

Zaxis 180W/210W

HITACHI

Zaxis 180W/210W

Rated Engine

Zaxis 180W: 121 hp (90.2 kW)
Zaxis 210W: 147 hp (110 kW)

Operating Weight

Zaxis 180W: 40,785–42,549 lb
(18 500–19 300 kg)
Zaxis 210W: 44,800–46,562 lb
(20 300–21 120 kg)

Bucket Capacity

Zaxis 180W: 0.59–1.6 yd³ (0.45–1.22 m³)
Zaxis 210W: 0.59–1.6 yd³ (0.45–1.22 m³)



Smoother and Faster

**Advanced Technology to Reduce
Costs While Working Faster**

Highly Stable

Hitachi wheeled excavators have big lifting capacities and are extremely stable. Outriggers and a blade are available for even more stability

Safety, Comfort, and Convenience

The operator's compartment is designed for both comfort and operating efficiency.

Rigid Undercarriage

A reshaped box design with X-beams helps disperse stress and boosts the overall rigidity of the entire undercarriage.

Multi-function Operations

The Zaxis 180W and 210W continue the Hitachi tradition of smooth, multi-functioning excavators. Executing combined operations such as simultaneous swinging and traveling are easy with Zaxis.

Wheeled excavators are gaining popularity with municipalities, subdivision developers, and contractors because of the ability to move quickly from job to job while minimizing damage to streets and curbs.

High-Power Engine

The Zaxis 180W is equipped with the Isuzu 4BG1XABFA engine which generates 121 hp @ 2,200 rpm (90.2 kW/min⁻¹).

The Zaxis 210W is equipped with the Isuzu 6BG1XABFA engine which generates 147 hp @ 2,100 rpm (110 kW/min⁻¹).

Both machines meet all Tier II non-road emissions regulations.

Machine Information Center

The Machine Information Center captures and stores vital machine performance data such as engine speeds, hydraulic temperatures, pump pressures, alarms and faults, hours of operation, and more. The data is downloadable through a Palm Pilot™ and is transferable to your PC. Special PC software interprets the data and generates valuable machine performance reports and graphs highlighting machine utilization, performance history, and more to help users improve productivity and profit.



THE ZAXIS ADVANTAGE

Higher Productivity

Zaxis wheeled excavators offer the same strong, fast, and smooth operations as Zaxis series crawler excavators. Performance figures of the 180W are slightly greater than the Zaxis 160LC crawler excavator, while the Zaxis 210W specs are comparable to the Zaxis 200LC but with travel speeds up to 15.5 mph!

Auxiliary Hydraulic Kits

To increase the versatility of the machine, two factory-designed auxiliary hydraulic kits are available for dealer installation. The first is for lower pressure/lower flow applications like bucket-tilt or bucket-swinger attachments. The second — a high-pressure/high-flow kit for hammers and breakers.



Choose between dual tires with spacer ring to keep out debris or single tires.

The Choice Is Yours

Choose between a one-piece monoboom with long arm or a two-piece variable-geometry boom with long arm. Variable geometry increases visibility to the right and allows more versatility in lifting objects. You can also choose between a front blade with two rear outriggers or two front and two rear outriggers.

Backfill Blade

The optional backfill blade's parallelogram design provides more vertical movement.



Zaxis wheeled excavators feature the same powerful yet silky smooth multi-function operations as tracked excavators.



The undercarriage is a welded stress-relieved structure. The drive system has a two-gear power-shift transmission and variable-displacement, axial-piston-type travel motor. The front axle can be locked hydraulically in any position.

Increased rigid reinforced D-type frame for heavier front attachments and counterweight.

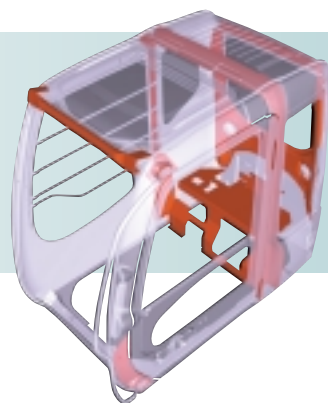
THE ZAXIS ADVANTAGE

Cab Comfort

The easy-to-read monitor panel and switches are located near the operator to minimize fatigue and enhance operator control. The auto-control air conditioner allows you to set a specific temperature, then forget it. Bi-level air ducts are positioned throughout the cab to promote even airflow. The steering wheel is adjustable to suit the operator's size.

Cab Safety

The CRES (Center pillar Reinforced Structure) rigid cab is designed with safety in mind. The closed-section pillar and reinforcing members at central areas withstand vertical and horizontal external forces.



Cab design both guards the operator and contributes to efficient operation through its comfortable, ergonomic layout and its CRES design.

The D-type frame and rigid cab bed work together with the silicone-filled rubber cushion to reduce noise and vibration for less operator fatigue.



The Zaxis 180W and 210W are available in both one-piece and monoblock boom configurations.



A low-noise muffler and the Isuzu Tier II emissions control engine ensure a quieter, more environmentally friendly excavator.



The engine oil filter and water separator are positioned for easy access from the ground.



Switches and other essential controls are located near the operator, enhancing control and minimizing fatigue.

Work Modes

Zaxis wheeled excavators use one work mode. This allows the operator to work a variety of applications from trenching to fine grading without having to change the work mode.

Lower Operating Costs

Reduced fuel consumption; a strengthened mainframe, front attachment, and undercarriage; longer lubrication intervals; and 4,000-hour hydraulic oil, 500-hour engine oil, and 1,000-hour hydraulic oil filters all work together to extend the durability of Zaxis while reducing running and repair costs.



SPEC SUMMARY ZAXIS 180W

ENGINE

Type	water-cooled, direct-injected Isuzu 4BG1XABFA with turbocharger and intercooler; meets EPA Tier II non-road emissions regulations
Rated power	12 SAE net hp (90.2 kW) @ 2,200 rpm
Cylinders	4
Displacement	264 cu. in. (4.329 L)
Maximum net torque	330 lb.-ft. (447 Nm) @ 1,800 rpm
Fuel consumption, typical	3 to 5 gal./hr. (11.4 to 18.9 L/h)
Cooling fan	suction-type drive
Electrical system	24-volt with 50-amp alternator
Batteries (two 12-volt)	reserve capacity: 180 min.
Off-level capacity	100% (45 deg.)

HYDRAULIC SYSTEM

Main pumps	two variable-displacement axial-piston
Minimum flow	2 x 20 gpm (2 x 75 L/min.)
Maximum flow	2 x 52.8 gpm (2 x 200 L/min.)
Pilot pump	two gear (one for pilot / one for steering and brakes)
Maximum flow	2 x 4.4 gpm (2 x 16.8 L/min.)
Pressure setting	538 psi (3709 kPa)
System operating pressure	
Implement circuits	4,980 psi (34 336 kPa)
Travel circuits	4,980 psi (34 336 kPa)
Swing circuits	4,830 psi (33 301 kPa)
Oil filtration	one 10-micron full-flow return filter with by-pass / two pilot oil filters

CYLINDERS

	Bore	Rod diameter	stroke
Boom (2)			
Monoblock boom	4.72 in. (120 mm)	3.35 in. (85 mm)	3 ft. 5 in. (1050 mm)
Two-piece boom	4.72 in. (120 mm)	3.35 in. (85 mm)	3 ft. 3 in. (980 mm)
Positioning (2)			
Two-piece boom	6.69 in. (170 mm)	4.33 in. (110 mm)	2 ft. 0 in. (600 mm)
Arm (1)	4.92 in. (125 mm)	3.54 in. (90 mm)	4 ft. 6 in. (1371 mm)
Bucket (1)	4.13 in. (105 mm)	2.95 in. (75 mm)	3 ft. 5 in. (1050 mm)

SWING MECHANISM

Swing speed	0-12.8 rpm
Swing torque	29,800 lb.-ft. (40 500 Nm)

UNDERCARRIAGE

Travel-speed ranges	Forward and reverse
Creeper	0-1.62 mph (0-2.6 km/h)
Low	0-4.5 mph (0-7.2 km/h)
High	0-18.6 mph (0-30.0 km/h)
Gradeability	64% (33 deg.)
Minimum turning radius	21 ft. 6 in. (6550 mm)

FRONT AXLE

All-wheel drive; front axle can be locked hydraulically in any position
Oscillation

BRAKES

Maintenance-free wet-disc brakes on front and rear axles standard; fully hydraulic service brake system

CAPACITIES (U.S.)

Fuel tank	74 gal. (280 L)
Cooling system	5 gal. (19.2 L)
Engine lubrication, including filter	4.2 gal. (15.8 L)
Hydraulic tank	26.4 gal. (100 L)
Hydraulic system	71.3 gal. (270 L)
Pump transmission	1 qt. (1 L)
Transmission	3 qt. (3.2 L)
Axles	
Front	2.2 gal. (8.5 L)
Rear	2.9 gal. (11 L)
Front and rear hubs	2 x 2 qt. (2 x 2 L)
Swing drive	1.6 gal. (6.2 L)

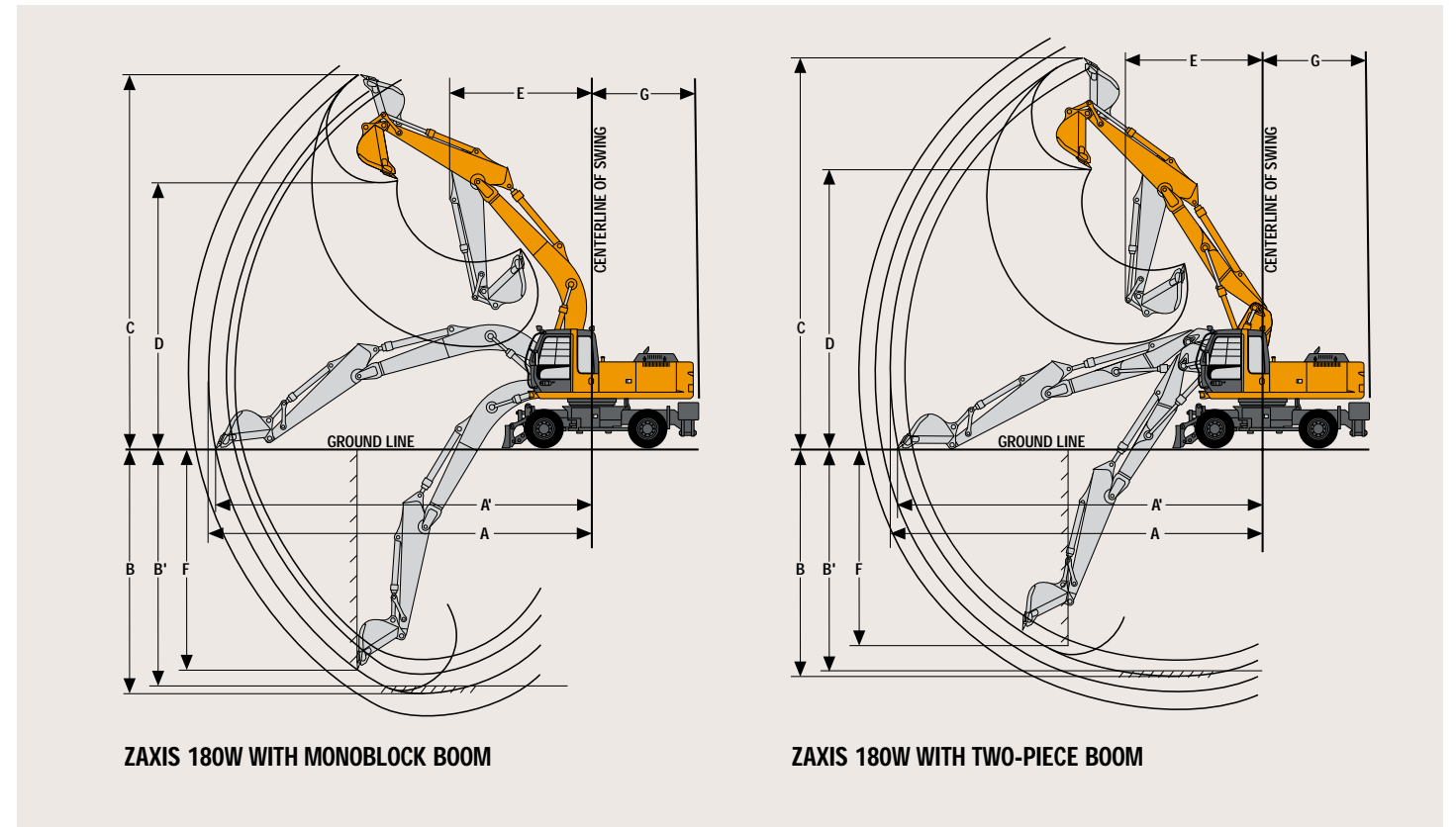
SPEC SUMMARY ZAXIS 180W

SAE OPERATING WEIGHTS

With 0.92-cu.-yd. (0.7 m ³), 35-in. (900 mm), 1,345-lb. (610 kg) general-purpose bucket; 8-ft. 10-in. (2.7 m) arm; standard gauge; 8,929-lb. (4050 kg) counterweight; full fuel tank; and 175-lb. (79 kg) operator	<i>Monoblock boom</i>	<i>Two-piece boom</i>
Front and rear outrigger	41,447 lb. (18 800 kg)	42,549 lb. (19 300 kg)
Front blade and rear outrigger	40,785 lb. (18 500 kg)	41,887 lb. (19 000 kg)

OPERATING INFORMATION

	<i>Monoblock boom</i>	<i>Two-piece boom</i>
Arm force with 35-in. (900 mm) general-purpose bucket and 8-ft. 10-in. (2.7 m) Arm	18,700 lb. (83 kN)	18,700 lb. (83 kN)
Bucket digging force with 42-in. (1065 mm) general-purpose bucket	22,930 lb. (102 kN)	18,700 lb. (102 kN)
Lifting capacity over front @ ground level		
20-ft. (6.1 m) reach	13,398 lb. (6077 kg)	12,215 lb. (5540 kg)
A Maximum reach	31 ft. 2.8 in. (9520 mm)	30 ft. 3.8 in. (9240 mm)
A' Maximum reach @ ground level	30 ft. 7.7 in. (9340 mm)	29 ft. 8.3 in. (9050 mm)
B Maximum digging depth	19 ft. 0 in. (5790 mm)	19 ft. 3.5 in. (5880 mm)
B' Maximum digging depth @ 8-ft. (2.44 m) flat bottom	18 ft. 4.9 in. (5610 mm)	19 ft. 0 in. (5790 mm)
C Maximum cutting height	30 ft. 5.0 in. (9270 mm)	30 ft. 4.2 in. (9250 mm)
D Maximum dumping height	21 ft. 3.5 in. (6490 mm)	21 ft. 0.8 in. (6420 mm)
E Minimum swing radius	11 ft. 3.0 in. (3430 mm)	10 ft. 4.4 in. (3160 mm)
F Maximum vertical wall	17 ft. 1.1 in. (5210 mm)	16 ft. 4.9 in. (5000 mm)
G Tail swing radius	11 ft. 3 in. (3430 mm)	11 ft. 3 in. (3430 mm)



ZAXIS 180W WITH MONOBLOCK BOOM

ZAXIS 180W WITH TWO-PIECE BOOM

DIMENSIONS ZAXIS 180W

With standard gauge	Front and rear outrigger	Front blade and rear outrigger
A Overall length (with monoblock boom and 8-ft. 10-in. [2.7 m] arm)*	30 ft. 8.9 in. (9370 mm)	30 ft. 8.9 in. (9370 mm)
A' Overall length (with two-piece boom and 8-ft. 10-in. [2.7 m] arm)*	30 ft. 2.6 in. (9210 mm)	30 ft. 2.6 in. (9210 mm)
B Overall height of boom (with monoblock boom and 8-ft. 10-in. [2.7 m] arm)*	10 ft. 2.0 in. (3100 mm) [†]	10 ft. 2.0 in. (3100 mm) [†]
B' Overall height of boom (with two-piece boom and 8-ft. 10-in. [2.7 m] arm)*	11 ft. 6.6 in. (3520 mm)	11 ft. 6.6 in. (3520 mm)
C Rear-end swing radius	8 ft. 0.1 in. (2440 mm)	8 ft. 0.1 in. (2440 mm)
D Engine cover height	7 ft. 10.5 in. (2400 mm)	7 ft. 10.5 in. (2400 mm)
E Counterweight clearance	4 ft. 2 in. (1270 mm)	4 ft. 2 in. (1270 mm)
F Overall width of upperstructure	8 ft. 1.0 in. (2465 mm)	8 ft. 1.0 in. (2465 mm)
G Overall height of cab	10 ft. 1.3 in. (3080 mm)	10 ft. 1.3 in. (3080 mm)
H Overall width of tires**	8 ft. 3.6 in. (2530 mm)	8 ft. 3.6 in. (2530 mm)
J Minimum ground clearance	1 ft. 2.2 in. (360 mm)	1 ft. 2.2 in. (360 mm)
K Wheelbase	8 ft. 8.3 in. (2650 mm)	8 ft. 8.3 in. (2650 mm)
L Swing center to rear axle	3 ft. 7.3 in. (1100 mm)	3 ft. 7.3 in. (1100 mm)
M Front overhang	4 ft. 6.3 in. (1380 mm)	4 ft. 5.5 in. (1360 mm)
N Rear overhang	3 ft. 6.9 in. (1090 mm)	3 ft. 6.9 in. (1090 mm)
O Maximum blade lower	N/A	8.66 in. (220 mm)
P Overall height of blade	N/A	1 ft. 11 in. (590 mm)
Q Maximum blade raise	N/A	1 ft. 2.6 in. (370 mm)
R Overall width of blade***	N/A	8 ft. 4 in. (2530 mm)
S Overall width with outrigger retracted	8 ft. 1 in. (2470 mm)	8 ft. 1 in. (2470 mm)
T Overall width with outrigger extended	12 ft. 2 in. (3700 mm)	12 ft. 2 in. (3700 mm)
V Overall height of boom (traveling, with 8-ft. 10-in. [2.7 m] arm)	12 ft. 6 in. (3810 mm)	12 ft. 6 in. (3810 mm)
W Front overhang (traveling, with 8-ft. 10-in. [2.7 m] arm)	17 ft. 5.1 in. (5310 mm)	17 ft. 5.1 in. (5310 mm)

*Transportation dimension (without or with blade).

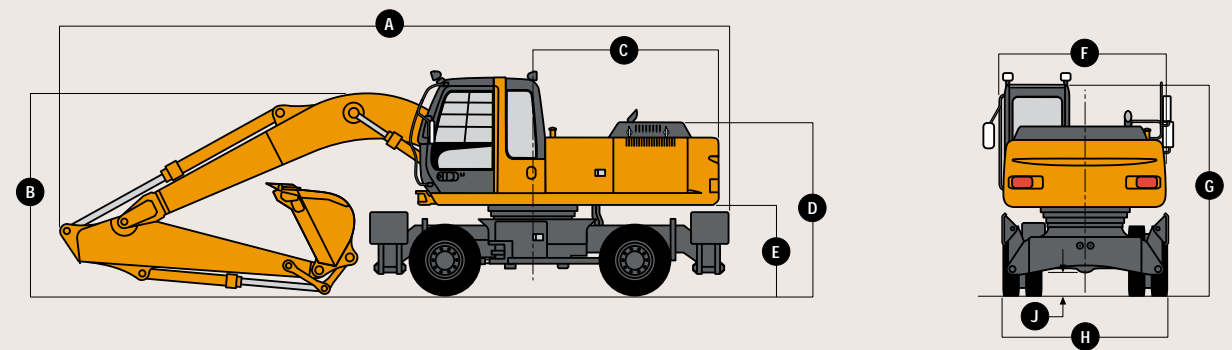
**Transportation dimension (without blade).

***Transportation dimension (with blade).

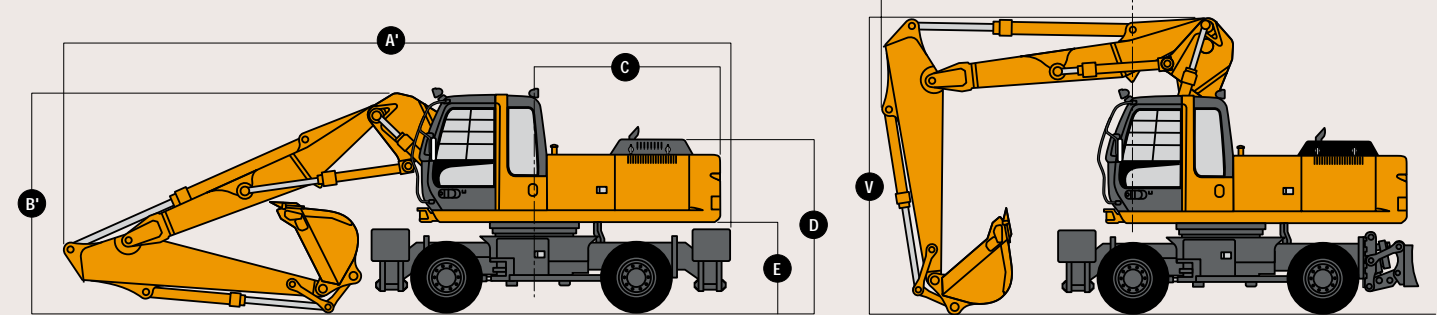
[†]Cab height.

DIMENSIONS ZAXIS 180W

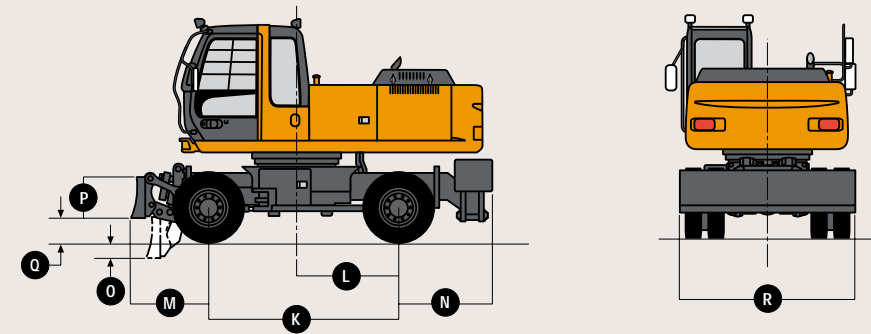
ZAXIS 180W WITH MONOBLOCK BOOM



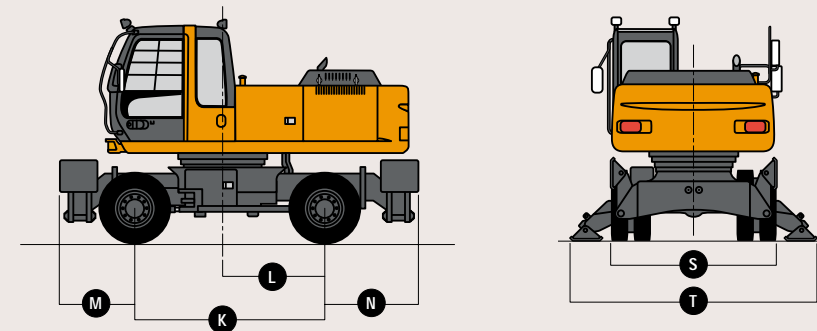
ZAXIS 180W WITH TWO-PIECE BOOM



ZAXIS 180W WITH FRONT BLADE AND REAR OUTRIGGER



ZAXIS 180W WITH FRONT AND REAR OUTRIGGER



LIFTING CAPACITIES ZAXIS 180W

Boldface italic type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in lb. (kg). Ratings at bucket lift hook; machine equipped with 0.92-cu.-yd. (0.7 m³), 35-in. (900 mm) wide, 1,345-lb. (610 kg) bucket; 8-ft. 10-in. (2.7 m) arm; and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are based on SAE J11097.

Load Point Height	10 ft. (3.05 m)		15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.15 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With monoblock boom and rear outriggers and front blade down</i>										
20 ft. (6.10 m)					8,027 (3641)	8,027 (3641)				
15 ft. (4.57 m)					9,541 (4328)	9,541 (4328)	6,868 (3115)	6,868 (3115)		
10 ft. (3.05 m)			14,814 (6720)	14,814 (6720)	11,295 (5123)	9,941 (4509)	9,452 (4287)	6,775 (3073)		
5 ft. (1.52 m)			17,898 (8118)	14,799 (6713)	12,686 (5754)	9,406 (4266)	10,055 (4561)	6,528 (2961)		
Ground Line			18,748 (8504)	14,135 (6412)	13,398 (6076)	9,003 (4084)	10,278 (4662)	6,320 (2867)		
-5 ft. (-1.52 m)	14,190 (6436)	14,190 (6436)	17,594 (7981)	13,965 (6334)	13,001 (5897)	8,814 (3998)	9,703 (4401)	6,223 (2823)		
-10 ft. (-3.05 m)	18,476 (8381)	18,476 (8381)	14,866 (6743)	14,076 (6385)	11,159 (5062)	8,843 (4011)				
-15 ft. (-4.57 m)			9,886 (4484)	9,886 (4484)						

<i>With monoblock boom and four outriggers down</i>										
20 ft. (6.10 m)					8,027 (3641)	8,027 (3641)				
15 ft. (4.57 m)					9,541 (4328)	9,541 (4328)	6,868 (3115)	6,868 (3115)		
10 ft. (3.05 m)			14,814 (6720)	14,814 (6720)	11,295 (5123)	11,295 (5123)	9,452 (4287)	7,899 (3583)		
5 ft. (1.52 m)			17,898 (8118)	17,532 (7952)	12,686 (5754)	11,009 (4994)	10,055 (4561)	7,645 (3468)		
Ground Line			18,748 (8504)	16,832 (7635)	13,398 (6077)	10,592 (4804)	10,278 (4662)	7,431 (3371)		
-5 ft. (-1.52 m)	14,190 (6436)	14,190 (6436)	17,594 (7981)	16,653 (7554)	13,001 (5897)	10,396 (4716)	9,703 (4401)	7,332 (3326)		
-10 ft. (-3.05 m)	18,476 (8381)	18,476 (8381)	14,866 (6743)	14,866 (6743)	11,159 (5062)	10,426 (4729)				
-15 ft. (-4.57 m)			9,886 (4484)	9,886 (4484)						

<i>With two-piece boom and rear outriggers and front blade down</i>										
20 ft. (6.10 m)					6,591 (2990)	6,591 (2990)				
15 ft. (4.57 m)					7,006 (3178)	7,006 (3178)				
10 ft. (3.05 m)			10,276 (4661)	10,276 (4661)	8,524 (3866)	8,524 (3866)	7,931 (3597)	7,049 (3197)		
5 ft. (1.52 m)	18,540 (8410)	18,540 (8410)	14,538 (6594)	14,538 (6594)	10,495 (4760)	9,887 (4485)	8,843 (4011)	6,921 (3139)		
Ground Line	23,946 (10 862)	23,946 (10 862)	17,469 (7924)	15,278 (6930)	12,215 (5541)	9,930 (4504)	9,739 (4418)	6,699 (3039)		
-5 ft. (-1.52 m)	26,236 (11 900)	26,236 (11 900)	18,519 (8400)	15,630 (7090)	13,164 (5971)	9,880 (4481)	8,746 (3967)	6,423 (2913)		
-10 ft. (-3.05 m)	27,353 (12 407)	27,353 (12 407)	19,016 (8626)	15,747 (7143)	13,499 (6123)	9,375 (4252)				
-15 ft. (-4.57 m)	27,353 (12 407)	27,353 (12 407)	16,900 (7666)	15,095 (6847)						

<i>With two-piece boom and four outriggers down</i>										
20 ft. (6.10 m)					6,591 (2990)	6,591 (2990)				
15 ft. (4.57 m)					7,006 (3178)	7,006 (3178)				
10 ft. (3.05 m)			10,276 (4661)	10,276 (4661)	8,524 (3866)	8,524 (3866)	7,931 (3597)	7,931 (3597)		
5 ft. (1.52 m)	18,540 (8410)	18,540 (8410)	14,538 (6594)	14,538 (6594)	10,495 (4760)	10,495 (4760)	8,843 (4011)	8,024 (3640)		
Ground Line	23,946 (10 862)	23,946 (10 862)	17,469 (7924)	17,400 (7893)	12,215 (5541)	11,235 (5096)	9,739 (4418)	7,806 (3541)		
-5 ft. (-1.52 m)	26,236 (11 900)	26,236 (11 900)	18,519 (8400)	17,705 (8031)	13,164 (5971)	11,465 (5200)	8,746 (3967)	7,555 (3427)		
-10 ft. (-3.05 m)	27,353 (12 407)	27,353 (12 407)	19,016 (8626)	18,529 (8405)	13,499 (6123)	11,009 (4994)				
-15 ft. (-4.57 m)	27,353 (12 407)	27,353 (12 407)	16,900 (7666)	16,900 (7666)						

BUCKETS ZAXIS 180W

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through Hitachi parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

Type Bucket	Bucket Width		Bucket Capacity*		Weight		Bucket Dig Force		Arm Dig Force		Bucket Tip Radius		No. Teeth
	in.	mm	cu. yd.	m ³	lb.	kg	lb.	kN	lb.	kN	in.	mm	
General-Purpose Plate Lip	24	610	0.59	0.45	1,106	502	30,410	135.3	23,250	103.4	55.5	1410	4
	30	760	0.77	0.59	1,182	536	30,410	135.3	23,250	103.4	55.5	1410	4
	36	915	0.95	0.73	1,401	635	30,410	135.3	23,250	103.4	55.5	1410	5
	42	1065	1.12	0.86	1,590	721	30,410	135.3	23,250	103.4	55.5	1410	5
General-Purpose High Capacity	48	1220	1.30	0.99	1,673	759	30,410	135.3	23,250	103.4	55.5	1410	6
	30	760	0.95	0.73	1,391	631	29,348	130.5	22,979	102.2	57.5	1461	4
	36	915	1.16	0.89	1,451	658	29,348	130.5	22,979	102.2	57.5	1461	5
	42	1065	1.38	1.06	1,596	724	29,348	130.5	22,979	102.2	57.5	1461	5
Heavy-Duty Plate Lip	48	1220	1.60	1.22	1,785	809	29,348	130.5	22,979	102.2	57.5	1461	6
	24	610	0.59	0.45	1,358	616	30,410	135.3	23,250	103.4	55.5	1410	4
	30	760	0.77	0.59	1,447	656	30,410	135.3	23,250	103.4	55.5	1410	4
	36	915	0.95	0.73	1,567	711	30,410	135.3	23,250	103.4	55.5	1410	5
Heavy-Duty High Capacity	42	1065	1.12	0.86	1,676	760	30,410	135.3	23,250	103.4	55.5	1410	5
	24	610	0.73	0.56	1,401	635	29,348	130.5	22,979	102.2	57.5	1461	4
	30	760	0.95	0.73	1,528	693	29,348	130.5	22,979	102.2	57.5	1461	4
	36	915	1.16	0.89	1,629	739	29,348	130.5	22,979	102.2	57.5	1461	5
Ditching	42	1065	1.38	1.06	1,701	771	29,348	130.5	22,979	102.2	57.5	1461	5
	60	1500	0.90	0.69	1,121	508	45,615	202.9	24,881	110.7	37.0	940	0
	72	1800	1.06	0.81	1,244	564	45,615	202.9	24,881	110.7	37.0	940	0

*All capacities are SAE heaped ratings and with side cutters.



SPEC SUMMARY ZAXIS 210W

ENGINE

Type	water-cooled, direct-injected 6BG1T with turbocharger and intercooler; meets EPA Tier II non-road emissions regulations
Rated power	148 SAE net hp (110 kW) @ 2,100 rpm
Cylinders	6
Displacement	396 cu. in. (6.494 L)
Maximum net torque	405 lb.-ft. (550 Nm) @ 1,600 rpm
Fuel consumption, typical	4 to 6 gal./hr. (15.1 to 22.7 L/h)
Cooling fan	suction-type drive
Electrical system	24-volt with 50-amp alternator
Batteries (two 12-volt)	reserve capacity: 180 min.
Off-level capacity	100% (45 deg.)

HYDRAULIC SYSTEM

Main pumps	two variable-displacement axial-piston
Minimum flow	2 x 21.5 gpm (2 x 82 L/min.)
Maximum flow	2 x 57.9 gpm (2 x 219 L/min.)
Pilot pump	two gear (one for pilot / one for steering and brakes)
Maximum flow	2 x 9.5 gpm (2 x 36 L/min.)
Pressure setting	580 psi (3999 kPa)
System operating pressure	
Implement circuits	4,980 psi (34 336 kPa)
Travel circuits	4,980 psi (34 336 kPa)
Swing circuits	4,410 psi (30 406 kPa)
Power boost	5,270 psi (36 336 kPa)
Oil filtration	one 10-micron full-flow return filter with by-pass / two pilot oil filters

CYLINDERS

	Bore	Rod diameter	Stroke
Boom (2)			
Monoblock boom	4.72 in. (120 mm)	3.35 in. (85 mm)	48 in. (1221 mm)
Two-piece boom	4.92 in. (125 mm)	3.35 in. (85 mm)	40 in. (1024 mm)
Positioning (2)			
Two-piece boom	5.32 in. (135 mm)	3.74 in. (95 mm)	32 in. (825 mm)
Arm (1)	5.32 in. (135 mm)	3.74 in. (95 mm)	58 in. (1475 mm)
Bucket (1)	4.53 in. (115 mm)	3.15 in. (80 mm)	42 in. (1060 mm)

SWING MECHANISM

Swing speed	0-13.6 rpm
Swing torque	43,218 lb.-ft. (58 640 Nm)

UNDERCARRIAGE

Travel-speed ranges	Forward and Reverse
Creeper	0-1.2 mph (0-2.0 km/h)
Low	0-4.1 mph (0-6.6 km/h)
High	0-15.5 mph (0-25.0 km/h)
Gradeability	70% (35 deg.)
Minimum turning radius	23 ft. 8 in. (7200 mm)

FRONT AXLE

All-wheel drive; front axle can be locked hydraulically in any position	
Oscillation	± 6 degrees

BRAKES

Maintenance-free wet-disc brakes on front and rear axles standard; fully hydraulic service brake system

CAPACITIES (U.S.)

Fuel tank	89.8 gal. (340 L)
Cooling system	6.0 gal. (23 L)
Engine lubrication, including filter	6.6 gal. (25 L)
Hydraulic tank	35.7 gal. (135 L)
Hydraulic system	81.9 gal. (310 L)
Propel gearbox	
Front	2.9 gal. (11 L)
Rear	3.4 gal. (13 L)
Swing drive	1.6 gal. (6.2 L)

SPEC SUMMARY ZAXIS 210W

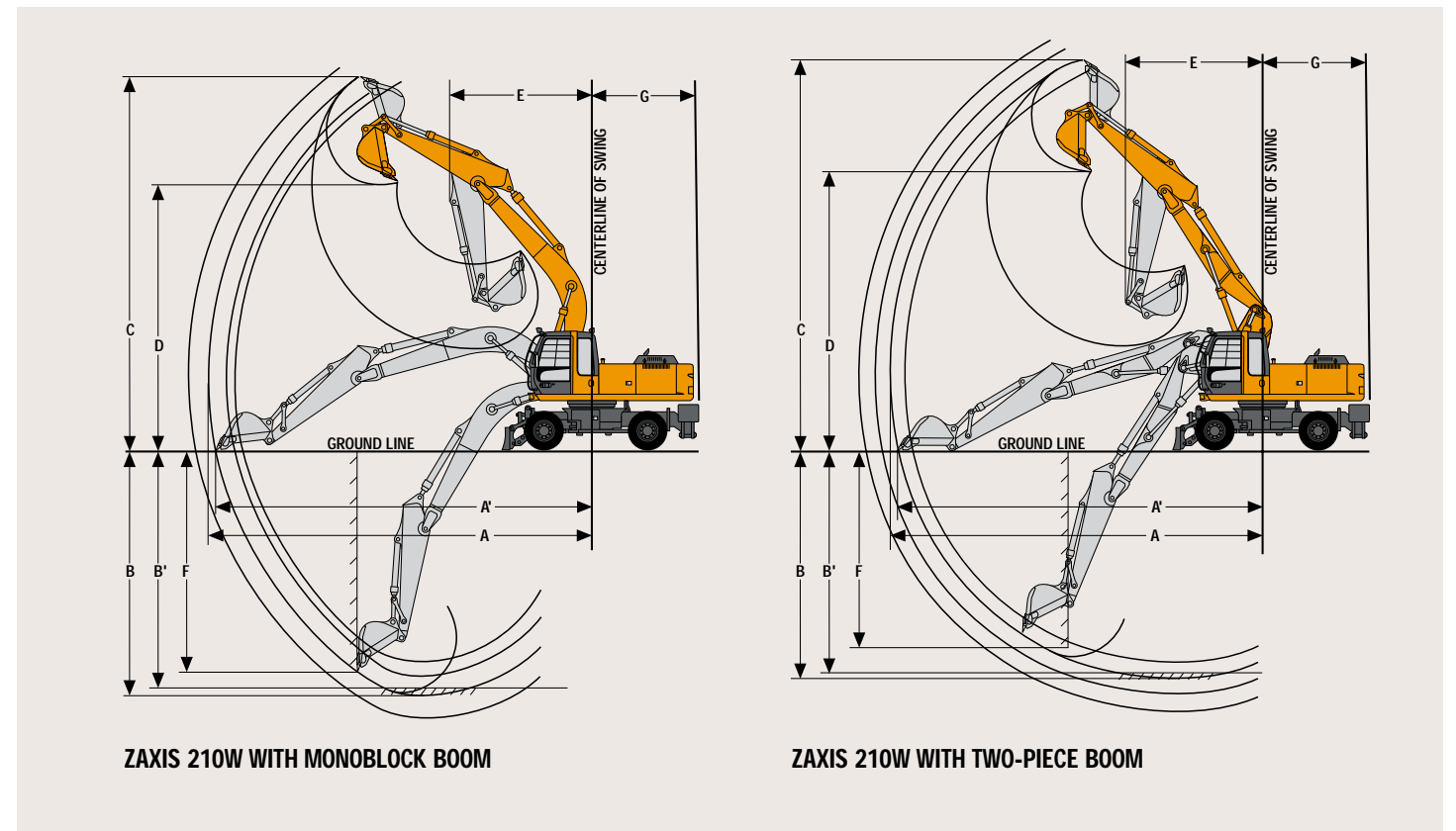
SAE OPERATING WEIGHTS

With 1.12-cu.-yd. (0.86 m ³), 42-in. (1065 mm), 1,590-lb. (723 kg) general-purpose bucket; 9-ft. 7-in. (2.91 m) arm; standard gauge; 8,929-lb. (4050 kg) counterweight; full fuel tank; and 175-lb. (79 kg) Operator	<i>Monoblock boom</i>	<i>Two-piece boom</i>
Front and rear outrigger	45,400 lb. (20 600 kg)	46,562 lb. (21 120 kg)
Front blade and rear outrigger	44,800 lb. (20 300 kg)	45,900 lb. (20 820 kg)

OPERATING INFORMATION

	<i>Monoblock boom</i>	<i>Two-piece boom</i>
Arm Force with 42-in. (1065 mm) general-purpose bucket and 9-ft. 7-in. (2.91 m) arm*	23,000 lb. (102 kN)	23,000 lb. (102 kN)
Bucket digging force with 42-in. (1065 mm) general-purpose bucket*	29,000 lb. (129 kN)	29,000 lb. (129 kN)
Lifting capacity over front @ ground level		
20-ft. (6.1 m) reach*	10,518 lb. (4771 kg)	11,292 lb. (5122 kg)
A Maximum reach	33 ft. 4 in. (10 150 mm)	32 ft. 5 in. (9870 mm)
A' Maximum reach @ ground level	32 ft. 8 in. (9950 mm)	31 ft. 8 in. (9660 mm)
B Maximum digging depth	21 ft. 1 in. (6420 mm)	19 ft. 11 in. (6070 mm)
B' Maximum digging depth @ 8-ft. (2.44 m) flat bottom	20 ft. 5 in. (6230 mm)	19 ft. 7 in. (5980 mm)
C Maximum cutting height	32 ft. 4 in. (9850 mm)	33 ft. 8 in. (10 260 mm)
D Maximum dumping height	23 ft. 1 in. (7040 mm)	24 ft. 1 in. (7350 mm)
E Minimum swing radius	12 ft. 4 in. (3770 mm)	11 ft. 10 in. (3610 mm)
F Maximum vertical wall	19 ft. 0 in. (5800 mm)	17 ft. 6 in. (5330 mm)
G Tail swing radius	8 ft. 10 in. (2700 mm)	8 ft. 10 in. (2700 mm)

*Digging forces and lift capacities with power boost.



ZAXIS 210W WITH MONOBLOCK BOOM

ZAXIS 210W WITH TWO-PIECE BOOM

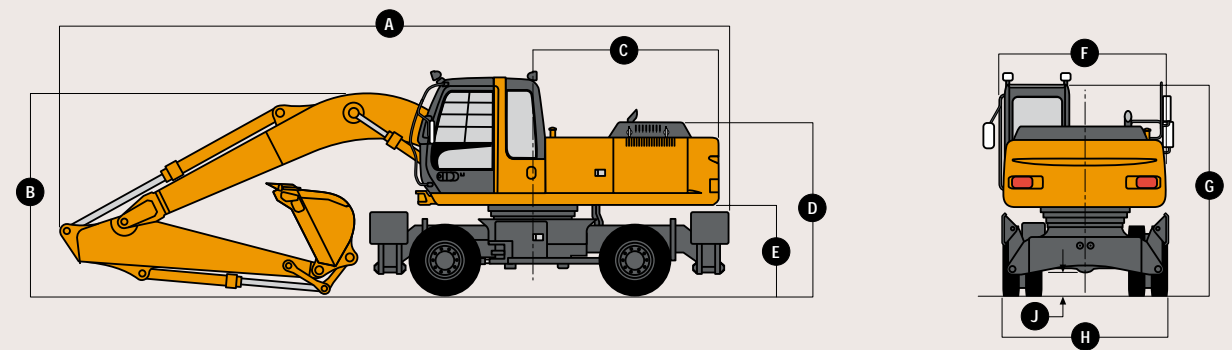
DIMENSIONS ZAXIS 210W

With standard gauge	Front and rear outrigger	Front blade and rear outrigger
A Overall length (with monoblock boom and 9-ft. 7-in. [2.91 m] arm)*	32 ft. 2 in. (9810 mm)	32 ft. 2 in. (9810 mm)
A' Overall length (with two-piece boom and 9-ft. 7-in. [2.91 m] arm)*	30 ft. 9 in. (9370 mm)	30 ft. 9 in. (9370 mm)
B Overall height of boom (with monoblock boom and 9-ft. 7-in. [2.91 m] arm)*	10 ft. 2 in. (3110 mm) [†]	10 ft. 2 in. (3110 mm) [†]
B' Overall height of boom (with two-piece boom and 9-ft. 7-in. [2.91 m] arm)*	11 ft. 3 in. (3440 mm)	11 ft. 3 in. (3440 mm)
C Rear-end swing radius	8 ft. 10 in. (2700 mm)	8 ft. 10 in. (2700 mm)
D Engine cover height	8 ft. 11 in. (2465 mm)	8 ft. 11 in. (2465 mm)
E Counterweight clearance	4 ft. 2 in. (1275 mm)	4 ft. 2 in. (1275 mm)
F Overall width of upperstructure	8 ft. 2 in. (2490 mm)	8 ft. 2 in. (2490 mm)
G Overall height of cab	10 ft. 2 in. (3110 mm)	10 ft. 2 in. (3110 mm)
H Overall width of tires**	8 ft. 2 in. (2500 mm)	8 ft. 2 in. (2500 mm)
J Minimum ground clearance	1 ft. 1 in. (340 mm)	1 ft. 1 in. (340 mm)
K Wheelbase	9 ft. 0 in. (2750 mm)	9 ft. 0 in. (2750 mm)
L Swing center to rear axle	4 ft. 2 in. (1270 mm)	4 ft. 2 in. (1270 mm)
M Front overhang	4 ft. 6 in. (1365 mm)	4 ft. 5 in. (1355 mm)
N Rear overhang	3 ft. 7 in. (1080 mm)	3 ft. 7 in. (1080 mm)
O Maximum blade lower	N/A	9 ft. 0 in. (215 mm)
P Overall height of blade	N/A	1 ft. 11 in. (590 mm)
Q Maximum blade raise	N/A	1 ft. 3 in. (375 mm)
R Overall width of blade***	N/A	8 ft. 4 in. (2530 mm)
S Overall width with outrigger retracted	8 ft. 1 in. (2470 mm)	8 ft. 1 in. (2470 mm)
T Overall width with outrigger extended	12 ft. 2 in. (3700 mm)	12 ft. 2 in. (3700 mm)
V Overall height of boom (traveling, with 9-ft. 7-in. [2.91 m] arm)	12 ft. 10 in. (3900 mm)	12 ft. 10 in. (3900 mm)
W Front overhang (traveling, with 9-ft. 7-in. [2.91 m] arm)	17 ft. 3 in. (5265 mm)	17 ft. 3 in. (5265 mm)

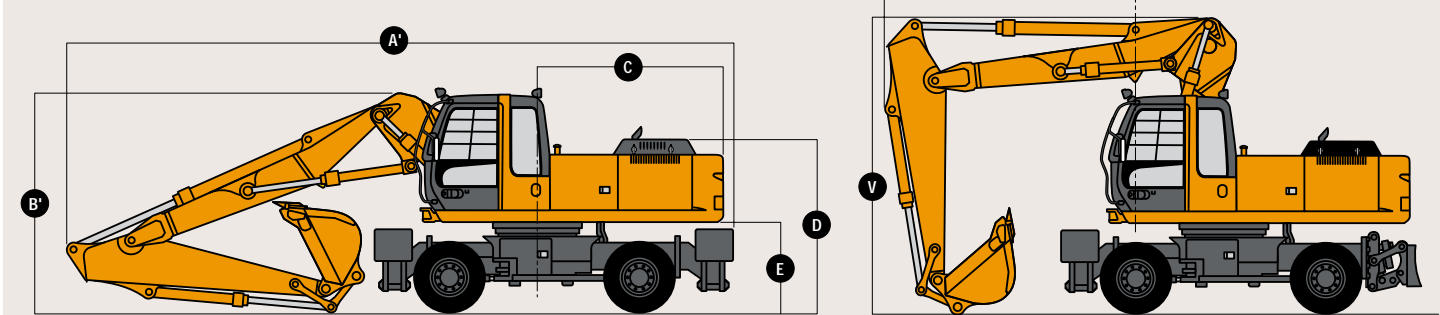
*Transportation dimension (without or with blade).
 **Transportation dimension (without blade).
 ***Transportation dimension (with blade).
[†]Cab height.

DIMENSIONS ZAXIS 210W

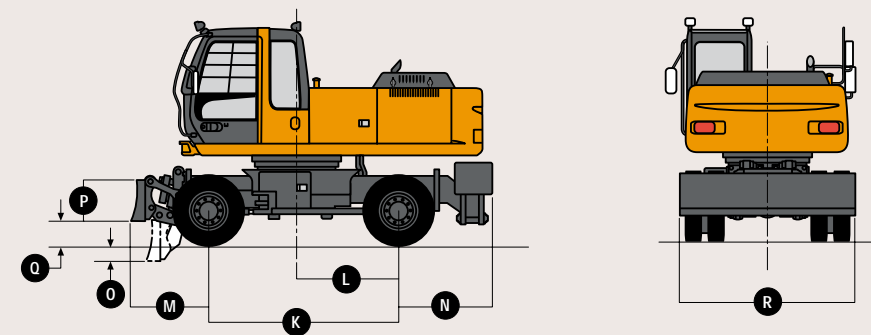
ZAXIS 210W WITH MONOBLOCK BOOM



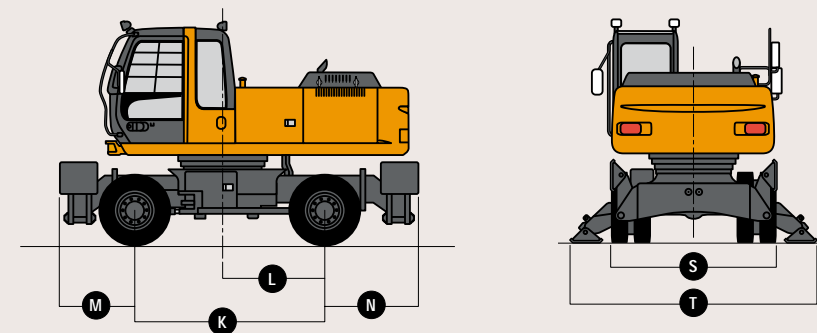
ZAXIS 210W WITH TWO-PIECE BOOM



ZAXIS 210W WITH FRONT BLADE AND REAR OUTRIGGER



ZAXIS 210W WITH FRONT AND REAR OUTRIGGER



LIFTING CAPACITIES Z AXIS 210W

Boldface italic type indicates hydraulic-limited capacities; **lightface** type indicates stability-limited capacities, in lb. (kg). Ratings at bucket lift hook; machine equipped with 1.12-cu.-yd. (0.86 m³), 42-in. (1065 mm) wide, 1,590-lb. (723 kg) bucket; 9-ft. 7-in. (2.91 m) arm; and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are with power boost and are based on SAE J1097.

Load Point Height	10 ft. (3.05 m)		15 ft. (4.57 m)		20 ft. (6.10 m)		25 ft. (7.62 m)		30 ft. (9.15 m)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
<i>With monoblock boom and outrigger and front blade down</i>										
20 ft. (6.10 m)							8,007 (3632)	7,620 (3456)		
15 ft. (4.57 m)					9,245 (4193)	9,245 (4193)	8,834 (4007)	7,508 (3406)		
10 ft. (3.05 m)			15,453 (7009)	15,453 (7009)	11,550 (5239)	10,527 (4775)	9,892 (4487)	7,229 (3279)		
5 ft. (1.52 m)			20,773 (9422)	15,351 (6963)	14,067 (6381)	9,888 (4485)	11,176 (5069)	6,912 (3135)	7,786 (3532)	5,028 (2281)
Ground Line			23,208 (10 527)	14,718 (6676)	15,901 (7213)	9,440 (4282)	12,234 (5549)	6,659 (3020)		
-5 ft. (-1.52 m)	13,612 (6174)	13,612 (6174)	23,322 (10 579)	14,599 (6622)	16,608 (7533)	9,244 (4193)	12,669 (5747)	6,534 (2964)		
-10 ft. (-3.05 m)	22,533 (10 221)	22,533 (10 221)	21,837 (9905)	14,742 (6687)	15,990 (7253)	9,275 (4207)	11,896 (5396)	6,594 (2991)		
-15 ft. (-4.57 m)	25,073 (11 373)	25,073 (11 373)	18,247 (8277)	15,142 (6868)	13,162 (5970)	9,577 (4344)				

<i>With monoblock boom and four outriggers down</i>										
20 ft. (6.10 m)							8,007 (3632)	8,007 (3632)		
15 ft. (4.57 m)					9,245 (4193)	9,245 (4193)	8,834 (4007)	8,834 (4007)		
10 ft. (3.05 m)			15,453 (7009)	15,453 (7009)	11,550 (5239)	11,550 (5239)	9,892 (4487)	8,581 (3892)		
5 ft. (1.52 m)			20,773 (9422)	18,603 (8438)	14,067 (6381)	11,810 (5357)	11,176 (5069)	8,255 (3744)	7,786 (3532)	6,053 (2746)
Ground Line			23,208 (10 527)	17,931 (8133)	15,901 (7213)	11,343 (5145)	12,234 (5549)	7,993 (3626)		
-5 ft. (-1.52 m)	13,612 (6174)	13,612 (6174)	23,322 (10 579)	17,805 (8076)	16,608 (7533)	11,139 (5053)	12,669 (5747)	7,865 (3568)		
-10 ft. (-3.05 m)	22,533 (10 221)	22,533 (10 221)	21,837 (9905)	17,956 (8145)	15,990 (7253)	11,171 (5067)	11,896 (5396)	7,927 (3596)		
-15 ft. (-4.57 m)	25,073 (11 373)	25,073 (11 373)	18,247 (8277)	18,247 (8277)	13,162 (5970)	11,486 (5210)				

<i>With two-piece boom and outrigger and front blade down</i>										
25 ft. (7.62 m)					5,724 (2596)	5,724 (2596)				
20 ft. (6.10 m)					6,099 (2766)	6,099 (2766)				
15 ft. (4.57 m)					7,102 (3221)	7,102 (3221)	7,889 (3578)	7,548 (3424)		
10 ft. (3.05 m)			11,379 (5161)	11,379 (5161)	9,441 (4282)	9,441 (4282)	8,905 (4039)	7,445 (3377)		
5 ft. (1.52 m)			17,745 (8049)	16,028 (7270)	12,440 (5643)	10,330 (4686)	10,477 (4752)	7,420 (3366)		
Ground Line	27,399 (12 428)	27,399 (12 428)	22,424 (10 171)	15,980 (7248)	15,226 (6906)	10,327 (4684)	12,124 (5499)	7,175 (3255)		
-5 ft. (-1.52 m)	32,414 (14 703)	32,414 (14 703)	24,793 (11 246)	16,358 (7420)	17,204 (7804)	10,598 (4807)	13,426 (6090)	6,809 (3089)		
-10 ft. (-3.05 m)	34,604 (15 696)	33,679 (15 277)	25,566 (11 597)	16,449 (7461)	18,093 (8207)	9,949 (4513)				
-15 ft. (-4.57 m)	34,613 (15 700)	33,776 (15 321)	26,281 (11 921)	15,948 (7234)						

<i>With two-piece boom and four outriggers down</i>										
25 ft. (7.62 m)					5,724 (2596)	5,724 (2596)				
20 ft. (6.10 m)					6,099 (2766)	6,099 (2766)				
15 ft. (4.57 m)					7,102 (3221)	7,102 (3221)	7,889 (3578)	7,889 (3578)		
10 ft. (3.05 m)			11,379 (5161)	11,379 (5161)	9,441 (4282)	9,441 (4282)	8,905 (4039)	8,681 (3938)		
5 ft. (1.52 m)			17,745 (8049)	17,745 (8049)	12,440 (5643)	12,066 (5473)	10,477 (4752)	8,610 (3905)		
Ground Line	27,399 (12 428)	27,399 (12 428)	22,424 (10 171)	18,814 (8534)	15,226 (6906)	12,023 (5454)	12,124 (5499)	8,530 (3869)		
-5 ft. (-1.52 m)	32,414 (14 703)	32,414 (14 703)	24,793 (11 246)	19,192 (8705)	17,204 (7804)	12,443 (5644)	13,426 (6090)	8,170 (3706)		
-10 ft. (-3.05 m)	34,604 (15 696)	34,604 (15 696)	25,566 (11 597)	19,871 (9013)	18,093 (8207)	11,906 (5400)				
-15 ft. (-4.57 m)	34,613 (15 700)	34,613 (15 700)	26,281 (11 921)	19,339 (8772)						

BUCKETS Z AXIS 210W

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through Hitachi parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

Type Bucket	Bucket Width		Bucket Capacity*		Weight		Bucket Dig Force		Arm Dig Force		Bucket Tip Radius		No. Teeth
	in.	mm	cu. yd.	m ³	lb.	kg	lb.	kN	9 ft. 7 in. (2.91 m)	kN	in.	mm	
General-Purpose Plate Lip	24	610	0.59	0.45	1,106	502	30,410	135.3	23,250	103.4	55.5	1410	4
	30	760	0.77	0.59	1,182	536	30,410	135.3	23,250	103.4	55.5	1410	4
	36	915	0.95	0.73	1,401	635	30,410	135.3	23,250	103.4	55.5	1410	5
	42	1065	1.12	0.86	1,590	721	30,410	135.3	23,250	103.4	55.5	1410	5
	48	1220	1.30	0.99	1,673	759	30,410	135.3	23,250	103.4	55.5	1410	6
General-Purpose High Capacity	30	760	0.95	0.73	1,391	631	29,348	130.5	22,979	102.2	57.5	1461	4
	36	915	1.16	0.89	1,451	658	29,348	130.5	22,979	102.2	57.5	1461	5
	42	1065	1.38	1.06	1,596	724	29,348	130.5	22,979	102.2	57.5	1461	5
	48	1220	1.60	1.22	1,785	809	29,348	130.5	22,979	102.2	57.5	1461	6
Heavy-Duty Plate Lip	24	610	0.59	0.45	1,358	616	30,410	135.3	23,250	103.4	55.5	1410	4
	30	760	0.77	0.59	1,447	656	30,410	135.3	23,250	103.4	55.5	1410	4
	36	915	0.95	0.73	1,567	711	30,410	135.3	23,250	103.4	55.5	1410	5
	42	1065	1.12	0.86	1,676	760	30,410	135.3	23,250	103.4	55.5	1410	5
	48	1220	1.30	0.99	1,759	798	30,410	135.3	23,250	103.4	55.5	1410	6
Heavy-Duty High Capacity	24	610	0.73	0.56	1,401	635	29,348	130.5	22,979	102.2	57.5	1461	4
	30	760	0.95	0.73	1,528	693	29,348	130.5	22,979	102.2	57.5	1461	4
	36	915	1.16	0.89	1,629	739	29,348	130.5	22,979	102.2	57.5	1461	5
	42	1065	1.38	1.06	1,701	771	29,348	130.5	22,979	102.2	57.5	1461	5
Ditching	60	1500	0.90	0.69	1,121	508	45,615	202.9	24,881	110.7	37.0	940	0
	72	1800	1.06	0.81	1,244	564	45,615	202.9	24,881	110.7	37.0	940	0

*All capacities are SAE heaped ratings and with side cutters.



EQUIPMENT

Key: ● Standard equipment ▲ Optional or special equipment

180 210 **ENGINE**

- ● Meets EPA Tier II non-road emissions regulations
- ● Auto-idle system
- ● Coolant recovery tank
- ● Dual element dry-type air filter
- ● Enclosed fan guard (conforms to SAE J1308)
- ● Engine coolant to -34°F (-37°C)
- ● Fuel filter with water separator
- ● Full-flow oil filter
- ● Radiator trash screen
- ● Turbocharger with charge air cooler
- ● Underhood muffler with vertical curved end exhaust stack

HYDRAULIC SYSTEM

- ● Reduced-drift valve for boom down, arm in
- ● Auxiliary hydraulic valve section
- ● Spring-applied, hydraulically released automatic swing brake
- ● Brake valves for travel circuits
- ● Individual control of outriggers
- ▲ ▲ Auxiliary hydraulic lines
- ▲ ▲ Auxiliary pilot and electric controls
- ▲ ▲ Hydraulic filter restriction indicator kit

UNDERCARRIAGE

- ● Brakes, four wheel, maintenance free, wet disc
- ● Creeper speed range
- ● Emergency steering system
- ● Front axle, oscillating, lockable
- ● Front blade and rear outriggers (2)
- ▲ ▲ Outriggers (4)
- ● Parking brake
- ● Dual traction-type tires, 10.00-20, 14 PR with spacer
- ▲ ▲ Single traction-type tires, 600/40 - 22.5
- ● Toolbox on left chassis

UPPERSTRUCTURE

- ● Right- and left-hand mirrors
- ● Vandal locks with ignition key: Cab door / Fuel cap / Service doors

180 210 **FRONT ATTACHMENTS**

- 18-ft. 0-in. (5.5 m) monoblock boom with 8-ft. 10-in. (2.7 m) arm
- 18-ft. 8-in. (5.68 m) monoblock boom with 9-ft. 7-in. (2.91 m) arm
- ▲ Variable-geometry, two-piece boom with 8-ft. 10-in. (2.7 m) arm
- ▲ Variable-geometry, two-piece boom with 9-ft. 7-in. (2.91 m) arm
- Bucket-to-arm clearance adjustable bushing (except ditching buckets)
- Centralized lubrication system
- Dirt seals on all bucket pins
- ▲ Buckets: Ditching / General purpose / General-purpose high capacity / Heavy duty / Heavy-duty high capacity / Side cutters and teeth

OPERATOR'S STATION

- Adjustable independent control positions (levers-to-seat, seat-to-pedals)
- AM/FM radio
- Auto climate control/air conditioner, 20,000 Btu/hr. (5.9 kW) with heater and pressurizer
- Built-in Operator's Manual storage compartment and manual
- Cell-phone power outlet, 12 volt, 60 watt, 5 amp
- Coat hook
- Deluxe suspension cloth seat with 4-in. (100 mm) adjustable armrests
- Floor mat
- Front windshield wiper with intermittent speeds
- Gauges (illuminated): Engine coolant / Fuel / Brake pressure
- Horn, electric
- Hourmeter, electric
- Hydraulic shutoff lever, all controls
- Hydraulic warm-up control
- Interior light
- Large cup holder
- Machine Information Center (MIC)

See your Hitachi dealer for further information.

180 210 **OPERATOR'S STATION (continued)**

- Mode selectors (illuminated): Power modes - three / Work mode - one
- High/low travel mode with creeper range
- Monitor system with alarm features: Auto-idle/auto-acceleration indicator light / Brake pressure audible alarm / Engine air cleaner restriction indicator light / Engine coolant temperature indicator light with audible alarm / Engine oil pressure indicator light with audible alarm / Low alternator charge indicator light / Low fuel indicator light / Speedometer / Trip meter / Wiper mode indicator / Work lights on indicator / Work mode indicator
- ▲ Monitor system with alarm features: Hydraulic oil filter restriction indicator light
- Motion alarm with cancel switch (conforms to SAE J994)
- Power-boost switch on right control lever
- SAE two-lever control pattern
- Seat belt, 2 in. (51 mm), retractable
- ▲ Seat belt, 3 in. (76 mm), non-retractable
- Tinted glass
- Transparent tinted overhead hatch
- Tilting steering column
- Sun visor
- Windshield washer/wiper with constant and intermittent speeds
- ▲ 24- to 12-volt D.C. radio converters, 10 amp
- ▲ Window vandal protection covers

ELECTRICAL

- 50-amp alternator
- Blade-type multi-fused circuits
- Positive terminal battery covers

LIGHTS

- Headlights (2)
- Work lights, top of cab (2), rear of cab (1), and boom (1)
- Turn signals / Hazard lights
- Brake lights
- Side marker lights

CONTROL OWNING AND OPERATING COSTS

Customer Personal Service (CPS) is part of Hitachi's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

Fluid analysis program - tells you what's going on inside all of your machine's major components so you'll know if there's a problem before you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

Preventive Maintenance (PM) agreements - give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

Extended coverage - gives you a fixed cost for machine repairs for a given period of time so you can effectively manage expenses. Whether you work in a severe-service setting, or you just want to spread the risk of doing business, this is a great way to custom-fit coverage to your operation. An extended coverage contract also travels well because it's backed by the company and is honored by all Hitachi dealers.

Customer Support Advisors (CSAs) - the CSA program lends a personal quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for your business and take the burden of machine maintenance off your shoulders.

HITACHI

Hitachi Construction Products

P.O. Box 8806 • 1515 5th Avenue • Moline, IL 61265

www.hitachiconstruction.com

DKAZX180WHT Litho in U.S.A. (05-06)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft. (3050 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with PCSA and SAE standards. Except where otherwise noted, these specifications are based on a unit with 0.92-cu. yd. (0.7 m³), 35-in. (900 mm) bucket; 8-ft. 10-in. (2.7 m) arm; 8,929-lb. (4050 kg) counterweight; full fuel tank; and 175-lb. (79 kg) operator.