

ZAXIS | DASH-5 UTILITY-CLASS EXCAVATORS

ZX350LC-5

202 kW (271 hp)

ZX350LC



HITACHI

Engine		ZX350LC-5	
Manufacturer and Model	Isuzu 6HKIXYSA-S2		
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB		
Net Rated Power (ISO 9249)	202 kW (271 hp) @ 1,900 rpm		
Cylinders	6		
Displacement	7.79 L (475 cu. in.)		
Off Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
Direct-driven, high-efficiency, low-noise, suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.2 km/h (2.0 mph)		
High	5.0 km/h (3.1 mph)		
Drawbar Pull	29 200 kg (64,375 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps		2 variable-displacement pumps	
Maximum Rated Flow	288 L/m (76.1 gpm) x 2		
Pilot Pump		One gear	
Maximum Rated Flow	34 L/m (8.9 gpm)		
Pressure Setting	3900 kPa (566 psi)		
System Operating Pressure			
Circuits			
Implement	34 300 kPa (4,975 psi)		
Travel	35 500 kPa (5,149 psi)		
Swing	33 300 kPa (4,830 psi)		
Power Boost	38 000 kPa (5,511 psi)		
Controls		Pilot levers, short-stroke, low-effort hydraulic pilot controls with shutoff lever	
Cylinders			
	Bore	Rod Diameter	Stroke
Boom (2)	145 mm (5.7 in.)	100 mm (3.9 in.)	1520 mm (59.8 in.)
Arm (1)	170 mm (6.7 in.)	115 mm (4.5 in.)	1740 mm (68.5 in.)
Bucket (1)	140 mm (5.5 in.)	95 mm (3.7 in.)	1250 mm (49.2 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	1,400 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen (one mounted on boom, one on frame)		
Undercarriage			
Rollers (each side)			
Carrier	2		
Track	8		
Shoes, Triple Semi-Grousers (each side)	48		
Track			
Adjustment	Hydraulic		
Guides	Front, center, and rear		
Chain	Sealed and lubricated		
Ground Pressure			
800-mm (32 in.) Triple Semi-Grouser Shoes	52.6 kPa (7.63 psi)		
Swing Mechanism			
Speed	10.7 rpm		
Torque	120 000 Nm (88,507 lb.-ft.)		

DASH-5

Serviceability ZX350LC-5

Refill Capacities

Fuel Tank	630 L (166 gal.)
Cooling System	40 L (11 gal.)
Engine Oil with Filter	48 L (13 gal.)
Hydraulic Tank	180 L (48 gal.)
Hydraulic System	290 L (77 gal.)
Swing Drive	11.8 L (12.5 qt.)
Gearbox	
Propel (each)	8.5 L (9.0 qt.)
Pump Drive	1.1 L (1.2 qt.)

Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 1.76-m³ (2.3 cu. yd.), 1370-mm (54 in.), 1160-kg (2,557 lb.) bucket; 4.0-m (13 ft. 1 in.) arm; 6928-kg (15,274 lb.) counterweight; and 800-mm (32 in.) triple semi-grouser shoes

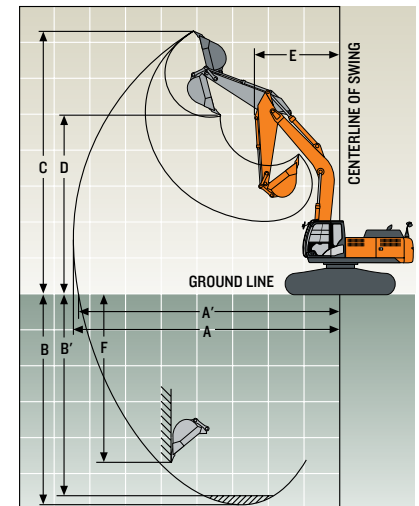
Operating Weight 34 590 kg (76,258 lb.)

Optional Components

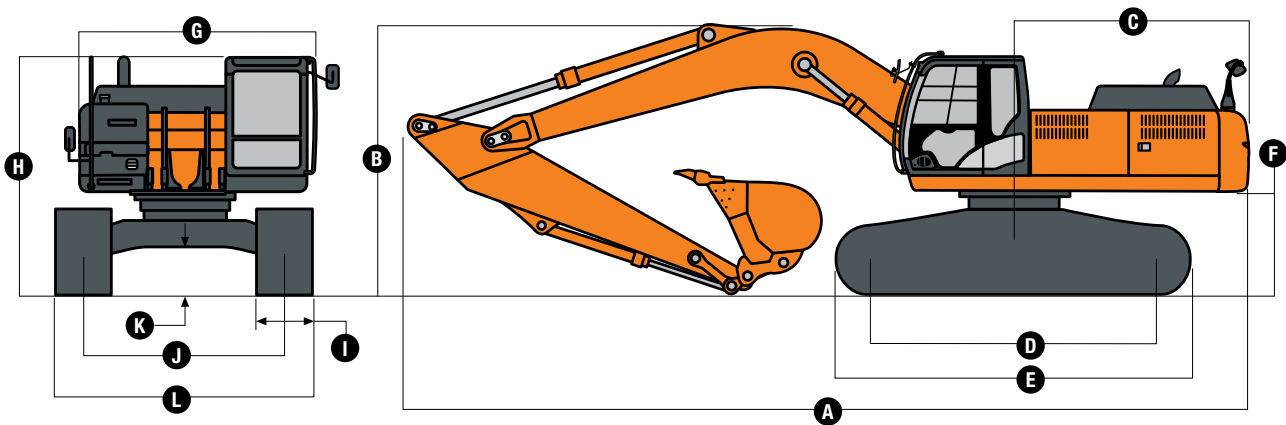
Undercarriage w/ Triple Semi-Grouser Shoes	
800 mm (32 in.)	12 710 kg (28,020 lb.)
One-Piece Boom (with arm cylinder)	3031 kg (6,682 lb.)
Arm with Bucket Cylinder and Linkage	
2.66 m (8 ft. 9 in.)	1649 kg (3,635 lb.)
3.2 m (10 ft. 6 in.)	1758 kg (3,876 lb.)
4.0 m (13 ft. 1 in.)	1898 kg (4,184 lb.)
Boom Lift Cylinders (2) Total Weight	624 kg (1,376 lb.)
1.76 m ³ (2.3 cu. yd.), 1370 mm (54 in.)	
Heavy-Duty Bucket	1160 kg (2,557 lb.)
Counterweight, Standard	6928 kg (15,274 lb.)

Operating Dimensions

Arm Length	2.66 m (8 ft. 9 in.)	3.2 m (10 ft. 6 in.)	4.0 m (13 ft. 1 in.)
Arm Digging Force			
SAE	204.2 kN (45,914 lb.)	177.6 kN (39,930 lb.)	152.6 kN (34,314 lb.)
ISO	222 kN (49,908 lb.)	185 kN (41,590 lb.)	159 kN (35,745 lb.)
Bucket Digging Force			
SAE	225.2 kN (50,628 lb.)	225.2 kN (50,628 lb.)	225.2 kN (50,628 lb.)
ISO	246 kN (55,303 lb.)	246 kN (55,303 lb.)	246 kN (55,303 lb.)
A Maximum Reach	10.57 m (34 ft. 8 in.)	11.10 m (36 ft. 5 in.)	11.86 m (38 ft. 11 in.)
A' Maximum Reach at Ground Level	10.36 m (34 ft.)	10.89 m (35 ft. 9 in.)	11.67 m (38 ft. 3 in.)
B Maximum Digging Depth	6.84 m (22 ft. 5 in.)	7.38 m (24 ft. 3 in.)	8.18 m (26 ft. 10 in.)
B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom	6.64 m (21 ft. 9 in.)	7.21 m (23 ft. 8 in.)	8.04 m (26 ft. 5 in.)
C Maximum Cutting Height	9.99 m (32 ft. 9 in.)	10.36 m (34 ft.)	10.75 m (35 ft. 3 in.)
D Maximum Dumping Height	6.94 m (22 ft. 9 in.)	7.24 m (23 ft. 9 in.)	7.63 m (25 ft.)
E Minimum Swing Radius	4.61 m (15 ft. 1 in.)	4.46 m (14 ft. 8 in.)	4.47 m (14 ft. 8 in.)
F Maximum Vertical Wall	5.51 m (18 ft. 1 in.)	6.42 m (21 ft. 1 in.)	7.27 m (23 ft. 10 in.)



Machine Dimensions	ZX350LC-5	
A Overall Length		
2.66 m (8 ft. 9 in.)	11.33 m (37 ft. 2 in.)	
3.2 m (10 ft. 6 in.)	11.20 m (36 ft. 9 in.)	
4.0 m (13 ft. 1 in.)	11.29 m (37 ft. 1 in.)	
B Overall Height		
2.66 m (8 ft. 9 in.)	3.47 m (11 ft. 5 in.)	
3.2 m (10 ft. 6 in.)	3.27 m (10 ft. 9 in.)	
4.0 m (13 ft. 1 in.)	3.60 m (11 ft. 10 in.)	
C Rear-End Length/Swing Radius		
	3.60 m (11 ft. 10 in.)	
D Distance Between Idler/Sprocket Centerline		
	4.05 m (13 ft. 3 in.)	
E Undercarriage Length		
	4.94 m (16 ft. 2 in.)	
F Counterweight Clearance		
	1.18 m (3 ft. 10 in.)	
G Upperstructure Width		
	2.99 m (9 ft. 10 in.)	
H Cab Height		
	3.14 m (10 ft. 4 in.)	
I Track Width w/ Triple Semi-Grouser Shoes		
	800 mm (32 in.)	
J Gauge Width		
	2.59 m (8 ft. 6 in.)	
K Ground Clearance		
	0.50 m (20 in.)	
L Overall Width w/ Triple Semi-Grouser Shoes		
800 mm (32 in.)	3.39 m (11 ft. 2 in.)	



DASH-5

Lift Charts

ZX350LC-5

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 1160-kg (2,557 lb.) bucket and 800-mm (32 in.) shoes; 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 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 Side
With 2.66-m (8 ft. 9 in.) arm												
6.0 m (20 ft.)							9496	9213	8705	6162		
							(20,636)	(19,803)	(19,093)	(13,179)		
4.5 m (15 ft.)					14 206	14 021	10 894	8801	9279	6021		
					(30,447)	(30,255)	(23,562)	(18,960)	(20,190)	(12,922)		
3.0 m (10 ft.)					17 742	12 827	12 506	8285	9573	5798		
					(38,067)	(27,693)	(27,011)	(17,857)	(20,571)	(12,462)		
1.5 m (5 ft.)							13 399	7868	9319	5570		
							(28,794)	(16,949)	(20,037)	(11,982)		
Ground Line					18 814	11 932	13 127	7634	9155	5423		
					(42,867)	(25,647)	(28,197)	(16,432)	(19,685)	(11,666)		
-1.5 m (-5 ft.)			12 495	12 495	18 754	11 959	13 059	7575	9117	5389		
			(28,545)	(28,545)	(40,705)	(25,693)	(28,045)	(16,301)	(19,617)	(11,605)		
-3.0 m (-10 ft.)			21 868	21 868	16 665	12 147	12 606	7679				
			(47,544)	(47,544)	(36,066)	(26,109)	(27,142)	(16,540)				
-4.5 m (-15 ft.)			16 500	16 500	12 776	12 551						
			(35,354)	(35,354)	(27,209)	(27,027)						
With 3.2-m (10 ft. 6 in.) arm												
6.0 m (20 ft.)									8008	6249		
									(17,528)	(13,381)		
4.5 m (15 ft.)							10 108	8940	8700	6077		
							(21,858)	(19,242)	(18,923)	(13,042)		
3.0 m (10 ft.)					16 457	13 179	11 834	8402	9604	5832	7003	4180
					(35,331)	(28,428)	(25,561)	(18,102)	(20,664)	(12,529)	(15,009)	(8936)
1.5 m (5 ft.)					19 033	12 300	13 321	7933	9338	5579	6882	4069
					(41,053)	(26,492)	(28,796)	(17,084)	(20,070)	(11,995)	(14,768)	(8714)
Ground Line					19 818	11 930	13 140	7635	9132	5395	6794	3988
					(42,912)	(25,649)	(28,219)	(16,430)	(19,628)	(11,598)	(14,592)	(8,553)
-1.5 m (-5 ft.)			11 956	11 956	19 291	11 864	13 002	7516	9042	5314		
			(27,138)	(27,138)	(41,824)	(25,490)	(27,916)	(16,168)	(19,442)	(11,431)		
-3.0 m (-10 ft.)	14 280	14 280	19 673	19 673	17 649	11 988	13 051	7558	9105	5371		
	(32,048)	(32,048)	(44,674)	(44,674)	(38,194)	(25,762)	(28,032)	(16,269)	(19,608)	(11,580)		
-4.5 m (-15 ft.)			19 521	19 521	14 491	12 307	10 645	7794				
			(41,956)	(41,956)	(31,054)	(26,481)	(22,511)	(16,823)				
With 4.0-m (13 ft. 1 in.) arm												
6.0 m (20 ft.)									7015	6409	5727	4442
									(15,348)	(13,734)	(11,021)	(9,453)
4.5 m (15 ft.)									7813	6203	7212	4370
									(16,997)	(13,312)	(15,462)	(9,335)
3.0 m (10 ft.)					14 409	13 717	10 708	8612	8838	5923	7070	4234
					(30,952)	(29,563)	(23,138)	(18,543)	(19,174)	(12,721)	(15,160)	(9,058)
1.5 m (5 ft.)					17 673	12 624	12 469	8065	9401	5626	6904	4082
					(38,094)	(27,185)	(26,955)	(17,362)	(20,198)	(12,090)	(14,815)	(8,741)
Ground Line			6735	6735	19 386	12 004	13 195	7669	9133	5386	6766	3955
			(15,416)	(15,416)	(41,927)	(25,812)	(28,331)	(16,500)	(19,623)	(11,573)	(14,526)	(8,476)
-1.5 m (-5 ft.)	6807	6807	10 880	10 880	19 638	11 769	12 949	7458	8974	5244	6692	3887
	(15,227)	(15,227)	(24,662)	(24,662)	(42,536)	(25,286)	(27,797)	(16,037)	(19,285)	(11,269)	(14,381)	(8,342)
-3.0 m (-10 ft.)	11 398	11 398	16 291	16 291	18 694	11 779	12 899	7414	8945	5218		
	(25,572)	(25,572)	(36,941)	(36,941)	(40,455)	(25,307)	(27,693)	(15,947)	(19,236)	(11,226)		
-4.5 m (-15 ft.)	16 873	16 873	23 293	23 293	16 436	11 987	12 165	7536	8817	5356		
	(38,021)	(38,021)	(50,183)	(50,183)	(35,373)	(25,775)	(26,067)	(16,233)	(18,456)	(11,576)		
-6.0 m (-20 ft.)			16 669	16 669	12 038	12 038						
			(35,135)	(35,135)	(25,239)	(25,239)						

Buckets

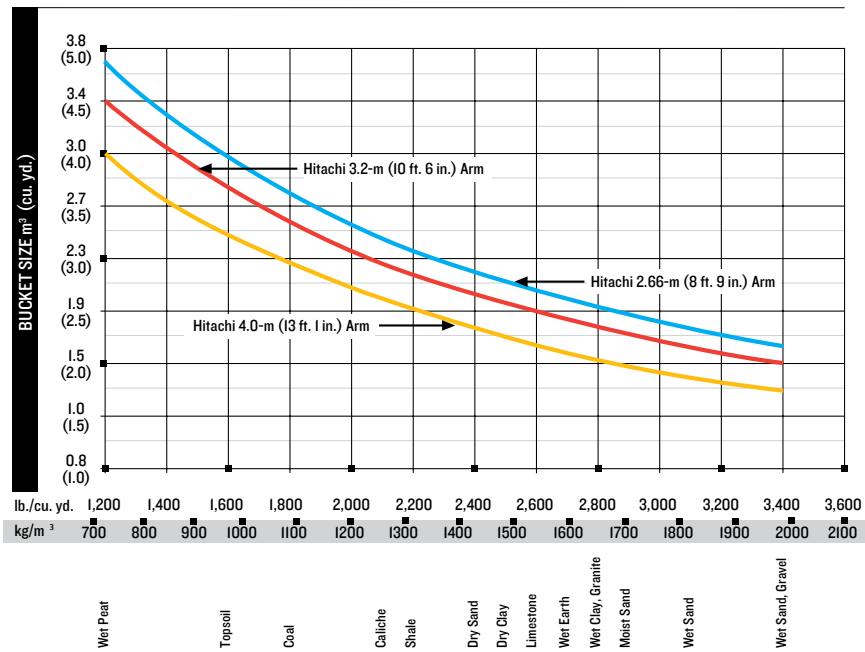
ZX350LC-5

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with ESCO teeth standard.

Replaceable cutting edges and a variety of teeth are available through Hitachi parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight		Bucket Dig Force		Arm Dig Force 2.66 m (8 ft. 9 in.)		Arm Dig Force 3.2 m (10 ft. 6 in.)		Arm Dig Force 4.0 m (13 ft. 1 in.)		Bucket Tip Radius		Number of Teeth
	mm	in.	m ³	cu. yd.	kg	lb.	kN	lb.	kN	lb.	kN	lb.	kN	lb.	mm	in.	
Heavy Duty	914	36	1.13	1.5	971	2,140	225.2	50,627	204.2	45,906	177.6	39,926	152.6	34,306	1600	63.0	4
	1067	42	1.34	1.7	1003	2,212	225.2	50,627	204.2	45,906	177.6	39,926	152.6	34,306	1600	63.0	5
	1219	48	1.55	2.0	1055	2,326	225.2	50,627	204.2	45,906	177.6	39,926	152.6	34,306	1600	63.0	6
	1372	54	1.76	2.3	1161	2,559	225.2	50,627	204.2	45,906	177.6	39,926	152.6	34,306	1600	63.0	6
Heavy Duty High Capacity	760	30	0.96	1.3	1142	2,518	204.2	45,906	196.6	44,197	171.7	38,600	148.3	33,339	1765	69.5	4
	915	36	1.19	1.6	1263	2,783	204.2	45,906	196.6	44,197	171.7	38,600	148.3	33,339	1765	69.5	4
	1065	42	1.41	1.8	1416	3,123	204.2	45,906	196.6	44,197	171.7	38,600	148.3	33,339	1765	69.5	5
	1220	48	1.64	2.1	1506	3,321	204.2	45,906	196.6	44,197	171.7	38,600	148.3	33,339	1765	69.5	6
	1372	54	1.87	2.4	1617	3,565	204.2	45,906	196.6	44,197	171.7	38,600	148.3	33,339	1765	69.5	6

Bucket Selection Guide*



*Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted materials, and volume loading applications such as mass-excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

DASH-5

ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special key

350 Engine

- Auto-idle system
- Batteries (2 – 12 volt)
- Coolant recovery tank
- Dual-element dry-type air filter
- Electronic engine control
- Enclosed fan guard (conforms to SAE J1308)
- Engine coolant to -37 deg. C (-34 deg. F)
- Programmable auto shutdown
- Fuel filter with water separator
- Full-flow oil filter
- Turbocharger with charge air cooler
- High-efficiency, low-noise fan
- 500-hour engine-oil-change interval
- 70% (35 deg.) off-level capability
- Severe-duty fuel filter
- ▲ Chrome exhaust stack
- ▲ Engine coolant heater

Hydraulic System

- Reduced-drift valve for boom down, arm in
- Auxiliary hydraulic valve section
- Spring-applied, hydraulically released automatic swing brake
- Auxiliary hydraulic-flow adjustments through monitor
- Auto power lift
- 5,000-hour hydraulic-oil-change interval
- ▲ Auxiliary hydraulic lines
- ▲ Auxiliary pilot and electric controls
- ▲ Hydraulic filter restriction indicator kit
- ▲ Load-lowering control / Anti-drift device
- ▲ Single-pedal propel control
- ▲ Control pattern change valve

Undercarriage

- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and 3 additional
- 2-speed propel with automatic shift
- Upper carrier rollers (2)
- Sealed and lubricated track chain
- Triple semi-grouser shoes, 800 mm (32 in.)
- ▲ Undercarriage frame opening guard

350 Upperstructure

- Right-hand, left-hand, and counterweight mirrors
- Vandal locks with ignition key: Cab door / Service doors / Toolbox
- Debris screen
- Remote-mounted engine oil and fuel filters

Front Attachments

- Centralized lubrication system
- Dirt seals on all bucket pins
- Less boom and arm
- Oil-impregnated bushings
- Reinforced resin thrust plates
- Tungsten carbide thermal coating on arm-to-bucket joint
- ▲ Arm, 2.66 m (8 ft. 9 in.)
- ▲ Arm, 3.2 m (10 ft. 6 in.)
- ▲ Arm, 4.0 m (13 ft. 1 in.)
- ▲ Attachment quick-couplers
- ▲ Boom cylinder with plumbing to mainframe less boom and arm
- ▲ Buckets: Heavy duty / Heavy-duty high capacity / Side cutters and teeth
- ▲ "D" channel guard
- ▲ Material clamps
- ▲ Super-long fronts

Operator's Station

- Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
- AM/FM radio
- Auto climate control/air conditioner/heater/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 100-mm (4 in.) adjustable armrests
- Floor mat
- Front windshield wiper with intermittent speeds
- Gauges (illuminated): Engine coolant / Fuel
- Horn, electric
- Hour meter, electric
- Hydraulic shutoff lever, all controls
- Hydraulic warm-up control
- Interior light
- Large cup holder
- Machine Information Center (MIC)

350 Operator's Station (continued)

- Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)
- Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, 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, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
- Motion alarm with cancel switch (conforms to SAE J994)
- Power-boost switch on right console lever
- Auxiliary hydraulic control switches in right console lever
- SAE 2-lever control pattern
- Seat belt, 51 mm (2 in.), retractable
- Tinted glass
- Transparent tinted overhead hatch
- ▲ Hot/cold beverage compartment
- ▲ Air-suspension heated seat
- ▲ Hydraulic oil filter restriction indicator light
- ▲ Protection screens for cab front, rear, and side
- ▲ Seat belt, 76 mm (3 in.), non-retractable
- ▲ Window vandal-protection covers

Electrical

- 50-amp alternator
- Blade-type multi-fused circuits
- Positive-terminal battery covers
- ZXLink™ wireless communication system (available in specific countries; see your dealer for details)
- ▲ Rearview camera
- ▲ Cab extension wiring harness

Lights

- Work lights: Halogen / One mounted on boom / One mounted on frame
- ▲ 2 lights mounted on cab / One mounted on right side of boom

See your Hitachi dealer for further information.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions specified per ISO 9249. No derating is required up to 2000-m (6,560 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 1370-mm (54 in.) bucket, 800-mm (32 in.) triple semi-grouser shoes, 6928-kg (15,274 lb.) counterweight, full fuel tank, and 79-kg (175 lb.) operator.

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