

A large orange Hitachi excavator is shown in action at a construction site. The excavator's arm is extended, and its bucket is filled with dark soil, positioned over a pile of dirt. In the background, a building under construction is visible, surrounded by scaffolding. A worker wearing a hard hat and safety gear is seated in the excavator's cab. The sky is bright blue with scattered white clouds. The Hitachi logo is clearly visible on the side of the excavator's boom.

HITACHI

ZX160LC-6
ZX180LC-6

UTILITY EXCAVATORS

A large Hitachi excavator is shown in the background, working on a construction site. The excavator's arm and bucket are visible, with the "HITACHI" logo clearly displayed on the boom. The background is a mix of orange and blue tones, suggesting a sunset or sunrise sky. In the foreground, there are large mounds of dirt and gravel, with some residential houses visible in the distance.

POWERFUL PERFORMANCE. PERFECTLY

The ZXI60LC-6 and ZXI80LC-6 feature a number of productivity-boosting advantages. A fuel-efficient EPA Final Tier 4 (FT4)/EU Stage IV Isuzu engine meets rigid emission standards – no diesel particulate filter (DPF) needed. You also get an upgraded cab and premium seat options for maximum comfort. Programmable attachment modes and optional auxiliary hydraulic lines for versatility. And efficient features like a battery disconnect switch, standard pattern-control switch and fuel shut-off.

These utility excavators offer

 **BIG
BENEFITS.**

ZX160LC-6
ZX180LC-6

PACKAGED.

ZX160LC-6
ZX180LC-6

NEXT-LEVEL PRODUCTIVITY.

The ZX160LC-6 and ZX180LC-6 take productivity to a higher level with our HIOS hydraulic system. This system balances engine performance with hydraulic flow, plus three work modes provide fuel-efficient productivity.

Need extra stability or lift capacity? Choose from a wide variety of track widths, arm lengths, bucket sizes and other options.

The ZX160LC-6 and ZX180LC-6 give you
■ **PRODUCTIVE ADVANTAGES.**



FT4 TECHNOLOGY

Our FT4 field-proven technology is simple and efficient, employing cooled exhaust gas recirculation (EGR), a diesel oxidation catalyst (DOC) and selective catalytic reduction (SCR). An improved piston design allows particulate matter to be burned in cylinder, so there's no need for a diesel particulate filter (DPF).



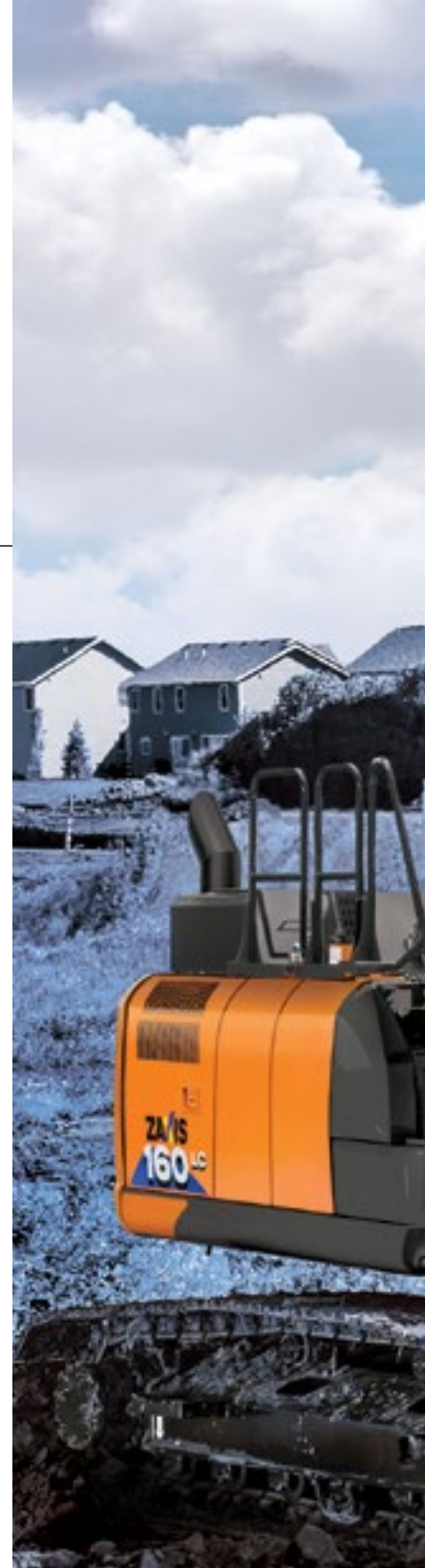
AUXILIARY LINES

Optional auxiliary hydraulic lines with combination piping increase machine versatility.



SINGLE-PEDAL PROPEL

An optional, hydraulic, single-pedal propel system allows straight-line machine tracking without articulating both hand and foot pedals.





EFFICIENT FUEL SYSTEM

The pressurized fuel system improves fuel injector operation, and the fuel recirculation system helps prevent fuel gelling in cold climates – so you can maintain maximum productivity.

HIOS HYDRAULIC SYSTEM

The HIOS IV (for ZX160LC-6) and HIOS III (for ZX180LC-6) hydraulic systems balance engine performance with hydraulic flow – returning the arm to dig faster.

POWER-BOOST

Muscle through tough digging by pressing the power-boost button.



PROGRAMMABLE ATTACHMENT MODE

Control oil flow and toggle between dig and thumb modes with a programmable thumb-attachment mode.

PREMIUM SEATING

Operators get maximum support from a sculpted mechanical suspension high-back seat. For ultimate comfort, opt for the premium heated/cooled leather seat that adjusts three ways and includes a 3-inch high-visibility orange seat belt.

CLIMATE CONTROL

Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear, the cab comfortable and the operator productive.

ZX160LC-6
ZX180LC-6

MAXIMUM COMFORT. MAXIMUM PRODUCTIVITY.

It's true – a comfortable operator is more productive. And Hitachi's wider cab and premium seat options provide maximum comfort. Plus, silicon-filled cab mounts provide isolation from noise and vibration. A multifunction LCD monitor, enhanced visibility, low-effort joysticks and more contribute to daily productivity.

These cabs keep operators
COMFORTABLY PRODUCTIVE.

ADDED LIGHTING

Optional cab and right-side boom lights provide extra illumination to extend your production.

INCREASED VISIBILITY

Get unobstructed all-around visibility thanks to a wide expanse of front, side and overhead glass and mirrors, plus a standard rearview camera.

SMOOTH OPERATION

Ergonomically correct short-throw pilot levers provide smooth, precise control with less effort. Pushbuttons in the right lever allow control of auxiliary hydraulic flow for attachments. Optional sliding switch provides proportional speed control, giving you full command from your fingertips.

EASY MONITORING

Multi-language LCD monitor and rotary dial provide intuitive access to machine info and functions. Just turn and tap to select work modes, monitor maintenance intervals, check diagnostic codes and set cab temperature. A USB port keeps you digitally connected.

ZXI60LC-6
ZXI80LC-6

LESS SERVICING. MORE UPTIME.

Maintenance is minimized with the ZXI60LC-6 and ZXI80LC-6 — from grouped service points to at-a-glance gauges. No diesel particulate filter (DPF) is needed with the FT4 engine solution. Convenient upperstructure handrails provide easy engine access. Extended service intervals help maximize uptime. Scheduled maintenance is easy to track using ZXLink™ and the in-cab diagnostic monitor.

These models are designed for
MINIMUM MAINTENANCE.



MONITOR LEVELS

Easy-to-navigate LCD monitor tracks various fluid levels and issues scheduled maintenance alerts and diagnostic information.



SAME-SIDE FILTERS

Engine oil, fuel and hydraulic pilot oil filters are all located on the same side at ground level for easy servicing.



STANDARD HANDRAILS

Upperstructure handrails provide added safety when servicing the engine compartment, and a larger hood gives you better engine accessibility.





AUTO-IDLE & AUTO-SHUTDOWN

Auto-idle, which reduces engine speeds to 900 rpm, and auto-shutdown contribute to fuel efficiency.

ACCESSIBLE EFFICIENCY

The standard pattern-control switch, battery disconnect switch and fuel shutoff are easily accessible in the rear door behind the cab.

NO DPF NEEDED

The FT4 engine solution does not require a DPF, saving service time and lowering operating costs.

CENTRALIZED SERVICING

Centralized lube banks place zerks within easy reach, making greasing less messy and time-consuming.



ROCK-SOLID WARRANTY

The boom, arm and mainframe are so tough, they're warranted for three years or 10,000 hours, whichever comes first.

HEAVY-DUTY DURABILITY

Thick-plate single-sheet mainframe, box-section track frames and industry exclusive double-seal swing bearing deliver heavy-duty durability.

CLEAN OPERATION

Dust screen prevents plugging, providing increased reliability.

ZXI60LC-6
ZXI80LC-6

BUILT-IN STRENGTH FOR TOUGH JOBS.

Tough jobs are no match for the ZXI60LC-6 and ZXI80LC-6. They're protected by a heavy-duty undercarriage and durable D-channel side frames. Added strength comes from welded bulkheads within the boom that resist torsional stress, tungsten-carbide thermal-coated arm surfaces and oil-impregnated bushings.

A heavy-duty design gives you
■ **DEPENDABLE DURABILITY.**



REINFORCED SIDE FRAMES

Reinforced D-channel side frames provide maximum cab and component impact protection.



PROTECTED JOINTS

Tungsten-carbide-coated surfaces protect the critical bucket-to-arm joint.



ENGINE AIR PRE-CLEANER

An optional, adjustable, rotary pre-cleaner pulls clean air into the engine when working in tough conditions.

SPECIFICATIONS

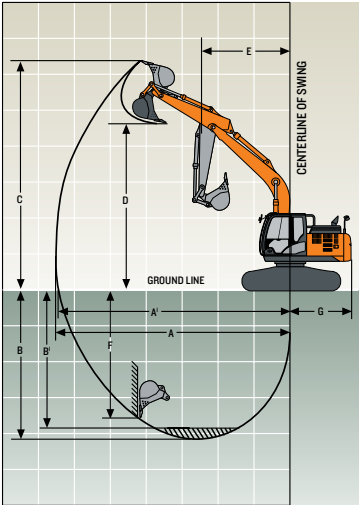
ZX160LC-6

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.)	

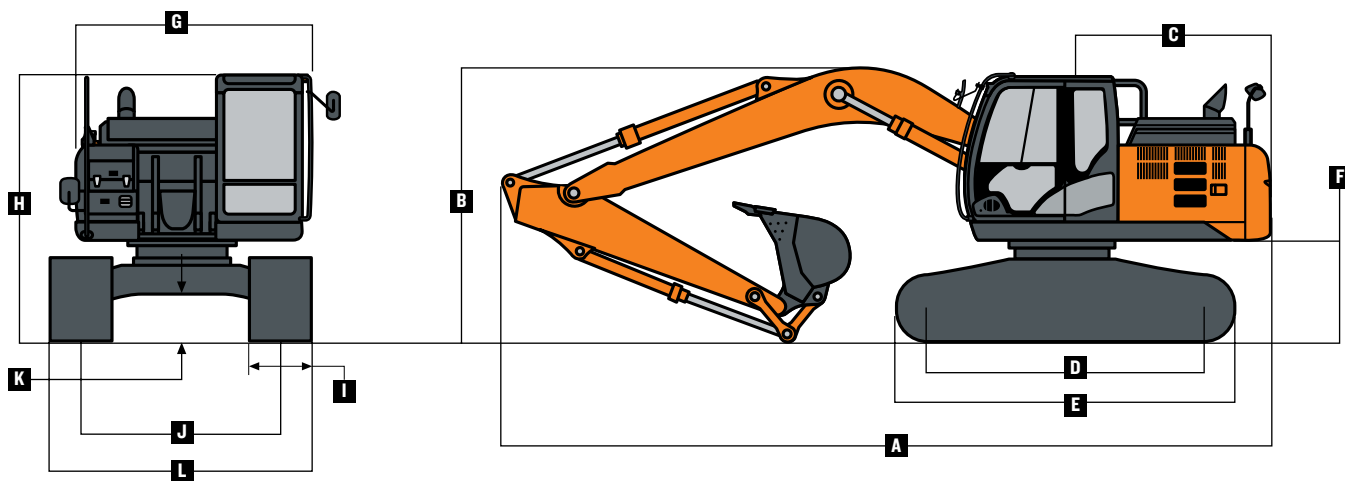
Serviceability		ZX160LC-6
Refill Capacities		
Fuel Tank		285 L (75.3 gal.)
Diesel Exhaust Fluid (DEF) Tank		35 L (37 qt.)
Cooling System		24 L (25.4 qt.)
Engine Oil with Filter		17 L (18 qt.)
Hydraulic Tank		125 L (33 gal.)
Hydraulic System		210 L (55.5 gal.)
Swing Gearbox		6.9 L (7.3 qt.)
Propel Gearbox (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		17 717 kg (39,024 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.)

ZX160LC-6

Operating Dimensions		
Arm Length		
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.)



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.)



SPECIFICATIONS

ZX160LC-6

Lift Charts ZX160LC-6

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)				

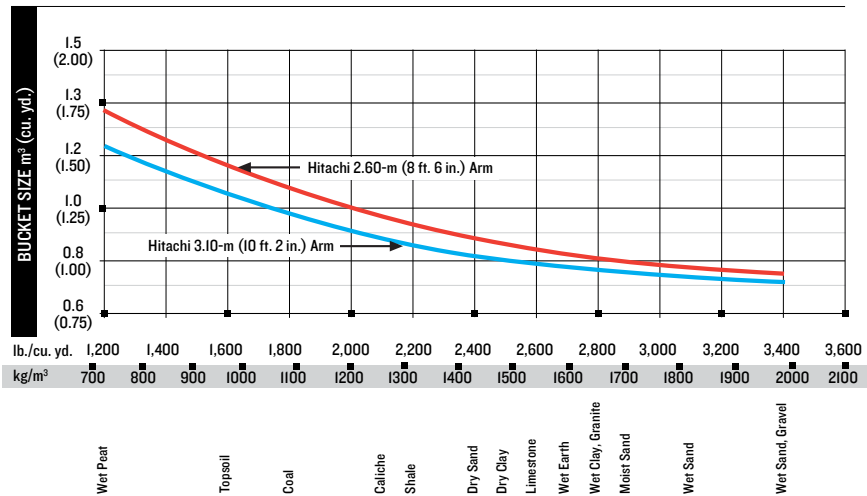
Buckets

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*



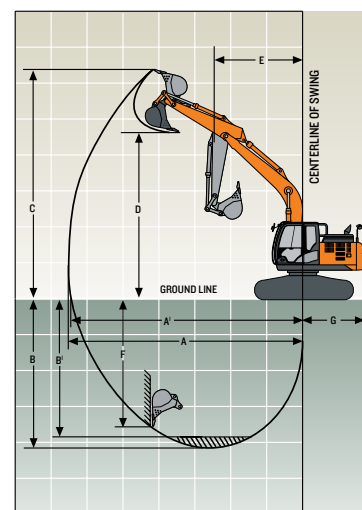
*Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations, less compacted 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.

SPECIFICATIONS

ZX180LC-6

Engine		ZX180LC-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)	120 mm (4.72 in.)	85 mm (3.35 in.)	1123 mm (44.21 in.)
Arm (1)	125 mm (4.92 in.)	90 mm (3.54 in.)	1371 mm (53.98 in.)
Bucket (1)	105 mm (4.13 in.)	75 mm (2.95 in.)	1060 mm (41.73 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)		46	
Track			
Adjustment		Hydraulic	
Guides		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		36 kPa (5.22 psi)	
800-mm (32 in.) Triple Semi-Grouser Shoes		32 kPa (4.64 psi)	
Swing Mechanism			
Swing Speed		12.8 rpm	
Swing Torque		50 000 Nm (36,765 lb.-ft.)	

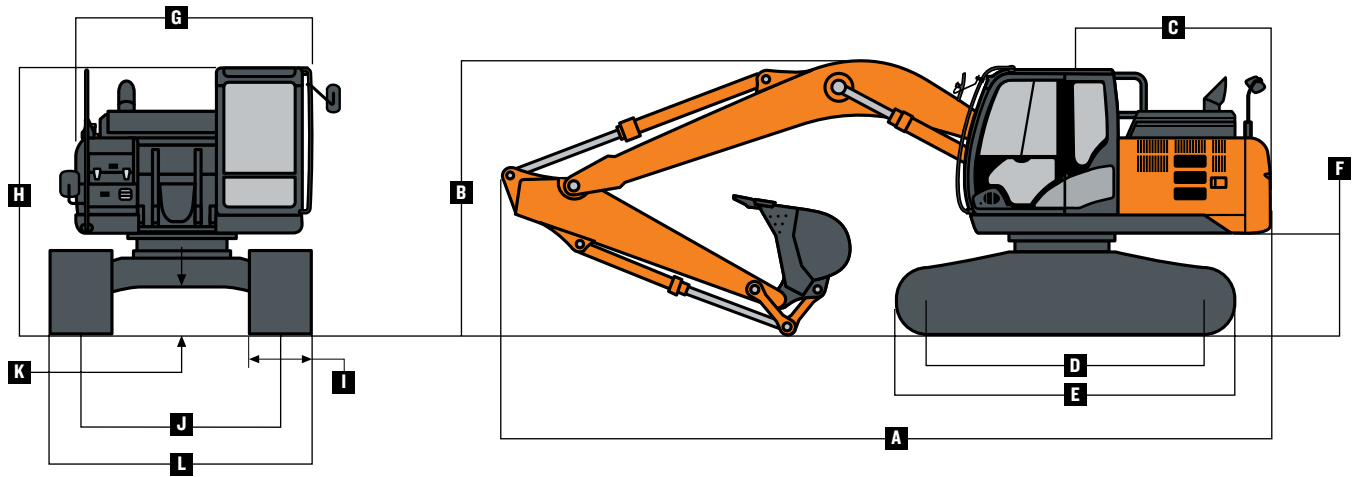
Serviceability		ZX180LC-6	
Refill Capacities			
Fuel Tank		285 L (75.3 gal.)	
Diesel Exhaust Fluid (DEF) Tank		35 L (37 qt.)	
Cooling System		24 L (25.4 qt.)	
Engine Oil with Filter		17 L (18 qt.)	
Hydraulic Tank		125 L (33 gal.)	
Hydraulic System		220 L (58.1 gal.)	
Swing Gearbox		6.9 L (7.3 qt.)	
Propel 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; 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			
Operating Weight		20 120 kg (44,317 lb.)	
Optional Components			
Undercarriage w/ Triple Semi-Grouser Shoes			
600 mm (24 in.)		6752 kg (14,873 lb.)	
700 mm (28 in.)		7143 kg (15,733 lb.)	
800 mm (32 in.)		7437 kg (16,381 lb.)	
One-Piece Boom (with arm cylinder)		1566 kg (3,449 lb.)	
Arm with Bucket Cylinder and Linkage			
2.71 m (8 ft. 10 in.)		881 kg (1,941 lb.)	
3.21 m (10 ft. 6 in.)		946 kg (2,084 lb.)	
Boom Lift Cylinders (2), Total Weight		326 kg (718 lb.)	
Operating Dimensions			
Arm Length		2.71 m (8 ft. 10 in.)	3.21 m (10 ft. 6 in.)
Arm Digging Force			
SAE		91 kN (20,459 lb.)	81 kN (18,210 lb.)
ISO		95 kN (21,358 lb.)	84 kN (18,885 lb.)
Bucket Digging Force			
SAE		112 kN (25,180 lb.)	112 kN (25,180 lb.)
ISO		127 kN (28,552 lb.)	127 kN (28,552 lb.)
A Maximum Reach		9.43 m (30 ft. 11 in.)	9.94 m (32 ft. 7 in.)
A' Maximum Reach at Ground Level		9.27 m (30 ft. 5 in.)	9.79 m (32 ft. 1 in.)
B Maximum Digging Depth		6.57 m (21 ft. 7 in.)	7.07 m (23 ft. 2 in.)
B' Maximum Digging Depth at 2.44-m (8 ft.) Flat Bottom		6.32 m (20 ft. 9 in.)	6.87 m (22 ft. 6 in.)
C Maximum Cutting Height		9.40 m (30 ft. 10 in.)	9.79 m (32 ft. 1 in.)
D Maximum Dumping Height		6.57 m (21 ft. 7 in.)	6.93 m (22 ft. 9 in.)
E Minimum Swing Radius		3.13 m (10 ft. 3 in.)	3.13 m (10 ft. 3 in.)
F Maximum Vertical Wall		5.55 m (18 ft. 3 in.)	6.28 m (20 ft. 7 in.)
G Tail Swing Radius		2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)



SPECIFICATIONS

ZX180LC-6

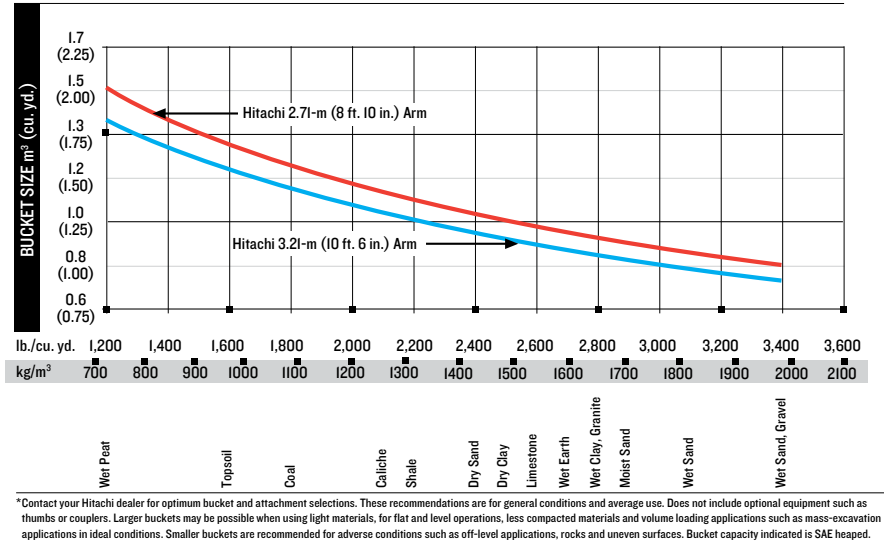
Machine Dimensions		ZX180LC-6
A Overall Length w/ Arm	2.71 m (8 ft. 10 in.)	9.04 m (29 ft. 8 in.)
	3.21 m (10 ft. 6 in.)	9.04 m (29 ft. 8 in.)
B Overall Height w/ Arm	2.71 m (8 ft. 10 in.)	3.08 m (10 ft. 1 in.)
	3.21 m (10 ft. 6 in.)	3.39 m (11 ft. 1 in.)
C Rear-End Length/Swing Radius		2.55 m (8 ft. 4 in.)
D Distance Between Idler/Sprocket Centerline		3.37 m (11 ft. 1 in.)
E Undercarriage Length		4.17 m (13 ft. 8 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.)	
	800 mm (32 in.)	
J Gauge Width		2.20 m (7 ft. 3 in.)
K Ground Clearance		450 mm (18 in.)
L Overall Width w/ Triple Semi-Grouser Shoes	600 mm (24 in.)	2.80 m (9 ft. 2 in.)
	700 mm (28 in.)	2.90 m (9 ft. 6 in.)
	800 mm (32 in.)	3.00 m (9 ft. 10 in.)



Lift Capacities		ZX180LC-6								
Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 666-kg (1,468 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 2.71-m (8 ft. 10 in.) arm and 700-mm (28 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							3950 (8,700)	3900 (8,400)		
4.5 m (15 ft.)					4800 (10,400)	4800 (10,400)	4350 (9,450)	3800 (8,200)		
3.0 m (10 ft.)					6500 (14,000)	5750 (12,450)	5100 (11,050)	3650 (7,800)	4,000 (8,550)	2450 (5,300)
1.5 m (5 ft.)					8150 (17,600)	5350 (11,550)	5600 (12,050)	3450 (7,400)	3,900 (8,400)	2400 (5,100)
Ground Line			4300 (10,050)	4300 (10,050)	8750 (18,800)	5150 (11,050)	5450 (11,750)	3300 (7,100)	3,850 (8,250)	2300 (5,000)
-1.5 m (-5 ft.)	4600 (10,500)	4600 (10,400)	8250 (18,800)	8250 (18,800)	8700 (18,650)	5050 (10,900)	5400 (11,600)	3250 (7,000)		
-3.0 m (-10 ft.)	8750 (19,850)	8750 (19,750)	12 750 (27,600)	10 150 (21,750)	8700 (18,750)	5100 (11,000)	5450 (11,700)	3300 (7,100)		
-4.5 m (-15 ft.)			10 100 (21,650)	10 100 (21,650)	6900 (14,500)	5300 (11,500)				
With 3.21-m (10 ft. 6 in.) arm and 600-mm (24 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							3420 (7,550)	3420 (7,550)		
4.5 m (15 ft.)							3870 (8,450)	3800 (8,160)	3290 (6,700)	2510 (5,370)
3.0 m (10 ft.)			8920 (18,930)	8920 (18,930)	5810 (12,500)	5790 (12,480)	4680 (10,150)	3610 (7,760)	3930 (8,440)	2430 (5,200)
1.5 m (5 ft.)					7610 (16,410)	5340 (11,510)	5540 (11,900)	3400 (7,310)	3820 (8,210)	2330 (4,990)
Ground Line			4650 (10,760)	4650 (10,760)	8620 (18,500)	5050 (10,870)	5350 (11,510)	3230 (6,960)	3730 (8,020)	2240 (4,820)
-1.5 m (-5 ft.)	3930 (8,830)	3930 (8,830)	7390 (16,860)	7,390 (16,860)	8480 (18,190)	4930 (10,600)	5260 (11,300)	3150 (6,770)	3690 (7,940)	2210 (4,740)
-3.0 m (-10 ft.)	7200 (16,210)	7200 (16,210)	11 700 (26,760)	9800 (21,010)	8500 (18,230)	4940 (10,640)	5260 (11,320)	3150 (6,790)		
-4.5 m (-15 ft.)	11 630 (26,400)	11 630 (26,400)	11 300 (24,250)	10 080 (21,630)	7670 (16,400)	5090 (10,970)				
With 3.21-m (10 ft. 6 in.) arm and 700-mm (28 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							3420 (7,550)	3420 (7,550)		
4.5 m (15 ft.)							3870 (8,450)	3870 (8,310)	3290 (6,700)	2560 (5,480)
3.0 m (10 ft.)			8920 (18,930)	8920 (18,930)	5810 (12,500)	5810 (12,500)	4680 (10,150)	3680 (7,910)	4010 (8,610)	2480 (5,320)
1.5 m (5 ft.)					7610 (16,410)	5440 (11,730)	5580 (12,080)	3470 (7,460)	3900 (8,380)	2380 (5,100)
Ground Line			4650 (10,760)	4650 (10,760)	8790 (18,850)	5150 (11,080)	5460 (11,740)	3300 (7,100)	3810 (8,190)	2300 (4,930)
-1.5 m (-5 ft.)	3930 (8,830)	3930 (8,830)	7390 (16,860)	7390 (16,860)	8650 (18,550)	5030 (10,820)	5370 (11,530)	3220 (6,920)	3770 (8,110)	2260 (4,850)
-3.0 m (-10 ft.)	7200 (16,210)	7200 (16,210)	11 700 (26,760)	9 980 (21,400)	8660 (18,580)	5040 (10,850)	5370 (11,550)	3220 (6,930)		
-4.5 m (-15 ft.)	11 630 (26,400)	11 630 (26,400)	11 300 (24,250)	10 260 (22,020)	7670 (16,400)	5190 (11,180)				
With 3.21-m (10 ft. 6 in.) arm and 800-mm (32 in.) triple semi-grouser shoes										
6.0 m (20 ft.)							3420 (7,550)	3420 (7,550)		
4.5 m (15 ft.)							3870 (8,450)	3870 (8,420)	3290 (6,700)	2600 (5,570)
3.0 m (10 ft.)			8920 (18,930)	8920 (18,930)	5810 (12,500)	5810 (12,500)	4680 (10,150)	3730 (8,020)	4070 (8,740)	2520 (5,400)
1.5 m (5 ft.)					7610 (16,410)	5520 (11,890)	5580 (12,080)	3520 (7,570)	3960 (8,510)	2420 (5,190)
Ground Line			4650 (10,760)	4650 (10,760)	8830 (19,090)	5220 (11,240)	5540 (11,910)	3350 (7,210)	3870 (8,320)	2340 (5,010)
-1.5 m (-5 ft.)	3930 (8,830)	3930 (8,830)	7390 (16,860)	7390 (16,860)	8770 (18,810)	5100 (10,980)	5450 (11,710)	3270 (7,030)	3830 (8,240)	2300 (4,940)
-3.0 m (-10 ft.)	7200 (16,210)	7200 (16,210)	11 700 (26,760)	10 120 (21,690)	8790 (18,850)	5120 (11,010)	5450 (11,730)	3270 (7,040)		
-4.5 m (-15 ft.)	11 630 (26,400)	11 630 (26,400)	11 300 (24,250)	10 390 (22,310)	7670 (16,400)	5260 (11,340)				

ZX180LC-6

Buckets		ZX180LC-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 parts. Optional side cutters add 6 inches (150 mm) to bucket widths. Capacities are SAE heaped ratings.						
Type Bucket	Bucket Width		Bucket Capacity		Bucket Weight	
	mm	in.	m³	cu. yd.	kg	lb.
Heavy-Duty	610	24	0.39	0.51	454	1,000
	760	30	0.54	0.71	500	1,102
	915	36	0.70	0.91	552	1,218
	1065	42	0.85	1.11	597	1,317
	1220	48	1.00	1.31	655	1,443
Bucket Selection Guide*						



ZX160LC-6

ZX180LC-6

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)
●	●	Engine oil sampling valve
●	●	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
●	●	Fuel shutoff
▲	▲	Chrome exhaust stack
▲	▲	Engine air pre-cleaner
▲	▲	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
●	●	Hydraulic-oil-sampling valve
●	●	HIOS IV hydraulic management system
●	●	HIOS III hydraulic management system
●	●	Control pattern change valve
▲	▲	Auxiliary hydraulics with combination piping
▲	▲	Auxiliary pilot and electric controls
▲	▲	Hydraulic filter restriction indicator kit
▲	▲	Load-lowering control device
▲	▲	Single-pedal propel control
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
▲	▲	Track frame undercover
▲	▲	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, 76 mm (3 in.), retractable
●	●	Tinted glass
●	●	Transparent tinted overhead hatch
●	●	Hot/cold beverage compartment
●	●	USB charging port
▲	▲	Air-suspension heated seat
▲	▲	Hydraulic oil filter restriction indicator light
▲	▲	Premium heated/cooled leather seat
▲	▲	Protection screens for cab front, rear and side
▲	▲	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
▲	▲	LED light kit

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.



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