LED brake and tail lights	●	●
LED headlights	●	●
Rotating lamp	○	○
Turn signals with hazard switch	●	●
Work lights		
Front (4) , rear on cab (2) and rear LED working lights (2)	●	●
Front (4) , rear on cab (2) and rear LED working lights (2) (high brightness)	○	○

TIRES	ZW180-7	ZW180PL-7
Bridgestone 20.5R25 (L3) VJTZ	●	●
Bridgestone 20.5R25 (L3) XHA2	○	○

MISCELLANEOUS	ZW180-7	ZW180PL-7
Articulation lock bar	●	●
Belly guard (bolt on type) (front/rear)	○	○
Bucket cylinder guard	○	○
Cab top rails on front and rear (hand rails)	●	●
Counterweight with towing pin	●	●
Drawbar with locking pin	●	●
Engine block heater	●	●
Fenders		
20.5 R25 Tires (front and full covered rear fenders with mud flaps)	○	○
Exclusive Global e-Service telematics	●	●
Lifting lugs/tie-downs fixtures	●	●
Lift arm		
High lift arm	○	-
Parallel lift arm	-	●
Standard lift arm	●	-
Vandal Protection		
Lockable battery box	●	●
Lockable cab door	●	●
Lockable engine cover	●	●
Lockable fuel refilling cap	●	●
Quick coupler	○	●
Radiator dust protection screen	○	○
Secondary steering		
Hitachi Construction Machinery original	●	●
ISO 5010 : 2019 compliant	○*	○*
Storage box	●	●

POWER TRAIN	ZW180-7	ZW180PL-7
Approach Speed Control feature (travel speed limiter)	●	●
Automatic transmission with load sensing system	●	●
Clutch cut (declutch) switch	●	●
Differential		
LSD (limited slip differential, front and rear)	●	●
Maximum travel speed limiter (12.4 mph (20 km/h)) - dealer activated	○	○
2 settings DSS (down shift switch)	●	●
Forward/reverse lever	●	●
Maximum gear limited switch	●	●
Power mode switch	●	●
Quick power switch	●	●
Travel mode selector (auto1-auto2)	●	●

* Standard where mandated.

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