

ZAXIS 160 LC-6 FT4 EXCAVATOR

20-Aug-2020

Code	Description	Qty	List Price(USD)
05W1FF	ZAXIS 160 LC-6 FT4 EXCAVATOR	1	\$186,587.00

Option Codes

1095	Engine Stage IV Emissions	1	\$18,645.00
1600	English Customer Delivery Packet	1	No Added Cost
170C	JDLink Ultimate - 5 Year Subscription	1	No Added Cost
3200	600 mm (24 In.) Triple Semi-Grouser Shoes	1	No Added Cost
4125	Seat, Standard Mechanical	1	No Added Cost
6835	One Piece Boom with Arm Cylinder and Plumbing	1	\$16,263.00
7180	Arm with Bucket Cylinder and Linkage	1	\$12,647.00
7401	Less Auxiliary Hydraulics	1	No Added Cost
8432	Heavy-Duty Bucket	1	\$7,026.00

Total	\$241,168.00
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Manufacturer's Suggested List Price shown. Retail prices may vary by dealer. Unless stated otherwise, taxes, freight, setup, delivery and other dealer specific charges not included in the pricing. Options/items noted with anything other than price will have additional costs. Pricing, availability, and specifications subject to change without notice. Special program pricing may be available on certain models. See dealer for details. Prices shown are in U.S. dollars and valid only in the U.S.

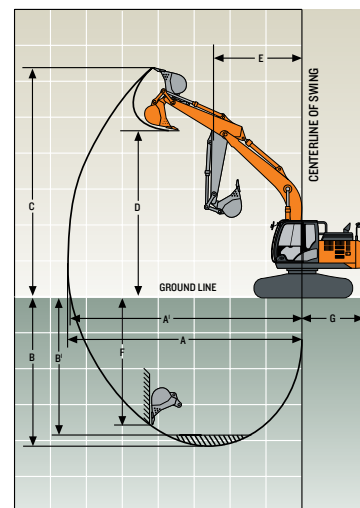
Engine		ZX160LC-6	
Manufacturer and Model	Isuzu 4JJI		
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	86 kW (116 hp) @ 2,200 rpm		
Cylinders	4		
Displacement	3.0 L (182 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged, air-to-air charge-air cooler		
Cooling			
Direct-driven, high-efficiency, suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low	3.4 km/h (2.1 mph)		
High	5.3 km/h (3.3 mph)		
Drawbar Pull	17 250 kg (38,030 lb.)		
Hydraulics			
Open center, load sensing			
Main Pumps	2 variable-displacement axial-piston pumps		
Maximum Rated Flow	191 L/m (50 gpm) x 2		
Pilot Pump	One gear		
Maximum Rated Flow	33.6 L/m (8.9 gpm)		
Pressure Setting	3930 kPa (570 psi)		
System Operating Pressure			
Circuits			
Implement	34 336 kPa (4,980 psi)		
Travel	34 336 kPa (4,980 psi)		
Swing	34 336 kPa (4,980 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)	110 mm (4.33 in.)	80 mm (3.15 in.)	1110 mm (43.70 in.)
Arm (1)	120 mm (4.72 in.)	90 mm (3.54 in.)	1365 mm (53.74 in.)
Bucket (1)	105 mm (4.13 in.)	75 mm (2.95 in.)	935 mm (36.81 in.)
Electrical			
Number of Batteries (12 volt)	2		
Battery Capacity	890 CCA		
Alternator Rating	50 amp		
Work Lights	2 halogen (one mounted on boom, one on frame)		
Undercarriage			
Rollers (each side)			
Carrier Rollers	2		
Track Rollers	7		
Shoes (each side)	43		
Track			
Adjustment	Hydraulic		
Guides	Front and center		
Chain	Sealed and lubricated		
Ground Pressure			
600-mm (24 in.) Triple Semi-Grouser Shoes	41 kPa (5.95 psi)		
700-mm (28 in.) Triple Semi-Grouser Shoes	35 kPa (5.08 psi)		
Swing Mechanism			
Swing Speed	13.3 rpm		
Swing Torque	44 000 Nm (32,353 lb.-ft.)		

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Serviceability		ZX160LC-6
Refill Capacities		
Fuel Tank		285 L (75.3 gal.)
Diesel Exhaust Fluid (DEF) Tank		35 L (37 qt.)
Cooling System		24 L (25.4 qt.)
Engine Oil with Filter		17 L (18 qt.)
Hydraulic Tank		125 L (33 gal.)
Hydraulic System		210 L (55.5 gal.)
Swing Gearbox		6.9 L (7.3 qt.)
Propel Gearbox (each)		6.8 L (7.2 qt.)
Pump Drive Gearbox		0.9 L (1 qt.)
Operating Weights		
With full fuel tank; 79-kg (175 lb.) operator; 528-kg (1,164 lb.) heavy-duty bucket; 3.10-m (10 ft. 2 in.) arm; 3210-kg (7,055 lb.) counterweight; and 700-mm (28 in.) triple semi-grouser shoes		
Operating Weight		17 418 kg (38,366 lb.)
Optional Components		
Undercarriage w/ Triple Semi-Grouser Shoes		
600 mm (24 in.)		6316 kg (13,912 lb.)
700 mm (28 in.)		6530 kg (14,383 lb.)
One-Piece Boom (with arm cylinder)		1300 kg (2,863 lb.)
Arm with Bucket Cylinder and Linkage		
2.60 m (8 ft. 6 in.)		788 kg (1,736 lb.)
3.10 m (10 ft. 2 in.)		874 kg (1,925 lb.)
Boom Lift Cylinders (2), Total Weight		306 kg (674 lb.)

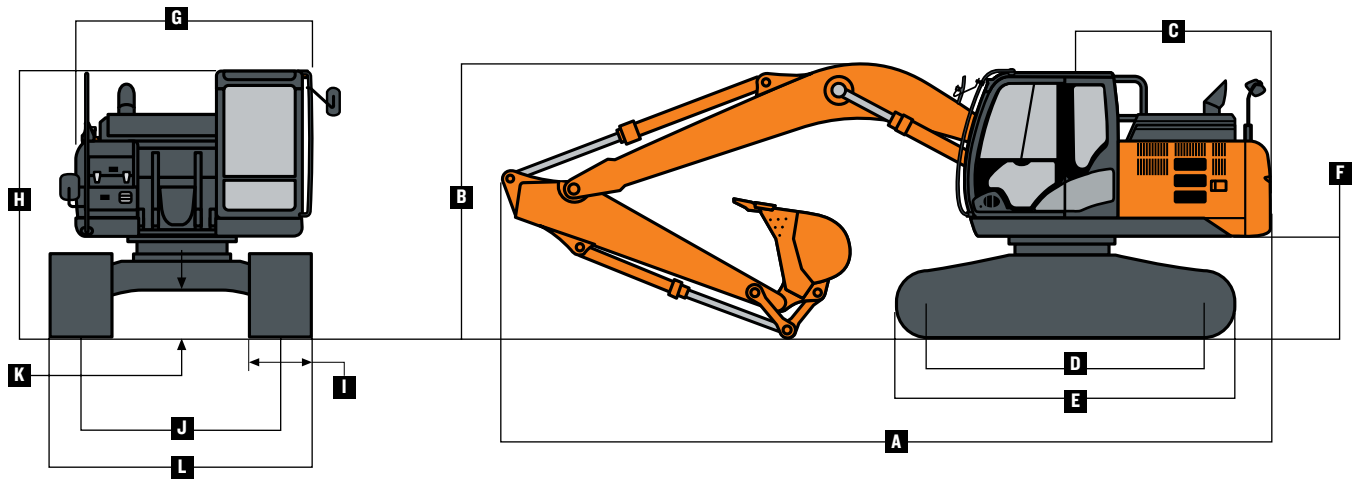
Operating Dimensions

Arm Length		2.60 m (8 ft. 6 in.)	3.10 m (10 ft. 2 in.)
Arm Digging Force			
SAE		88 kN (19,784 lb.)	78 kN (17,536 lb.)
ISO		91 kN (20,459 lb.)	81 kN (18,210 lb.)
Bucket Digging Force			
SAE		99 kN (22,257 lb.)	99 kN (22,257 lb.)
ISO		112 kN (25,180 lb.)	112 kN (25,180 lb.)
A	Maximum Reach	8.87 m (29 ft. 1 in.)	9.33 m (30 ft. 7 in.)
A'	Maximum Reach at Ground Level	8.7 m (28 ft. 7 in.)	9.16 m (30 ft. 1 in.)
B	Maximum Digging Depth	5.98 m (19 ft. 7 in.)	6.49 m (21 ft. 4 in.)
B'	Maximum Digging Depth at		
	2.44-m (8 ft.) Flat Bottom	5.74 m (18 ft. 10 in.)	6.27 m (20 ft. 7 in.)
C	Maximum Cutting Height	8.88 m (29 ft. 2 in.)	9.13 m (29 ft. 11 in.)
D	Maximum Dumping Height	6.17 m (20 ft. 3 in.)	6.4 m (20 ft. 12 in.)
E	Minimum Swing Radius	2.91 m (9 ft. 7 in.)	2.92 m (9 ft. 7 in.)
F	Maximum Vertical Wall	5.16 m (16 ft. 11 in.)	5.69 m (18 ft. 8 in.)
G	Tail Swing Radius	5.16 m (16 ft. 11 in.)	5.69 m (18 ft. 8 in.)



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Machine Dimensions		ZX160LC-6
A Overall Length w/ Arm	2.60 m (8 ft. 6 in.)	8.62 m (28 ft. 3 in.)
	3.10 m (10 ft. 2 in.)	8.65 m (28 ft. 5 in.)
B Overall Height w/ Arm	2.60 m (8 ft. 6 in.)	2.87 m (9 ft. 5 in.)
	3.10 m (10 ft. 2 in.)	3.11 m (10 ft. 2 in.)
C Rear-End Length/Swing Radius		2.55 m (8 ft. 4 in.)
D Distance Between Idler/Sprocket Centerline		3.10 m (10 ft. 2 in.)
E Undercarriage Length		3.92 m (12 ft. 10 in.)
F Counterweight Clearance		1030 mm (3 ft. 5 in.)
G Upperstructure Width		2.50 m (8 ft. 2 in.)
H Cab Height		2.95 m (9 ft. 8 in.)
I Track Width w/ Triple Semi-Grouser Shoes		600 mm (24 in.)
		700 mm (28 in.)
J Gauge Width		1.99 m (6 ft. 6 in.)
K Ground Clearance		470 mm (19 in.)
L Overall Width w/ Triple Semi-Grouser Shoes		
	600 mm (24 in.)	2.59 m (8 ft. 6 in.)
	700 mm (28 in.)	2.69 m (8 ft. 10 in.)



Lift Charts

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Load Point Height indicates hydraulically limited capacity; **lightface type** indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 528-kg (1,164 lb.) bucket; 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 (with power boost).

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.)	
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
With 2.60-m (8 ft. 6 in.) arm and 600-mm (24 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							2850	2850		
4.5 m (15 ft.)					4100 (8,900)	4100 (8,900)	3850 (8,450)	3100 (6,650)		
3.0 m (10 ft.)			8400 (17,900)	8400 (17,900)	5450 (11,700)	4700 (10,150)	4400 (9,550)	2950 (6,350)		
1.5 m (5 ft.)					6800 (14,700)	4400 (9,450)	4550 (9,800)	2800 (6,050)		
Ground Line			5800 (13,450)	5800 (13,450)	7050 (15,100)	4200 (9,000)	4450 (9,550)	2700 (5,850)		
-1.5 m (-5 ft.)	5300 (11,850)	5300 (11,850)	9950 (22,800)	7900 (17,000)	6950 (14,950)	4150 (8,900)	4400 (9,450)	2650 (5,750)		
-3.0 m (-10 ft.)	9850 (22,250)	9850 (22,250)	10600 (22,900)	8050 (17,350)	7050 (15,100)	4200 (9,050)				
With 2.60-m (8 ft. 6 in.) arm and 700-mm (28 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							2850	2850		
4.5 m (15 ft.)					4100 (8,900)	4100 (8,900)	3850 (8,450)	3150 (6,750)		
3.0 m (10 ft.)			8400 (17,900)	8400 (17,900)	5450 (11,700)	4750 (10,250)	4400 (9,550)	3000 (6,450)		
1.5 m (5 ft.)					6800 (14,700)	4450 (9,550)	4600 (9,900)	2850 (6,150)		
Ground Line			5800 (13,450)	5800 (13,450)	7100 (15,250)	4250 (9,150)	4500 (9,650)	2750 (5,900)		
-1.5 m (-5 ft.)	5300 (11,850)	5300 (11,850)	9950 (22,800)	8000 (17,200)	7050 (15,100)	4200 (9,000)	4450 (9,550)	2700 (5,850)		
-3.0 m (-10 ft.)	9850 (22,250)	9850 (22,250)	10 600 (22,900)	8150 (17,550)	7100 (15,250)	4250 (9,150)				
With 3.10-m (10 ft. 2 in.) arm and 600-mm (24 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							2950 (6,150)	2950 (6,150)		
4.5 m (15 ft.)							3400 (7,500)	3150 (6,750)		
3.0 m (10 ft.)			6950 (14,800)	6950 (14,800)	4850 (10,400)	4800 (10,350)	4000 (8,750)	3000 (6,450)	2900 (5,750)	2000 (4,300)
1.5 m (5 ft.)			7100 (17,200)	7100 (17,200)	6300 (13,650)	4450 (9,550)	4550 (9,850)	2850 (6,100)	3150 (6,800)	1950 (4,150)
Ground Line			6400 (14,750)	6400 (14,750)	7050 (15,100)	4200 (9,000)	4450 (9,500)	2700 (5,800)	3100 (6,700)	1850 (4,000)
-1.5 m (-5 ft.)	4700 (10,550)	4700 (10,550)	9200 (21,000)	7800 (16,800)	6900 (14,850)	4100 (8,800)	4350 (9,350)	2650 (5,650)		
-3.0 m (-10 ft.)	8250 (18,600)	8250 (18,600)	11 200 (24,250)	7900 (17,000)	6950 (14,900)	4100 (8,850)	4400 (9,450)	2650 (5,700)		
-4.5 m (-15 ft.)			8950 (19,100)	8200 (17,600)	5850 (12,350)	4250 (9,250)				
With 3.10-m (10 ft. 2 in.) arm and 700-mm (28 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							2950 (6,150)	2950 (6,150)		
4.5 m (15 ft.)							3400 (3,500)	3150 (6,800)		
3.0 m (10 ft.)			6950 (14,800)	6950 (14,800)	4850 (10,400)	4850 (10,400)	4000 (8,750)	3050 (6,500)	2900 (5,750)	2050 (4,350)
1.5 m (5 ft.)			7100 (17,200)	7100 (17,200)	6300 (13,650)	4500 (9,650)	4600 (9,900)	2850 (6,150)	3200 (6,900)	1950 (4,200)
Ground Line			6400 (14,750)	6400 (14,750)	7100 (15,250)	4250 (9,100)	4450 (9,600)	2750 (5,850)	3150 (6,750)	1900 (4,100)
-1.5 m (-5 ft.)	4700 (10,550)	4700 (10,550)	9200 (21,000)	7900 (17,000)	7000 (15,000)	4150 (8,900)	4400 (9,450)	2650 (5,750)		
-3.0 m (-10 ft.)	8250 (18,600)	8250 (18,600)	11 200 (24,250)	8000 (17,200)	7000 (15,050)	4150 (8,950)	4450 (9,550)	2700 (5,800)		
-4.5 m (-15 ft.)			8950 (19,100)	8300 (17,850)	5850 (12,350)	4300 (9,350)				

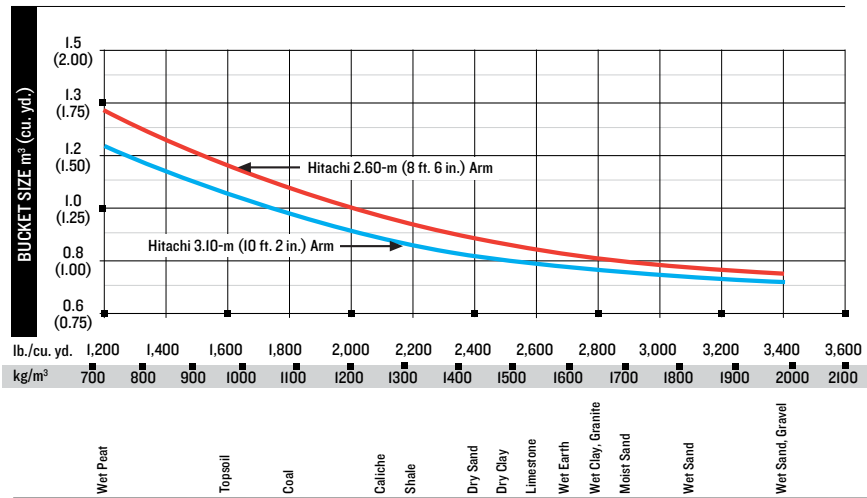
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Buckets ZX160LC-6

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	
	mm	in.	m ³	cu. yd.	kg	lb.
Heavy-Duty	610	24	0.36	0.47	402	887
	760	30	0.49	0.64	458	1,010
	915	36	0.62	0.81	521	1,148
	1065	42	0.76	0.99	561	1,236
	1219	48	0.89	1.17	617	1,361

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.

SPECS

ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special kit

160	180	Engine
●	●	Auto-idle system
●	●	Automatic belt-tension device
●	●	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
●	●	500-hour engine-oil-change interval
●	●	70% (35 deg.) off-level capability
▲	▲	Chrome exhaust stack
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
●	●	Hydraulic-oil-sampling valve
▲	▲	Auxiliary hydraulic lines
▲	▲	Auxiliary pilot and electric controls
▲	▲	Hydraulic filter restriction indicator kit
▲	▲	Load-lowering control 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 center
●	●	2-speed propel with automatic shift
●	●	Upper carrier rollers (2)
●	●	Sealed and lubricated track chain
▲	▲	Triple semi-grouser shoes, 600 mm (24 in.)
▲	▲	Triple semi-grouser shoes, 700 mm (28 in.)
▲	▲	Triple semi-grouser shoes, 800 mm (32 in.)

160	180	Upperstructure
●	●	Right-hand and left-hand mirrors
●	●	Vandal locks with ignition key: Cab door / Service doors / Toolbox
●	●	Debris screen
●	●	Remote-mounted engine oil and fuel filters
●	●	Service handrails
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, 2.60 m (8 ft. 6 in.)
▲	▲	Arm, 2.71 m (8 ft. 10 in.)
▲	▲	Arm, 3.10 m (10 ft. 2 in.)
▲	▲	Arm, 3.21 m (10 ft. 6 in.)
▲	▲	Attachment quick-couplers
▲	▲	Boom cylinder with plumbing to mainframe less boom and arm
▲	▲	Buckets: Heavy duty / Side cutters and teeth
▲	▲	Material clamps
Operator's Station		
●	●	Meets ISO 12117-2 for ROPS
●	●	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): Diesel Exhaust Fluid (DEF) / 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)
●	●	Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)

160	180	Operator's Station (continued)
●	●	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, low DEF indication with audible alarm, 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
●	●	Battery disconnect switch
●	●	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 / 1 mounted on boom / 1 mounted on frame
▲	▲	2 lights mounted on cab / 1 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 3050-m (10,000 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 units with full fuel tanks and 79-kg (175 lb.) operators; a ZX160LC-6 unit with 528-kg (1,164 lb.) heavy-duty bucket; 3.10-m (10 ft. 2 in.) arm; 3210-kg (7,055 lb.) counterweight; and 700-mm (28-in.) triple semi-grouser shoes; and a ZX180LC-6 unit with 600-kg (1,323 lb.) heavy-duty bucket; 3.21-m (10 ft. 6 in.) arm; 3900-kg (8,598 lb.) counterweight; and 700-mm (28 in.) triple semi-grouser shoes.