

BY NOT BUILDING EVERYTHING, WE COMPROMISE ON NOTHING.

EXCAVATOR FOCUSED. NO DISTRACTIONS.

At Hitachi, we don't get sidetracked building every kind of construction equipment. Instead, we build excavators. It's that kind of focus, combined with our legacy of meeting demanding mining applications, that results in highly efficient, reliable and durable machines.

Mobile and maneuverable, Hitachi Dash-5 Wheeled Excavators are ready to roll on your jobsites. The ZXI90W-5 and ZX230W-5 quietly go about their business with powerful, fuel-efficient EPA Interim Tier 4 (IT4)/EU Stage IIIB Isuzu diesel engines that meet rigid emission standards. Operators are more comfortable, productive and safer in a redesigned cab that includes an LCD monitor displaying a wealth of machine information. Features such as auto-idle and auto-shutdown help save fuel and minimize machine wear. And maintenance is made easy with centrally located filters and automatic exhaust filter cleaning.

It all leads to lower operating costs and higher jobsite performance. When you choose Hitachi, you get wheeled excavators that roll with the punches...

AND OUTLAST THEM.









ROLL OVER TOUGH JOBS.

LESS EFFORT, POWERFUL PERFORMANCE.

Dash-5 Wheeled Excavators deliver the smooth responsiveness and multifunction capability that every operator wants. Our HIOS III hydraulic system perfectly balances engine performance with hydraulic flow. Its hydraulic boost system and enhanced boom recirculation generate aggressive boom and arm speed — returning the arm to dig faster, so you can move more dirt in a day.

Armed with an IT4/Stage IIIB Isuzu engine, these excavators combine power and finesse for maximum productivity on any job from roadside construction projects to utility work. Choose from three work modes to fit the task. High Productivity (HP) delivers more power and faster hydraulic response. Power (P) delivers a balance of power and speed, plus fuel economy for normal operation. Economy (E) maximizes fuel efficiency while delivering an enhanced level of productivity.

Have a need for speed? Our pavement-friendly wheeled excavators cruise around quickly at speeds up to 35 km/h (21.7 mph), depending on the model. Need even more? Customize your machine with a variety of boom, blade, bucket and outrigger options.

WORK ANYWHERE, ANYTIME.

- The powerful IT4/Stage IIIB Isuzu engine gets the most out of every drop of fuel.
- Switching between three work modes is effortless with the push of a button.
- The power dig function gives you an extra dose of hydraulic pressure to muscle through tough jobs.
- Get even more jobsite visibility with the standard rearview camera.
- The refined parallelogram blade better handles backfill and cleanup duties, while serving as a third stabilizer during digging.

COMFORTABLE CABS MAKE FOR PRODUCTIVE OPERATORS.

COMFORTABLE, SAFE AND EFFICIENT.

Our ergonomic cabs are designed for comfort, safety and productivity. A refined, multifunction LCD monitor easily provides machine performance information and convenience functions and features. Operators will appreciate the wide entryway, adjustable steering tilt and high-back sculpted seat, lots of storage and generous legroom. Unmatched visibility, low-effort joysticks, a highly efficient HVAC system, plus other features allow your operators to...

FOCUS ON PRODUCTIVITY.



Multilanguage LCD monitor with integrated radio and HVAC provides easy access to maintenance alerts, diagnostics, rearview camera visual display and more.



■ Ergonomically correct shortthrow pilot levers provide smooth, precise control with less effort.

- The Forward-Neutral-Reverse (F-N-R) switch is conveniently located on the left pilot lever.
- Pushbuttons on the right lever allow fingertip control of auxiliary hydraulic flow for operating attachments.
- The durable, redesigned cab meets the ISO standard for rollover protective structure (ROPS) certification.









LOWER OPERATING COSTS.

The ZXI90W-5 and ZX230W-5 are loaded with time- and money-saving advantages — from grouped service points to centralized filters. Easy-access, remote-mount oil and fuel filters minimize downtime for periodic maintenance. Scheduled maintenance is easy to track using ZXLinkTM and the in-cab diagnostic monitor. All of these features mean less time messing with maintenance so you...

GET MORE WORK DONE.



Easy-to-navigate LCD monitor issues scheduled maintenance alerts and displays diagnostic information, which helps decrease downtime.



■ Centrally located engine oil filter, pilot and steering filters, and fuel filters allow for quick and easy servicing. Automatic exhaust filter cleaning saves you even more time.



Large service doors provide wide-open access to components.

DURABILITY YOU CAN DEPEND ON.

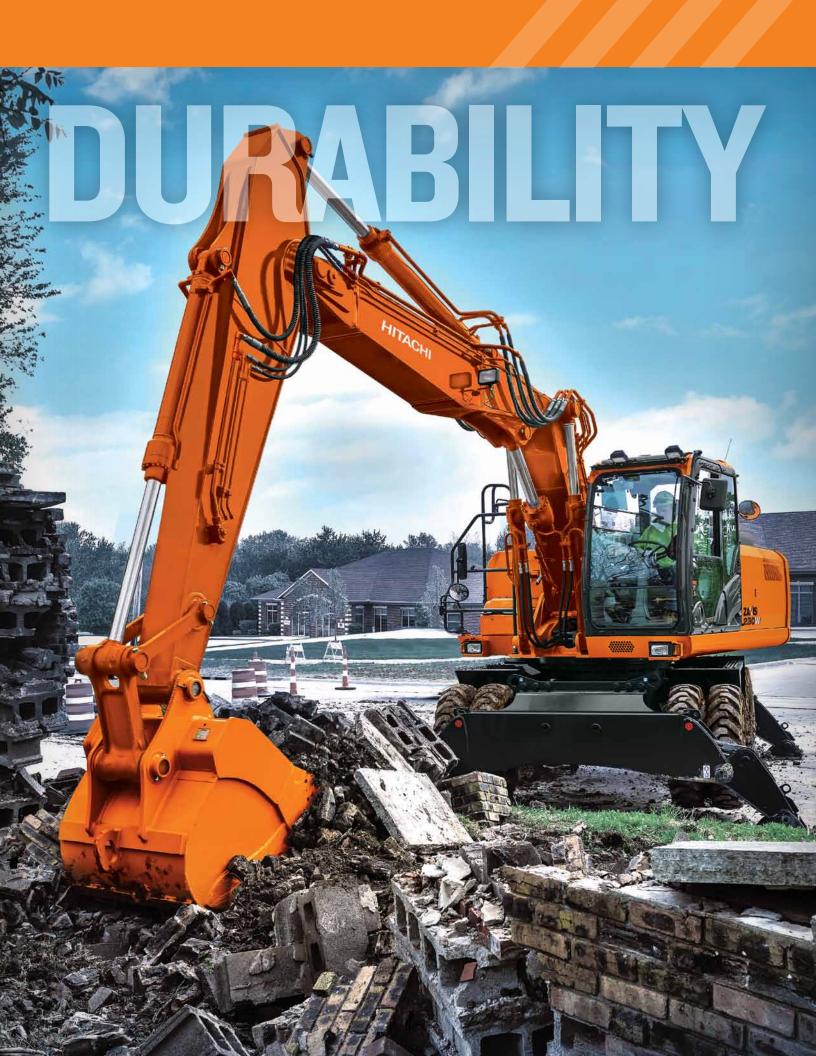
BUILT-IN TOUGHNESS.

Rugged and reliable, the ZXI90W-5 and ZX230W-5 aren't intimidated by tough jobs or uneven terrain. Built with the power of focus, they're armed with everything you need — and more. D-channel side frames house and protect the highly efficient coolers and the IT4/Stage IIIB Isuzu diesel engine. Toughness is built into the dual tires, specially designed for Hitachi by Bridgestone. Welded bulkheads within the boom resist torsional stress, and tungsten-carbide thermal-coated arm surfaces and oil-impregnated bushings further enhance durability. Booms, arms and mainframes are so tough, they're warranted for three years or I0,000 hours, whichever comes first. Add it all up and our Dash-5 Wheeled Excavators...

ROLL OVER THE COMPETITION.

- Wider axles result in increased stability for the ZX230W-5, and the short wheelbase of the ZXI90W-5 is perfect in tight quarters.
- Dual Bridgestone tires come with a spacer ring to help keep out dirt and debris.
- Oil-impregnated bushings enhance durability and extend lube intervals to 500 hours for the arm-and-boom joint and 100 hours for the bucket joint.
- Reinforced D-channel side frames provide maximum cab and component impact protection.
- Tungsten-carbide-coated wear surfaces protect the critical bucket-to-arm joint.
- Reinforced resin thrust plates and an exclusive double-seal swing bearing deliver rock-solid durability.





ZX190W-5 SPECS

Alternator Rating

Swing Mechanism Swing Speed

Lights (6)

Driving Lights

Swing Torque

50 amp

12.2 rpm

53 000 Nm (39,091 lb.-ft.)

ZX190W-5

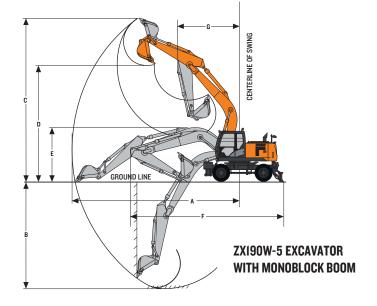
Position.	7V(00W F		
Engine Manufacturer and Manufacturer	ZX190W-5		
Manufacturer and Model	Isuzu 4HKI		
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB		
Net Rated Power (ISO 9249)	119 kW (159 hp) @ 2,000 rpm		
Cylinders	4		
Displacement	5.2 L (317 cu. in.)		
Off-Level Capacity	67% (34 deg.)		
Aspiration	Turbocharged, air-to-air charge-	-air cooler	
Cooling			
High-efficiency, direct-drive suction-type fan			
Powertrain			
2-speed propel with creeper mode and automatic s	shift		
Travel Speed (Maximum)			
Creeper	2.6 km/h (1.6 mph)		
Low	8.6 km/h (5.3 mph)		
High	35.0 km/h (21.7 mph)		
Front Axle	All-wheel drive; can be locked by	draulically in any position	
Oscillation	±7 deg.	, ,,	
Brakes	•	es on front and rear axles; fully h	vdraulic service brakes
Tires	Standard size, dual-traction-typ		,
Drawbar Pull	9534 kgf (20,570 lbf)		
Hydraulics	200 : 1.8. (20,0.0 12.)		
Main Pumps	2 variable-displacement axial-pi	ston numns	
Pump Flow (maximum x 2)	165 L/m (43.6 gpm)	Ston pumps	
System Operating Pressure	100 L/III (40.0 gpiii)		
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	34 800 kPa (5,047 psi)		
Swing	33 400 kPa (4,844 psi)		
	· · · · /		
Power Boost	36 300 kPa (5,265 psi)		ahtaff laa.
Controls	Pilot levers, snort-stroke, low-ei	ffort hydraulic pilot controls with	SNUTOTT IEVER
Cylinders			
Heat treated, chrome-plated, polished cylinder roo	• • •	-,	
	Bore	Rod Diameter	Stroke
Monoblock Boom (2)	120 mm (4.7 in.)	85 mm (3.3 in.)	1050 mm (41.3 in.)
2-Piece Boom (2)	120 mm (4.7 in.)	85 mm (3.3 in.)	980 mm (38.6 in.)
Positioning, 2-Piece Boom (1)	170 mm (6.7 in.)	105 mm (4.1 in.)	670 mm (26.4 in.)
Arm (I)	125 mm (4.9 in.)	90 mm (3.5 in.)	1371 mm (54.0 in.)
Bucket (I)	105 mm (4.1 in.)	75 mm (3.0 in.)	1060 mm (41.7 in.)
Electrical			
Voltage	24 volt		
Number of Batteries (12 volt)	2		

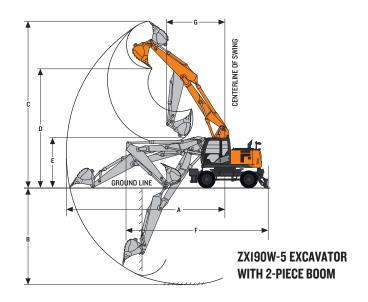
Headlights (2), top of cab (2), rear of cab (1), and boom (1) $\,$

Headlights (2), turn signals and hazard lights, brake lights and side marker lights

erviceability	ZX190W-5
efill Capacities	
Fuel Tank	290 L (77 gal.)
Engine Coolant	25 L (7 gal.)
Engine Oil with Filter	23 L (6 gal.)
Hydraulic Tank	IOO L (26 gal.)
Hydraulic System	I80 L (48 gal.)
Swing Drive	6.2 L (6.6 qt.)
Transmission	2.5 L (2.6 qt.)
Axle	
Front	9.5 L (2.5 gal.)
Rear	14 L (3.7 gal.)
Front and Rear Hubs	2.5 L x 2 (2 x 2.6 qt. x 2)
perating Weights	

		Monoblock Boom	O Disas Passes
			2-Piece Boom
Fro	nt Outrigger and Rear Outrigger	20 200 kg (44,530 lb.)	20 550 kg (45,300 lb.)
Fro	nt Blade and Rear Outrigger	19 960 kg (44,000 lb.)	20 310 kg (44,780 lb.)
Op.	erating Dimensions		
		Monoblock Boom	2-Piece Boom
	Arm Digging Force		
	SAE	87 kN (19,558 lb.)	87 kN (19,558 lb.)
	ISO	91 kN (20,458 lb.)	9I kN (20,458 lb.)
	Bucket Digging Force		
	SAE	107.0 kN (24,055 lb.)	107.0 kN (24,055 lb.)
	ISO	123.0 kN (27,651 lb.)	123.0 kN (27,651 lb.)
Α	Maximum Reach	9.58 m (31 ft. 5 in.)	9.48 m (31 ft. 1 in.)
В	Maximum Digging Depth	5.83 m (19 ft. 2 in.)	5.93 m (19 ft. 5 in.)
C	Maximum Cutting Height	9.25 m (30 ft. 4 in.)	9.85 m (32 ft. 4 in.)
D	Maximum Dumping Height	6.45 m (21 ft. 2 in.)	6.95 m (22 ft. I0 in.)
E	Overall Height	3.13 m (10 ft. 3 in.)	3.21 m (10 ft. 6 in.)
F	Overall Length		
	Front Outrigger and Rear Outrigger	9.54 m (31 ft. 4 in.)	9.36 m (30 ft. 9 in.)
	Front Blade and Rear Outrigger	9.48 m (31 ft. 1 in.)	9.30 m (30 ft. 6 in.)
G	Minimum Swing Radius	3.48 m (II ft. 5 in.)	3.00 m (9 ft. 10 in.)





ZX190W-5 SPECS

	achine Dimensions	ZX190W-5		F		
	th standard gauge and 2.7I-m (8 ft. II in.) arm; o		th the front and rear	\		
•	trigger configuration, and for the front blade an		0 Pi P-		h	
	Osservall I are made	Monoblock Boom	2-Piece Boom			
	Overall Length	8.98 m (29 ft. 6 in.)	0.00 (00 (; 10 ;)			
	Overall Length	0.10 (10.6: 0:)	8.80 m (28 ft. 10 in.)			
	Overall Height	3.13 m (10 ft. 3 in.)	0.01 /10 /: 0: \		G	
	Overall Height	0.00 (7:17:1)	3.21 m (10 ft. 6 in.)	8. 8		
	Rear-End Swing Radius	2.32 m (7 ft. 7 in.)	2.32 m (7 ft. 7 in.)			
	Engine Cover Height	2.48 m (8 ft. 2 in.)	2.48 m (8 ft. 2 in.)			
	Counterweight Clearance	1.24 m (4 ft. 1 in.)	1.24 m (4 ft. 1 in.)			
	Overall Width of Upperstructure	2.45 m (8 ft. 0 in.)	2.45 m (8 ft. 0 in.)			
ì	Overall Height of Cab	3.13 m (10 ft. 3 in.)	3.13 m (10 ft. 3 in.)			
ł	Overall Width of Tires	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	-		
ı	Minimum Ground Clearance	0.35 m (14 in.)	0.35 m (14 in.)			_
(Wheelbase	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)		1	
	Swing Center to Rear Axle	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)			-
	Front Overhang					≪ 0 Þ
	Front Outrigger and Rear Outrigger	1.38 m (4 ft. 6 in.)	1.38 m (4 ft. 6 in.)			
	Front Blade and Rear Outrigger	1.32 m (4 ft. 4 in.)	1.32 m (4 ft. 4 in.)			
		1.09 m (3 ft. 7 in.)	1.09 m (3 ft. 7 in.)			
	Maximum Blade Lower	0.22 m (9 in.)	0.22 m (9 in.)			
	Overall Height of Blade	0.59 m (23 in.)	0.59 m (23 in.)			
	Maximum Blade Raise	0.37 m (15 in.)	0.37 m (15 in.)			
		2.53 m (8 ft. 4 in.)				
			2.53 m (8 ft. 4 in.)	4		
	Overall Width with Outrigger Retracted	2.47 m (8 ft. l in.)	2.47 m (8 ft. 1 in.)			
		3.44 m (II ft. 3 in.)	3.44 m (II ft. 3 in.)		S	
′	Overall Height of Boom (traveling)	4.00 m (13 ft. 1 in.)	4.00 m (13 ft. 1 in.)		· 	
	Front Overhand (traveling)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)		T	
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SPEGS

Lift Charts		ZX190W-5										
Boldface type indicates hydraulically												arm, and
standard counterweight; and situated												(00 (·)
Load Point Height	1.5 m	(5 ft.)	3.0 m	(IU ff.)	4.5 m	(15 ff.)	6.U m	(20 ft.)	7.5 m ((25 ff.)	9.0 m ((30 ff.)
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With monoblock boom, rear outrigger	s, and front blade do	wn										
6.0 m (20 ft.)							4420 (9,420)	4420 (9,420)				
4.5 m (15 ft.)					6430 (13,740)	6430 (13,740)	5320 (11,560)	4730 (10,160)	3330	3170		
3.0 m (IO ft.)					7910	7280	5930	4520	4730	3090		
15 (5())					(17,040)	(15,660)	(12,850)	(9,730)	(9,870)	(6,630)		
1.5 m (5 ft.)					9060 (19,570)	6820 (14,670)	6470 (14,010)	4310 (9,280)	4620 (9,930)	3000 (6,440)		
Ground Line					9290	6580	6530	4170	4550	2930		
			(9,010)	9,010	(20,130)	(14,140)	(14,030)	(8,960)	(9,770)	(6,290)		
-1.5 m (-5 ft.)			7920	7920	8650	6520	6300	4110				
			(18,050)	(18,050)	(18,740)	(14,000)	(13,600)	(8,840)				
-3.0 m (-10 ft.)			9560	9560	7140	6590	5100	4150				
			(20,680)	(20,680)	(15,380)	(14,150)	(10,810)	(8,950)				
With monoblock boom and 4 outrigge	ers down											
6.0 m (20 ft.)							4420 (9,420)	4420 (9,420)				
4.5 m (I5 ft.)					6430 (13,740)	6430 (13,740)	5320 (11,560)	5320 (11,560)	3330	3330		
3.0 m (10 ft.)					7910	7910	5930	5280	4870	3620		
					(17,040)	(17,040)	(12,850)	(11,350)	(9,870)	(7,760)		
1.5 m (5 ft.)					9060	8100	6470	5060	4830	3520		
					(19,570)	(17,410)	(14,010)	(10,890)	(10,370)	(7,560)		
Ground Line			(9,010)	(9,010)	9290 (20,130)	7850 (16,850)	6660 (14,420)	4910 (10,560)	4750 (10,210)	3450 (7,410)		
-1.5 m (-5 ft.)			7920	7920	8650	7780	6300	4850	(10,210)	(1,710)		
			(18,050)	(18,050)	(18,740)	(16,700)	(13,600)	(10,430)				
-3.0 m (-10 ft.)			9560 (20,680)	9560 (20,680)	7140 (15,380)	7140 (15,380)	5100 (10,810)	4900 (10,550)				

ZX190W-5 SPECS

Lift Charts		ZX190W-5										
Boldface type indicates hydraulic												rm, and
standard counterweight; and situ	ated on firm, level, unifor 1.5 m (do not exceed 8 (10 ft.)	/% of hydraulic (4.5 m		of weight neede		e. All lift capaciti 7.5 m (9.0 m (30 tt)
Load Point Height Horizontal Distance from	1.5 m ((3 H. <i>)</i>	3.U M	(IU II. <i>)</i>	4.5 m	(13 H. <i>)</i>	6.U M	(20 π.)	7.5 M ((23 Π. <i>)</i>	9.0 m	30 II. <i>)</i>
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
With 2-piece boom, rear outrigge	rs and front blade down											
6.0 m (20 ft.)							3980 (8,790)	3980 (8,790)				
4.5 m (15 ft.)					4860 (10,510)	4860 (10,510)	4330 (9,450)	4330 (9,450)	2820	2820		
3.0 m (10 ft.)			8700 (19,130)	8700 (19,130)	6500 (13,970)	6500 (13,970)	5050 (10,960)	4710 (10,130)	4430 (8,980)	3210 (6,840)		
I.5 m (5 ft.)			10 630 (23,330)	10 630 (23,330)	8100 (17,470)	72I0 (15,500)	5830 (12,630)	4670 (10,070)	4740 (10,190)	3140 (6,700)		
Ground Line	8670 (19,420)	8670 (19,420)	12 770 (28,000)	12 770 (28,000)	9010 (19,490)	7250 (15,600)	6400 (13,860)	4710 (10,070)	4670 (9,980)	3030 (6,460)		
-1.5 m (-5 ft.)	13 900 (31,210)	13 900 (31,210)	14 840 (32,210)	14 660 (31,430)	9230 (19,990)	7490 (16,090)	6610 (14,310)	4460 (9,530)				
-3.0 m (-10 ft.)	22 710 (51,650)	22 710 (51,650)	15 310 (33,190)	15 260 (33,000)	9590 (20,730)	7I30 (I5,250)	6220 (13,080)	4280 (9,170)				
With two-piece boom and 4 outrig	<u>-</u>			` ' '			, ,					
6.0 m (20 ft.)							3980 (8,790)	3980 (8,790)				
4.5 m (15 ft.)					4860 (10,510)	4860 (10,510)	4330 (9,450)	4330 (9,450)	2820	2820		
3.0 m (10 ft.)			8700 (19,130)	8700 (19,130)	6500 (13,970)	6500 (13,970)	5050 (10,960)	5050 (10,960)	4430 (8,980)	3730 (7,970)		
1.5 m (5 ft.)			10 630 (23,330)	10 630 (23,330)	8100 (17,470)	8100 (17,470)	5830 (12,630)	5310 (11,430)	4770 (10,390)	3660 (7,820)		
Ground Line	8670 (19,420)	8670 (19,420)	12 770 (28,000)	12 770 (28,000)	9010 (19,490)	8280 (17,820)	6400 (13,860)	5370 (11,600)	4860 (10,410)	3560 (7,610)		
-1.5 m (-5 ft.)	13 900 (31,210)	13 900 (31,210)	14 840 (32,210)	14 840 (32,210)	9230 (19,990)	8490 (18,300)	6610 (14,310)	5230 (II,I90)				
-3.0 m (-10 ft.)	22 710 (51,650)	22 710 (51,650)	15 310 (33,190)	15 310 (33,190)	9590 (20,730)	8450 (18,070)	6220 (13,080)	5040 (10,810)				

SPEGS

Buckets ZX190W-5

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add I50 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

									Arm D	ig Force			Number
Type Bucket	Bucket Width		Bucket	Capacity	Bucket	Weight	Bucket	Dig Force	2.71 m (8	3 ft. 11 in.)	Bucket T	ip Radius	of Teeth
	mm	in.	m³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
General Purpose, High Capacity	762	30	0.60	0.79	650	1,432	122.7	27,582	91.2	20,512	1473	58.0	4
	914	36	0.76	1.00	735	1,621	122.7	27,582	91.2	20,512	1473	58.0	5
	1067	42	0.93	1.22	812	1,790	122.7	27,582	91.2	20,512	1473	58.0	5
	1219	48	1.09	1.43	896	1,976	122.7	27,582	91.2	20,512	1473	58.0	6
Heavy Duty	610	24	0.40	0.52	543	1,197	123.6	27,780	91.5	20,563	1463	57.61	4
	762	30	0.54	0.71	621	1,369	123.5	27,768	91.5	20,561	1463	57.61	4
	914	36	0.69	0.90	707	1,559	123.5	27,768	91.5	20,561	1463	57.61	5
	1067	42	0.83	1.09	785	1,731	123.5	27,768	91.5	20,561	1463	57.61	5
	1219	48	0.99	1.29	871	1,921	123.5	27,768	91.5	20,561	1463	57.61	6
Heavy Duty, High Capacity	610	24	0.43	0.56	646	1,424	122.7	27,582	91.2	20,512	1473	58.0	4
	762	30	0.58	0.76	723	1,593	122.7	27,582	91.2	20,512	1473	58.0	4
	914	36	0.74	1.97	808	1,782	122.7	27,582	91.2	20,512	1473	58.0	5
	1067	42	0.91	1.19	885	1,951	122.7	27,582	91.2	20,512	1473	58.0	5
	1219	48	1.06	1.39	577	1,271	122.7	27,582	91.2	20,512	1473	58.0	6
Ditching	1524	60	0.87	1.14	577	1,271	170.3	38,280	101.3	22,778	1057	41.62	0
General Purpose, High Capacity	1219	48	1.09	1.43	577	1,271	122.7	27,582	91.2	20,512	1473	57.99	6

ZX230W-5 SPECS

ZX230W-5

Engine	ZX23UW-5			
Manufacturer and Model	Isuzu 4HKI			
Non-Road Emission Standard	EPA Interim Tier 4/EU St	age IIIB		
Net Rated Power (ISO 9249)	119 kW (159 hp) @ 2,000) rpm		
Cylinders	4			
Displacement	5.2 L (317 cu. in.)			
Off-Level Capacity	60% (31 deg.)			
Aspiration	Turbocharged, air-to-air	charge-air cooler		
Cooling				
High-efficiency, direct-drive suction-typ	e fan			
Powertrain				
2-speed propel with creeper mode and a	utomatic shift			
Travel Speed (Maximum)				
Creeper	2.9 km/h (1.8 mph)			
Low	7.4 km/h (4.6 mph)			
High	27.5 km/h (17.1 mph)			
Front Axle	All-wheel drive; can be lo	ocked hydraulically in any positio	n	
Oscillation	±6 deg.			
Brakes	Maintenance-free wet-d	isc brakes on front and rear axles	; fully hydraulic service brakes	
Tires	Standard size, dual-trac	tion-type II.00-20 I6PR		
Drawbar Pull	II,II5 kgf (24,504 lbf)			
Hydraulics				
Main Pumps	2 variable-displacement	axial-piston pumps		
Pump Flow (maximum x 2)	189 L/m (49.9 gpm)			
System Operating Pressure				
Circuits				
Implement	34 300 kPa (4,975 psi)			
Travel	35 300 kPa (5,120 psi)			
Swing	30 200 kPa (4,380 psi)			
Power Boost	38 000 kPa (5,511 psi)			
Controls	Pilot levers, short-stroke	e, low-effort hydraulic pilot contro	ols with shutoff lever	
Cylinders				
Heat treated, chrome-plated, polished cy	linder rods, hardened steel (replace)	eable bushings) pivot pins		
	Bore	Rod Diameter	Stroke	
Monoblock Boom (2)	125 mm (4.9 in.)	85 mm (3.3 in.)	1241 mm (48.9 in.)	
2-Piece Boom (2)	130 mm (5.1 in.)	85 mm (3.3 in.)	1024 mm (40.3 in.)	
Positioning, 2-Piece Boom (2)	180 mm (7.1 in.)	IIO mm (4.3 in.)	680 mm (26.8 in.)	
Arm (I)	135 mm (5.3 in.)	95 mm (3.7 in.)	1475 mm (58.1 in.)	
B 1 (1)	45 (45)	00 (01)	(000 (4) 7:)	

80 mm (3.1 in.)

1060 mm (41.7 in.)

Bucket (I) Electrical

Voltage 24 volt
Number of Batteries (12 volt) 2
Alternator Rating 50 amp

Lights (6) Headlights (2), top of cab (2), rear of cab (1), and boom (1)

115 mm (4.5 in.)

Driving Lights Headlights (2), turn signals and hazard lights, brake lights and side marker lights

Swing Mechanism

Swing Speed II.2 rpm

Swing Torque 6I 500 Nm (45,360 lb.-ft.)

SPECS

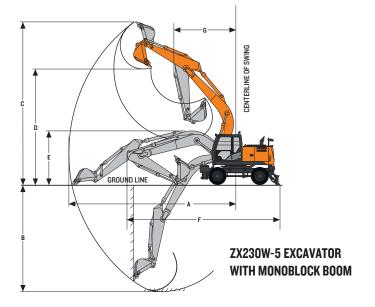
Serviceability	ZX230W-5	
Refill Capacities		
Fuel Tank	400 L (106 gal.)	
Engine Coolant	25 L (7 gal.)	
Engine Oil with Filter	23 L (6 gal.)	
Hydraulic Tank	130 L (34 gal.)	
Hydraulic System	270 L (71 gal.)	
Swing Drive	6.2 L (6.6 qt.)	
Transmission	2.5 L (2.6 qt.)	
Axle		
Front	II L (2.9 gal.)	
Rear	I4.5 L (3.8 gal.)	
Front and Rear Hubs	2.5 L x 2 (2 x 2.6 qt. x 2)	
Operating Weights		
With full fuel tank; 79-kg (175 lb.) oper	rator; 0.8-m³ (1.04 cu. yd.), 900-mm (35 in.), 660-kg (1,455 lb.) general-purpose bucket; 2.91-m (9 ft. 7 in.) arm; standard gauge and 4	500-

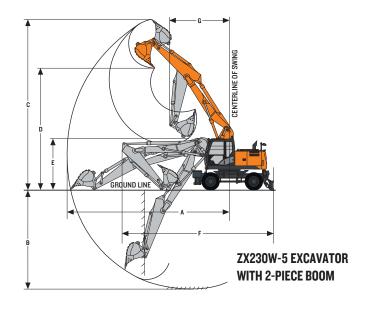
With full fuel tank; 79-kg (175 lb.) operator; 0.8-m³ (1.04 cu. yd.), 900-mm (35 in.), 660-kg (1,455 lb.) general-purpose bucket; 2.91-m (9 ft. 7 in.) arm; standard gauge and 4500-kg (9,921 lb.) counterweight

Monoblock Boom

2-Piece Boom

Fro	ont Outrigger and Rear Outrigger	23 600 kg (52,030 lb.)	24 I40 kg (53,220 lb.)
Fro	ont Blade and Rear Outrigger	23 290 kg (51,350 lb.)	23 830 kg (52,540 lb.)
Ор	erating Dimensions		
		Monoblock Boom	2-Piece Boom
	Arm Digging Force		
	SAE	110 kN (24,729 lb.)	IIO kN (24,729 lb.)
	ISO	114 kN (25,628 lb.)	II4 kN (25,628 lb.)
	Bucket Digging Force		
	SAE	141.0 kN (31,698 lb.)	141.0 kN (31,698 lb.)
	ISO	158.0 kN (35,520 lb.)	158.0 kN (35,520 lb.)
A	Maximum Reach	10.28 m (33 ft. 9 in.)	IO.03 m (32 ft. II in.)
В	Maximum Digging Depth	6.31 m (20 ft. 8 in.)	6.14 m (20 ft. 2 in.)
C	Maximum Cutting Height	10.25 m (33 ft. 7 in.)	10.36 m (34 ft.)
D	Maximum Dumping Height	7.38 m (24 ft. 3 in.)	7.43 m (24 ft. 5 in.)
E	Overall Height	3.19 m (10 ft. 6 in.)	3.32 m (10 ft. II in.)
F	Overall Length		
	Front Outrigger and Rear Outrigger	9.96 m (32 ft. 8 in.)	9.64 m (3l ft. 7 in.)
	Front Blade and Rear Outrigger	9.96 m (32 ft. 8 in.)	9.64 m (31 ft. 7 in.)
G	Minimum Swing Radius	3.55 m (II ft. 8 in.)	3.42 m (II ft. 3 in.)





ZX230W-5 SPECS

		ZX230W-5			_	\
,	ith standard gauge and 2.9I-m (9 ft. 7 in.) arm;					
u	trigger configuration, and for the front blade an	00 0				
		Monoblock Boom	2-Piece Boom	U		
	Overall Length	9.96 m (32 ft. 8 in.)				
	Overall Length		9.64 m (31 ft. 8 in.)			
	Overall Height	3.19 m (10 ft. 6 in.)			G	
	Overall Height		3.32 m (10 ft. 11 in.)			
	Rear-End Swing Radius	2.89 m (9 ft. 6 in.)	2.89 m (9 ft. 6 in.)		0	,
	Engine Cover Height	2.64 m (8 ft. 8 in.)	2.64 m (8 ft. 8 in.)			
	Counterweight Clearance	1.25 m (4 ft. 1 in.)	1.25 m (4 ft. 1 in.)			
	Overall Width of Upperstructure	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. II in.)			
i	Overall Height of Cab	3.19 m (10 ft. 6 in.)	3.19 m (10 ft. 6 in.)			'
	Overall Width of Tires	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)	-		R
	Minimum Ground Clearance	0.35 m (14 in.)	0.35 m (14 in.)			
	Wheelbase	2.75 m (9 ft. 0 in.)	2.75 m (9 ft. 0 in.)		le en	
	Swing Center to Rear Axle	1.35 m (4 ft. 5 in.)	1.35 m (4 ft. 5 in.)			
	Front Overhang				∄ 록 	
	Front Outrigger and Rear Outrigger	1.38 m (4 ft. 6 in.)	1.38 m (4 ft. 6 in.)		U	
	Front Blade and Rear Outrigger	1.34 m (4 ft. 5 in.)	1.34 m (4 ft. 5 in.)			
	Rear Overhang	1.09 m (3 ft. 7 in.)	1.09 m (3 ft. 7 in.)		A	
	Maximum Blade Lower	0.21 m (8 in.)	0.21 m (8 in.)			
	Overall Height of Blade	0.60 m (24 in.)	0.60 m (24 in.)		80-	
		0.38 m (15 in.)	0.38 m (15 in.)			
		2.73 m (8 ft. II in.)	2.73 m (8 ft. II in.)		46	
		2.74 m (8 ft. I2 in.)	2.74 m (8 ft. I2 in.)			
	Overall Width with Outrigger Extended	3.91 m (12 ft. 10 in.)	3.91 m (12 ft. 10 in.)	_		
,	Overall Height of Boom (traveling)	3.98 m (13 ft. 1 in.)	3.98 m (13 ft. 1 in.)		s	-
,		3.49 m (II ft. 5 in.)	3.49 m (II ft. 5 in.)			
				6		
					L N	

SPECS

Lift Charts		ZX230W-5										
Boldface type indicates hydraulically li		ntface type ind										arm, and
standard counterweight; and situated	on firm, level, unifor	m supporting s	urface. Figures	do not exceed 8	7% of hydraulic	capacity or 75%	of weight neede	d to tip machin	e. All lift capaciti	ies are based on	ISO 10567.	
Load Point Height	1.5 m (5 ft.)	3.0 m	(10 ft.)	4.5 m	(15 ft.)	6.0 m	(20 ft.)	7.5 m	(25 ft.)	9.0 m	(30 ft.)
Horizontal Distance from												
Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Si
Vith monoblock boom, rear outriggers	and front blade dow	n										
6.0 m (20 ft.)							5250	5250	4460	4460		
. = (= .)							(11,490)	(11,490)	(8,700)	(8,700)		
4.5 m (I5 ft.)					7340	7340	6080	6080	5490	4530		
2.0 (10.4)					(15,750)	(15,750)	(13,190)	(13,190)	(11,990)	(9,720)		
3.0 m (10 ft.)					10 010 (21,440)	10 010 (21,440)	7260	6310 (13,580)	6030	4390 (9,450)		
1.5 m (5 ft.)					12 130	9500	(15,690) 8360	6040	(13,100) 6580	4260		
1.5 III (5 11.)					(26,120)	(20,440)	(18,070)	(13,000)	(14,180)	(9,160)		
Ground Line					12 910	9260	9020	5870	6490	4160		
Ground Line					(27,900)	(19,890)	(19,500)	(12,620)	(13,950)	(8,960)		
-1.5 m (-5 ft.)			7790	7790	12 610	9220	9040	5810	6460	4130		
			(17,710)	(17,710)	(27,290)	(19,800)	(19,540)	(12,490)	(13,890)	(8,900)		
-3.0 m (-10 ft.)			13 470	13 470	11 360	9320	8230	5860				
			(30,720)	(30,720)	(24,520)	(20,020)	(17,690)	(12,610)				
-4.5 m (-15 ft.)					8620	8620						
					(18,240)	(18,240)						
Nith monoblock boom and 4 outriggers	s down											
6.0 m (20 ft.)							5250	5250	4460	4460		
							(11,490)	(11,490)	(8,700)	(8,700)		
4.5 m (I5 ft.)					7340	7340	6080	6080	5490	5290		
20 (104)					(15,750)	(15,750)	(13,190)	(13,190)	(11,990)	(11,370)		
3.0 m (10 ft.)					(3) (440)	(3) 440)	7260	7260	6030	5160		
1.5 m (5 ft.)					(21,440) 12 130	(21,440) II 440	(15,690) 8360	(15,690) 7140	(13,100) 6580	(II,090) 5020		
1.5 III (5 11.)					(26,120)	(24,570)	(18,070)	(15,370)	(14,270)	(10,800)		
Ground Line					12 910	11180	9020	6960	6730	4920		
diodila Ellic					(27,900)	(23,980)	(19,500)	(14,980)	(14,470)	(10,580)		
-1.5 m (-5 ft.)			7790	7790	12 610	11 140	9040	6900	6700	4890		
,			(17,710)	(17,710)	(27,290)	(23,890)	(19,540)	(14,840)	(14,420)	(10,530)		
-3.0 m (-I0 ft.)			13 470	13 470	11 360	11 250	8230	6950	() -)	(-,,		
, ,			(30,720)	(30,720)	(24,520)	(24,120)	(17,690)	(14,960)				
-4.5 m (-15 ft.)					8620	8620						
					(18,240)	(18,240)						
With 2-piece boom, rear outriggers and	d front blade down											
7.5 m (25 ft.)							4340	4340				
							(7,850)	(7,850)				
6.0 m (20 ft.)							5560	5560				
							(12,100)	(12,100)		4200		
4.5 m (I5 ft.)					6660	6660	6330	6330	5180	4700		
0.0 (10.6)				44.000	(14,390)	(14,390)	(13,770)	(13,770)	(10,650)	(10,060)		
3.0 m (10 ft.)			(04.500)	(11 090	9610	9610	7310	6690	6210	4690		
1.5 m (5 ft.)			(24,530) 13 990	(24,530) 13 990	(20,660) II 700	(20,660) 10 290	(15,840) 8320	(14,410) 6630	(13,540) 6660	(10,020) 4600		
1.5 111 (5 11.)			(30,920)	(30,920)	(25,220)	(22,130)	(18,010)	(14,290)	(14,460)	(9,840)		
Ground Line	8310	8310	(50,920)	16 790	12 710	10 320	8980	6660	6820	4470		
G. Gario Enio	(18,590)	(18,590)	(36,730)	(36,730)	(27,490)	(22,180)	(19,450)	(14,340)	(14,610)	(9,570)		
-1.5 m (-5 ft.)	13 890	13 890	20 290	20 290	12 880	10 570	9160	6490	6690	4340		
\/	(31,150)	(31,150)	(44,280)	(44,280)	(27,880)	(22,690)	(19,830)	(13,910)	(14,150)	(9,290)		
-3.0 m (-I0 ft.)	22 540	22 540	21 550	21 550	13 250	10 370	9010	6250	, ,,	(-,)		
	(51,050)	(51,050)	(46,640)	(46,640)	(28,770)	(22,180)	(19,160)	(13,400)				
-4.5 m (-I5 ft.)	31 020	31 020	19 540	19 540								
	(69,820)	(69,820)	(41,120)	(41,120)								
Vith 2-piece boom and 4 outriggers do	own											
7.5 m (25 ft.)							4340	4340				
, .							(7,850)	(7,850)				
6.0 m (20 ft.)							5560	5560				
(17.4.)							(12,100)	(12,100)				
4.5 m (15 ft.)					6660	6660	6330	6330	5180	5180		
3.0 m (IO ft.)					(14,390)	(14,390)	(13,770)	(13,770)	(10,650)	(10,650)		
			(04.500)	(04.500)	9610	9610	7310	7310	6210	5440		
3.0 III (10 II.)			(24,530)	(24,530)	(20,660)	(20,660)	(15,840)	(15,840)	(13,540)	(11,640)		
, ,			13 990	13 990	11 700	11 700 (25,220)	8320 (18,010)	7600	(14.460)	5360		
1.5 m (5 ft.)				(00.000)				(16,370)	(14,460)	(11,480)		
I.5 m (5 ft.)	0210	0210	(30,920)	(30,920)	(25,220)							
, ,	8310 (18 590)	8310 (18 590)	(30,920) 16 790	16 790	12 710	11 930	8980	7640	6970	5240		
I.5 m (5 ft.) Ground Line	(18,590)	(18,590)	(30,920) 16 790 (36,730)	16 790 (36,730)	12 710 (27,490)	II 930 (25,640)	8980 (19,450)	7640 (16,460)	6970 (15,050)	5240 (II,2I0)		
I.5 m (5 ft.)	(18,590) 13 890	(18,590) 13 890	(30,920) 16 790 (36,730) 20 290	16 790 (36,730) 20 290	12 710 (27,490) 12 880	11 930 (25,640) 12 130	8980 (19,450) 9160	7640 (16,460) 7610	6970 (15,050) 6810	5240 (11,210) 5100		
I.5 m (5 ft.) Ground Line -I.5 m (-5 ft.)	(18,590) 13 890 (31,150)	(18,590) 13 890 (31,150)	(30,920) 16 790 (36,730) 20 290 (44,280)	16 790 (36,730) 20 290 (44,280)	12 710 (27,490) 12 880 (27,880)	11 930 (25,640) 12 130 (26,080)	8980 (19,450) 9160 (19,830)	7640 (16,460) 7610 (16,300)	6970 (15,050)	5240 (II,2I0)		
I.5 m (5 ft.) Ground Line	(18,590) 13 890 (31,150) 22 540	(18,590) 13 890 (31,150) 22 540	(30,920) 16 790 (36,730) 20 290 (44,280) 21 550	16 790 (36,730) 20 290 (44,280) 21 550	12 710 (27,490) 12 880 (27,880) 13 250	(25,640) (25,640) (26,080) (26,080)	8980 (19,450) 9160 (19,830) 9010	7640 (16,460) 7610 (16,300) 7370	6970 (15,050) 6810	5240 (11,210) 5100		
I.5 m (5 ft.) Ground Line -I.5 m (-5 ft.)	(18,590) 13 890 (31,150)	(18,590) 13 890 (31,150)	(30,920) 16 790 (36,730) 20 290 (44,280)	16 790 (36,730) 20 290 (44,280)	12 710 (27,490) 12 880 (27,880)	11 930 (25,640) 12 130 (26,080)	8980 (19,450) 9160 (19,830)	7640 (16,460) 7610 (16,300)	6970 (15,050) 6810	5240 (11,210) 5100		

ZX230W-5 SPECS

Buckets ZX230W-5

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with TK-Series Bucket Teeth standard. Replaceable cutting edges and a variety of teeth are available through John Deere Parts. Optional side cutters add I50 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

									Arm D	ig Force			Number
Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight		Bucket Dig Force		2.91 m (9 ft. 7 in.)		Bucket Tip Radius		of Teeth
	mm	in.	m³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	mm	in.	
General Purpose, High Capacity	762	30	0.60	0.79	650	1,432	153.5	34,517	110.6	24,855	1473	58.0	4
	914	36	0.76	1.00	735	1,621	153.2	34,450	110.6	24,855	1473	58.0	5
	1067	42	0.93	1.22	812	1,790	153.2	34,450	110.6	24,855	1473	58.0	5
	1219	48	1.09	1.43	896	1,976	153.5	34,517	110.6	24,855	1473	58.0	6
Heavy Duty	610	24	0.40	0.52	543	1,197	154.6	34,758	110.8	24,913	1463	57.61	4
	762	30	0.54	0.71	621	1,369	154.6	34,751	110.8	24,913	1463	57.61	4
	914	36	0.69	0.90	707	1,559	154.6	34,751	110.8	24,913	1463	57.61	5
	1067	42	0.83	1.09	785	1,731	154.6	34,751	110.8	24,913	1463	57.61	5
	1219	48	0.99	1.29	871	1,921	154.6	34,751	110.8	24,913	1463	57.61	6
Heavy Duty, High Capacity	610	24	0.43	0.56	646	1,424	153.5	34,517	110.6	24,855	1473	58.0	4
	762	30	0.58	0.76	723	1,593	153.5	34,517	110.6	24,855	1473	58.0	4
	914	36	0.74	1.97	808	1,782	153.5	34,517	110.6	24,855	1473	58.0	5
	1067	42	0.91	1.19	885	1,951	153.5	34,517	110.6	24,855	1473	58.0	5
	1219	48	1.06	1.39	970	2,139	153.5	34,517	110.6	24,855	1473	58.0	6
Ditching	1524	60	0.87	1.14	577	1,271	214.0	48,102	122.2	27,463	1057	41.62	0
General Purpose, High Capacity	1219	48	1.09	1.43	577	1,271	153.5	34,517	110.6	24,855	1473	57.99	6

SPECS

ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special kit

190W 23	30W	Engine	190W 230V	V Front Attachments	190W 230W	Operator's Station (continued)
•	•	Auto-idle system	•	5.5-m (18 ft. 0 in.) monoblock boom	• •	High/low travel mode with creeper range
•	•	Automatic belt-tension device		with 2.71-m (8 ft. 11 in.) arm	• •	Multifunction, color LCD monitor with:
•	•	Batteries (2 - I2 volt)	•	5.68-m (18 ft. 8 in.) monoblock boom		Diagnostic capability / Multiple-language
•	•	Coolant recovery tank		with 2.91-m (9 ft. 7 in.) arm		capabilities / Maintenance tracking / Clock /
•	•	Dual element dry-type air filter	A	Variable-geometry, 2-piece boom		System monitoring with alarm features:
•	•	Electronic engine control		with 2.7I-m (8 ft. II in.) arm		Auto-idle indicator, Auto-shutdown indicator,
•	•	Enclosed fan guard (conforms to SAE JI308)	_	Variable-geometry, 2-piece boom		brake pressure audible alarm, engine air
•	•	Engine coolant to -37 deg. C (-34 deg. F)		with 2.91-m (9 ft. 7 in.) arm		cleaner restriction indicator light, engine
•	•	Fuel filter with water separator	• •	Centralized lubrication system		check, engine coolant temperature indicator
•	•	Full-flow oil filter	• •	Dirt seals on all bucket pins		light with audible alarm, engine oil pressure
•	•	Turbocharger with charge air cooler	A A	Buckets: Ditching / General purpose /		indicator light with audible alarm, low-
•	•	500-hour engine-oil-change interval		General-purpose high capacity / Heavy		alternator-charge indicator light, low-fuel
•	•	Programmable auto-shutdown		duty / Heavy-duty high capacity / Side		indicator light, fault-code alert indicator,
		Hydraulic System		cutters and teeth		fuel-rate display, water-infuel light,
•	•	Reduced-drift valve for boom down, arm in		Operator's Station		wiper-mode indicator, worklights-on indicator,
•	•	Auxiliary hydraulic valve section	• •	Adjustable independent-control positions		and work-mode indicator
•	•	Spring-applied, hydraulically released		(levers-to-seat, seat-to-pedals)	• •	Motion alarm with cancel switch (conforms
		automatic swing brake	• •	AM/FM radio		to SAE J994)
•	•	Brake valves for travel circuits	• •	Auto climate control/air conditioner	• •	Power-boost switch on right control lever
•	•	Individual control of outriggers		with heater and pressurizer	• •	SAE 2-lever control pattern
A	_	Auxiliary hydraulic lines	• •	Built-in Operator's Manual storage	• •	Seat belt, 51 mm (2 in.), retractable
A	A	Auxiliary pilot and electric controls		compartment and manual	A A	Seat belt, 76 mm (3 in.), non-retractable
•	•	Hydraulic filter restriction indicator	• •	Cell-phone power outlet, I2 volt	• •	Tinted glass
•	•	Low-flow/medium-pressure-assist hydraulics	• •	Coat hook	• •	Transparent tinted overhead hatch
		Undercarriage	• •	Deluxe suspension cloth seat with IOO-mm	• •	Tilting steering column
•	•	Brakes, 4 wheel, maintenance free, wet disc		(4 in.) adjustable armrests	• •	Sun visor
•	•	Creeper speed range	• •	Floor mat	• •	Windshield washer/wiper with constant and
•	•	Front axle, oscillating, lockable	• •	Front windshield wiper with intermittent		intermittent speeds
A	_	Front blade and rear outriggers (2)		speeds	A A	Window vandal protection covers
A	A	Outriggers (4)	• •	Gauges (illuminated): Engine coolant /		Electrical
•	•	Parking brake		Fuel /Brake pressure	• •	50-amp alternator
•		Dual traction-type tires, IO.00-20, I4PR	• •	Horn, electric	• •	Blade-type multi-fused circuits
		with spacer	• •	Hour meter, electric	• •	Positive-terminal battery covers
	•	Dual traction-type tires, I0.00-20, I6PR	• •	Hydraulic shutoff lever, all controls	• •	ZXLink™ Ultimate wireless communication
		with spacer	• •	Hydraulic warm-up control		system (available in specific countries; see
•	•	Toolbox on left chassis	• •	Interior light		your dealer for details)
		Upperstructure	• •	Large cup holder		Lights
•	•	Right- and left-hand mirrors	•	Machine Information Center (MIC)	• •	Headlights (2)
•	•	Vandal locks with ignition key: Cab door / Fuel cap / Service doors	• •	Mode selectors (illuminated): Power modes – three / Work mode – one	• •	Work lights, top of cab (2), rear of cab (1), and boom (1)
					• •	Turn signals / Hazard lights
					• •	Brake lights
					• •	Side marker lights

See your Hitachi dealer for further information.

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