

## POWERFUL PERFORMANCE. PASSED DOWN.

#### RELIABLE PRODUCTIVITY.

Built with the same toughness as our large mining excavators, Hitachi utility-class excavators bring efficiency, reliability and durability to your job sites.

The ZXI6OLC-6 and ZXI8OLC-6 feature a number of productivity-boosting advantages, like a fuel-efficient EPA Final Tier 4 (FT4)/EU Stage IV Isuzu engine that meets rigid emission standards. The best part? There's no diesel particulate filter (DPF) needed. You also get standard upperstructure handrails for added safety and accessibility. Easy-to-operate controls for smooth and responsive hydraulics. Programmable attachment modes. And simplified maintenance with features like a battery disconnect switch. With the ZXI6OLC-6 and ZXI8OLC-6, you get...

**BIG BENEFITS.** 



## **ZX160LC-6/ZX180LC-6**





## MORE WORK DONE, MORE EFFICIENTLY.

#### PRODUCTIVE ADVANTAGES.

The ZXI6OLC-6 and ZXI8OLC-6 take productivity to a higher level with a HIOS III hydraulic system, which balances engine performance with hydraulic flow. The 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.

These models provide fuel-efficient performance with three work modes. Economy (ECO) maximizes fuel efficiency while delivering an enhanced level of productivity. Power (PWR) delivers a balance of power and speed, plus fuel economy for normal operation. High Productivity (H/P) delivers more power and faster hydraulic response.

Need extra stability or lift capacity? Choose from a wide variety of track widths, arm lengths, bucket sizes and teeth, high-flow auxiliary hydraulic packages and other options.

With the ZXI60LC-6 and ZXI80LC-6, you get...

RELIABLE PERFORMANCE.

- 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.
- It's not always about brute force. Unmatched metering and smooth multifunction operation provide finesse and precision.
- Stay on schedule with generous swing torque, digging force and lift capacity.
- Muscle through tough digging by pressing the power-boost button.

## MAXIMUM COMFORT. MAXIMUM PRODUCTIVITY.

#### **COMFORTABLE CAB.**

The ZXI6OLC-6 and ZXI8OLC-6 keep operators comfortable and focused on the job. Silicone-filled cab mounts provide isolation from noise and vibration. A refined, multifunction LCD monitor features a rotary control for easy access to performance and convenience functions and features. Operators will also appreciate the wide entryway, fully adjustable high-back sculpted seat, storage space and generous legroom. Unsurpassed visibility, ergonomically placed low-effort joysticks and a highly efficient HVAC system, plus other features keep operators...

#### SAFE AND EFFICIENT.



■ Multi-language LCD monitor and rotary dial provide easy access to machine info and functions. Turn and tap to select work modes, monitor maintenance intervals, check diagnostic codes and set cab temperature. Control oil flow and toggle between dig and thumb modes with a programmable thumb attachment mode.



■ Ergonomically correct shortthrow 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.



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



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



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. Operators get maximum support from a sculpted mechanical suspension high-back seat. For even more comfort, opt for the airsuspension heated seat.

### **ZX160LC-6/ZX180LC-6**



- Auto-idle, which reduces engine speed when hydraulics aren't in use, and auto-shutdown contribute to fuel efficiency.
- A battery disconnect switch, located in the rear door behind the cab, is easily accessible and extends battery life.
- The FT4 engine solution does not require a DPF, saving service time and lowering operating costs.



## LESS SERVICING. MORE UPTIME.

#### **LOWER OPERATING COSTS.**

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 built for...

**EASY MAINTENANCE.** 



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



Centralized lube banks place zerks within easy reach, making greasing less messy and timeconsuming.



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



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

#### **ZX160LC-6/ZX180LC-6**

## BUILT-IN STRENGTH FOR TOUGH JOBS.

#### **HEAVY-DUTY DESIGN.**

Tough jobs are no match for the ZXI6OLC-6 and ZXI8OLC-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.

The boom, arm and mainframe are so tough, they're warranted for three years or 10,000 hours, whichever comes first. Add it all up, and these models give you...

#### **DEPENDABLE DURABILITY.**



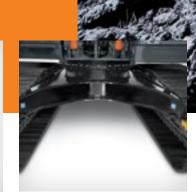
Our FT4 field-proven technology is simple and efficient, employing cooled exhaust gas recirculation (EGR), a diesel oxidation catalyst (DOC) and selective catalytic reduction (SCR). An improved piston design allows particulate matter to be burned in cylinder, so there's no need for a diesel particulate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



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



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



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



■ Dust screen prevents plugging, providing increased reliability.

■ With large idlers, rollers and strutted track links, the sealed and lubricated undercarriage is built for the long haul.

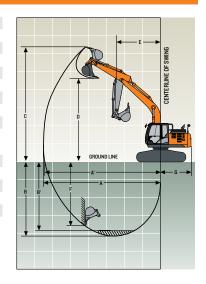
Engine	ZXI60LC-6		
Manufacturer and Model	Isuzu 4JJI		
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV		
Net Rated Power (ISO 9249)	86 kW (II6 hp) @ 2,200 rpn		
Cylinders	4		
Displacement	3.0 L (182 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
	Turbocharged, air-to-air cha	argo-oir ocolor	
Aspiration Cooling	Turbuchargeu, an-tu-an cha	ilge-all coolei	
Direct-driven, high-efficiency, suction-type fan			
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed	2.41/b. (2.1b.)		
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 axis	al-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, lo	w-effort hydraulic pilot contro	ols with shutoff lever
Cylinders			
	Bore	Rod Diameter	Stroke
Boom (2)	110 mm (4.33 in.)	80 mm (3.15 in.)	III0 mm (43.70 in.)
Arm (I)	120 mm (4.72 in.)	90 mm (3.54 in.)	1365 mm (53.74 in.)
Bucket (I)	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	ge (*		
Rollers (each side)			
Carrier Rollers	2		
Track Rollers	7		
Shoes (each side)	43		
Track			
Adjustment	Hydraulic		
Guides	Front and center		
Chain	Sealed and lubricated		
	Coalou alla labilicatea		
Ground Pressure			
	( )		
600-mm (24 in.) Triple Semi-Grouser Shoes	41 kPa (5.95 psi)		
600-mm (24 in.) Triple Semi-Grouser Shoes 700-mm (28 in.) Triple Semi-Grouser Shoes	41 kPa (5.95 psi) 35 kPa (5.08 psi)		
600-mm (24 in.) Triple Semi-Grouser Shoes 700-mm (28 in.) Triple Semi-Grouser Shoes Swing Mechanism	35 kPa (5.08 psi)		
600-mm (24 in.) Triple Semi-Grouser Shoes 700-mm (28 in.) Triple Semi-Grouser Shoes Swing Mechanism Swing Speed	35 kPa (5.08 psi) 13.3 rpm		
600-mm (24 in.) Triple Semi-Grouser Shoes 700-mm (28 in.) Triple Semi-Grouser Shoes Swing Mechanism	35 kPa (5.08 psi)		

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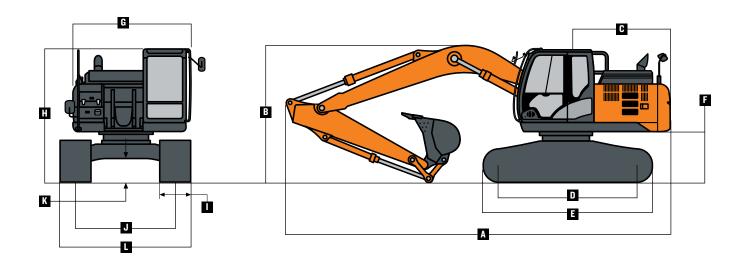
Serviceability	ZXI6OLC-6
Refill Capacities	
Fuel Tank	285 L (75.3 gal.)
Diesel Exhaust Fluid (DEF) Tank	35 L (37 qt.)
Cooling System	24 L (25.4 qt.)
Engine Oil with Filter	I7 L (18 qt.)
Hydraulic Tank	I25 L (33 gal.)
Hydraulic System	210 L (55.5 gal.)
Swing Gearbox	6.9 L (7.3 qt.)
Propel Gearbox (each)	6.8 L (7.2 qt.)
Pump Drive Gearbox	0.9 L (I qt.)
Operating Weights	
With full fuel tank; 79-kg (I75 lb.) operator; 5	28-kg (1,164 lb.) heavy-duty bucket; 3.10-m (10 ft. 2 in.) arm; 3210-kg (7,055 lb.) counterweight; and 700-m (28 in.) triple semi-grouser
shoes	
Operating Weight	17 418 kg (38,366 lb.)
Optional Components	
Undercarriage w/ Triple Semi-Grouser Shoe	s
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.)

### ZXI60LC-6

Op	erating Dimensions		
Ar	m 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.)
Α	Maximum Reach	8.87 m (29 ft. I 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.)
В	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.)



M	achine 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.)
В	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.)
Ε	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.)
Н	Cab Height	2.95 m (9 ft. 8 in.)
- 1	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.)

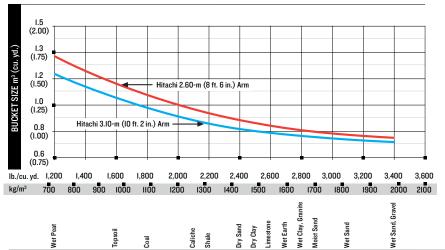


Lift Charts Boldface type indicates hydraulicall	ZX160LC-6 ly limited capacity; lightfac	ce type indicates st	ability-limited capa	cities, in kg (lb.).	Ratings at bucket lif	t hook; machine ed	uipped with 528-ks	(1,164 lb.) bucket;	standard gauge; ar	nd situated on
irm, uniform supporting surface. To with power boost).										
oad Point Height	1.5 m (	5 ft )	3.0 m	(IN ft )	4.5 m	(15 ft )	6.0 m (20 ft.)		20 ft.) 7.5 m (25 ft.)	
Horizontal Distance from	1.0 III (	J 11.)	0.0 III	(10 11.)	4.0 111	(10 11.)	0.0	(2011.)	7.0 111 (	, <b></b> 0 11. <i>)</i>
	Over Front	Over Side	Oues France	0 6:4-	Ouen Frank	Oues Cide	O	Ouen Cide	O F	Over Sid
Centerline of Rotation			Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Siu
With 2.60-m (8 ft. 6 in.) arm and 6	JU-mm (24 in.) triple semi	-grouser shoes								
6.0 m (20 ft.)							2850	2850		
4.5 m (15 ft.)					4100	4100	3850	3100		
					(8,900)	(8,900)	(8,450)	(6,650)		
3.0 m (IO ft.)			8400	8400	5450	4700	4400	2950		
5.5 (15)			(17,900)	(17,900)	(11,700)	(10,150)	(9,550)	(6,350)		
1.5 m (5 ft.)			(11,000)	(11,000)	6800	4400	4550	2800		
1.5 III (5 11.)										
					(14,700)	(9,450)	(9,800)	(6,050)		
Ground Line			5800	5800	7050	4200	4450	2700		
			(13,450)	(13,450)	(15,100)	(9,000)	(9,550)	(5,850)		
-1.5 m (-5 ft.)	5300	5300	9950	7900	6950	4150	4400	2650		
	(11,850)	(11,850)	(22,800)	(17,000)	(14,950)	(8,900)	(9,450)	(5,750)		
-3.0 m (-I0 ft.)	9850	9850	10600	8050	7050	4200				
• •	(22,250)	(22,250)	(22,900)	(17,350)	(15,100)	(9,050)				
With 2.60-m (8 ft. 6 in.) arm and 70			(==,500)	(,500)	(,)	(=,500)				
	(EO III.) Tripio Scilli	5. 04001 311003					2050	2050		
6.0 m (20 ft.)							2850	2850		
()					*/		•	A		
4.5 m (15 ft.)					4100	4100	3850	3150		
					(8,900)	(8,900)	(8,450)	(6,750)		
3.0 m (IO ft.)			8400	8400	5450	4750	4400	3000		
			(17,900)	(17,900)	(11,700)	(10,250)	(9,550)	(6,450)		
1.5 m (5 ft.)					6800	4450	4600	2850		
					(14,700)	(9,550)	(9,900)	(6,150)		
Ground Line			5800	5800	7100	4250	4500	2750		
Ground Line										
15 (50)	F000	<b>5000</b>	(13,450)	(13,450)	(15,250)	(9,150)	(9,650)	(5,900)		
-1.5 m (-5 ft.)	5300	5300	9950	8000	7050	4200	4450	2700		
	(11,850)	(11,850)	(22,800)	(17,200)	(15,100)	(9,000)	(9,550)	(5,850)		
-3.0 m (-10 ft.)	9850	9850	10 600	8150	7100	4250				
	(22,250)	(22,250)	(22,900)	(17,550)	(15,250)	(9,150)				
With 3.10-m (10 ft. 2 in.) arm and 6	00-mm (24 in.) triple semi	-grouser shoes								
6.0 m (20 ft.)							2950	2950		
,							(6,150)	(6,150)		
4.5 m (15 ft.)							3400	3150		
4.0 111 (10 11.)							(7,500)	(6,750)		
0.0 (10.6)			2052	0050	4050	4000			2000	2000
3.0 m (I0 ft.)			6950	6950	4850	4800	4000	3000	2900	2000
			(14,800)	(14,800)	(10,400)	(10,350)	(8,750)	(6,450)	(5,750)	(4,300
1.5 m (5 ft.)			7100	7100	6300	4450	4550	2850	3150	1950
			(17,200)	(17,200)	(13,650)	(9,550)	(9,850)	(6,100)	(6,800)	(4,150)
Ground Line			6400	6400	7050	4200	4450	2700	3100	1850
			(14,750)	(14,750)	(15,100)	(9,000)	(9,500)	(5,800)	(6,700)	(4,000
-1.5 m (-5 ft.)	4700	4700	9200	7800	6900	4100	4350	2650	(=,)	, .,000
	(10,550)	(10,550)	(21,000)	(16,800)		(8,800)				
20 (104)					(14,850)		(9,350)	(5,650)		
-3.0 m (-10 ft.)	8250	8250	(11 200	7900	6950	4100	4400	2650		
	(18,600)	(18,600)	(24,250)	(17,000)	(14,900)	(8,850)	(9,450)	(5,700)		
-4.5 m (-I5 ft.)			8950	8200	5850	4250				
			(19,100)	(17,600)	(12,350)	(9,250)				
With 3.10-m (10 ft. 2 in.) arm and 7	00-mm (28 in.) triple semi	i-grouser shoes								
6.0 m (20 ft.)							2950	2950		
							(6,150)	(6,150)		
4.5 m (15 ft.)							3400	3150		
4.0 III (IO II.)							(3,500)	(6,800)		
20 (10 4-)			0050	0050	4050	4050			0000	0050
3.0 m (10 ft.)			6950	6950	4850	4850	4000	3050	2900	2050
			(14,800)	(14,800)	(10,400)	(10,400)	(8,750)	(6,500)	(5,750)	(4,350
I.5 m (5 ft.)			7100	7100	6300	4500	4600	2850	3200	1950
			(17,200)	(17,200)	(13,650)	(9,650)	(9,900)	(6,150)	(6,900)	(4,200
Ground Line			6400	6400	7100	4250	4450	2750	3150	1900
			(14,750)	(14,750)	(15,250)	(9,100)	(9,600)	(5,850)	(6,750)	(4,100
-1.5 m (-5 ft.)	4700	4700	9200	7900	7000	4150	4400	2650	(0,700)	(-1,100)
-1.3 III (-3 II.)										
0.0 (10.6)	(10,550)	(10,550)	(21,000)	(17,000)	(15,000)	(8,900)	(9,450)	(5,750)		
-3.0 m (-10 ft.)	8250	8250	11 200	8000	7000	4150	4450	2700		
	(18,600)	(18,600)	(24,250)	(17,200)	(15,050)	(8,950)	(9,550)	(5,800)		
-4.5 m (-15 ft.)			8950	8300	5850	4300				
			(19,100)	(17,850)	(12,350)	(9,350)				

#### Buckets ZXI60LC-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 I50 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

Type Bucket		Bucket V	Bucket Width		Bucket Capacity		Weight
		mm	in.	m³	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*							

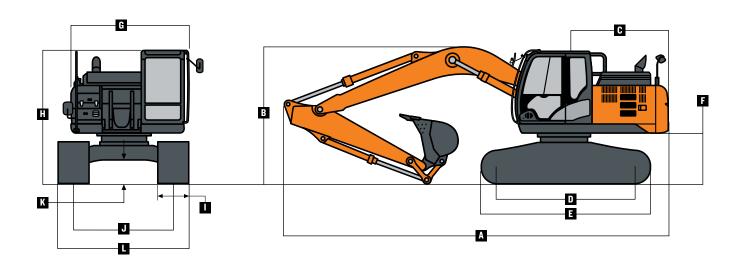


<sup>\*</sup>Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, for flat and level operations,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

Engine	ZXI80LC-5		
Manufacturer and Model	Isuzu 4JJI		
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV	1	
Net Rated Power (ISO 9249)	86 kW (II6 hp) @ 2,200 rpr		
Cylinders	4	•	
Displacement	3.0 L (182 cu. in.)		
Off-Level Capacity	70% (35 deg.)		
Aspiration	Turbocharged, air-to-air cha	orgo-air coolar	
Cooling	Turbochargeu, an To-an Cha	arge-air coolei	
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	O	-1 -1-4	
Main Pumps	2 variable-displacement axi	al-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, lo	w-effort hydraulic nilot contr	ols with shutoff lever
-		ii eneri nyaraane pilet eenii	
Cylinders			
Cylinders	Bore	Rod Diameter	Stroke
Cylinders  Boom (2)	Bore 120 mm (4.72 in.)	Rod Diameter 85 mm (3.35 in.)	Stroke 1123 mm (44.21 in.)
Cylinders	Bore	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Cylinders  Boom (2)	Bore 120 mm (4.72 in.)	Rod Diameter 85 mm (3.35 in.)	Stroke 1123 mm (44.21 in.)
Gylinders  Boom (2) Arm (1)	Bore 120 mm (4.72 in.) 125 mm (4.92 in.)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1)	Bore 120 mm (4.72 in.) 125 mm (4.92 in.)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt)	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.) 2 890 CCA	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.) 2 890 CCA 50 amp	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.) 2 890 CCA 50 amp	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (I) Bucket (I) Electrical Number of Batteries (I2 volt) Battery Capacity Alternator Rating Work Lights Undercarriage	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.) 2 890 CCA 50 amp	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (I2 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side)	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.) 2 890 CCA 50 amp 2 halogen (one mounted on	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (I2 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.) 2 890 CCA 50 amp 2 halogen (one mounted on	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side)	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain Ground Pressure	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center Sealed and lubricated	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain Ground Pressure 600-mm (24 in.) Triple Semi-Grouser Shoes	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center Sealed and lubricated  41 kPa (5.95 psi)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (I2 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain Ground Pressure 600-mm (24 in.) Triple Semi-Grouser Shoes 700-mm (28 in.) Triple Semi-Grouser Shoes	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center Sealed and lubricated  41 kPa (5.95 psi) 36 kPa (5.22 psi)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain Ground Pressure 600-mm (24 in.) Triple Semi-Grouser Shoes 900-mm (32 in.) Triple Semi-Grouser Shoes	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center Sealed and lubricated  41 kPa (5.95 psi)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (I2 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain Ground Pressure 600-mm (24 in.) Triple Semi-Grouser Shoes 900-mm (32 in.) Triple Semi-Grouser Shoes	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center Sealed and lubricated  41 kPa (5.95 psi) 36 kPa (5.22 psi) 32 kPa (4.64 psi)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)
Boom (2) Arm (1) Bucket (1) Electrical Number of Batteries (12 volt) Battery Capacity Alternator Rating Work Lights Undercarriage Rollers (each side) Carrier Rollers Track Rollers Shoes (each side) Track Adjustment Guides Chain Ground Pressure 600-mm (24 in.) Triple Semi-Grouser Shoes 900-mm (32 in.) Triple Semi-Grouser Shoes	Bore 120 mm (4.72 in.) 125 mm (4.92 in.) 105 mm (4.13 in.)  2 890 CCA 50 amp 2 halogen (one mounted on  2 7 46  Hydraulic Center Sealed and lubricated  41 kPa (5.95 psi) 36 kPa (5.22 psi)	Rod Diameter 85 mm (3.35 in.) 90 mm (3.54 in.) 75 mm (2.95 in.)	Stroke 1123 mm (44.21 in.) 1371 mm (53.98 in.)

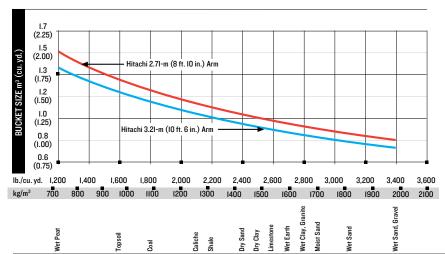
Serviceability	ZXI80LC-6		
Refill Capacities			
Fuel Tank	285 L (75.3 gal.)		
Diesel Exhaust Fluid (DEF) Tank	35 L (37 qt.)		
Cooling System	24 L (25.4 qt.)		
Engine Oil with Filter	17 L (18 gt.)		
Hydraulic Tank	125 L (33 gal.)		
Hydraulic System	220 L (58.I gal.)		
Swing Gearbox	6.9 L (7.3 gt.)		
Propel Gearbox (each)	6.8 L (7.2 qt.)		
Pump Drive Gearbox	0.9 L (I qt.)		
Operating Weights	(1)		
With full fuel tank; 79-kg (175 lb.) operator; 600-	kg (1,323 lb.) heavy-duty buc	ket; 3.2I-m (IO ft. 6 in.) arm; 3900-kg (8,598 lb.) cou	unterweight; and 700-mm (28 in.) triple semi-
grouser shoes			, , ,
Operating Weight	19 504 kg (42,960 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.)	<b>←</b> E →
ISO	95 kN (21,358 lb.)	84 kN (18,885 lb.)	A SE
Bucket Digging Force			SPALE RUNE OF SWING
SAE	112 kN (25,180 lb.)	112 kN (25,180 lb.)	IN E
ISO	127 kN (28,552 lb.)	127 kN (28,552 lb.)	
A Maximum Reach	9.43 m (30 ft. II 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.)	GROUND LINE
C Maximum Cutting Height	9.40 m (30 ft. 10 in.)	9.79 m (32 ft. 1 in.)	A A A A A A A A A A A A A A A A A A A
D Maximum Dumping Height	6.57 m (21 ft. 7 in.)	6.93 m (22 ft. 9 in.)	A' G
E Minimum Swing Radius	3.13 m (10 ft. 3 in.)	3.13 m (10 ft. 3 in.)	B B' F
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.)	
	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	

Ma	chine Dimensions	ZXI80LC-6	
A	Overall Length w/ Arm		
	2.71 m (8 ft. 10 in.)	9.04 m (29 ft. 8 in.)	
	3.2I m (IO ft. 6 in.)	9.04 m (29 ft. 8 in.)	
В	Overall Height w/ Arm		
	2.71 m (8 ft. 10 in.)	3.08 m (10 ft. 1 in.)	
	3.2I m (IO ft. 6 in.)	3.39 m (II ft. I in.)	
C	Rear-End Length/Swing Radius	2.55 m (8 ft. 4 in.)	
D	Distance Between Idler/Sprocket Centerline	3.37 m (II ft. I in.)	
Ε	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.)	
Н	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	ZXI80LC-6									
Boldface type indicates hydraulic firm, uniform supporting surface					•			, ,		
(with power boost).  Load Point Height	1.5 m (5	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	Our Frant	Oues Cide	Our Frant	Over Cide	O Fuent	Over Cide	O	Over Cide	Ouen France	Over Cide
Centerline of Rotation With 2.7I-m (8 ft. IO in.) arm and	Over Front 1700-mm (28 in.) triple semi-	Over Side grouser shoes	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
6.0 m (20 ft.)	. 1 00 mm (20 m) mpio com	5. 04.00. 0.1000					3950 (8,700)	3900 (8,400)		
4.5 m (I5 ft.)					4800 (10,400)	4800 (10,400)	4350 (9,450)	3800 (8,200)		
3.0 m (IO ft.)					6500	5750	5100	3650	4,000	2450
15 (5 (1)					(14,000)	(12,450)	(11,050)	(7,800)	(8,550)	(5,300)
1.5 m (5 ft.)					8150 (17,600)	5350 (II,550)	5600 (I2,050)	3450 (7,400)	3,900 (8,400)	2400 (5,100)
Ground Line			4300	4300	8750	5150	5450	3300	3,850	2300
15/ 54)	4600	4600	(10,050)	(10,050)	(18,800)	(11,050)	(11,750)	(7,100)	(8,250)	(5,000)
-1.5 m (-5 ft.)	(10,500)	(10,400)	8250 (18,800)	8250 (18,800)	8700 (18,650)	5050 (10,900)	5400 (II,600)	3250 (7,000)		
-3.0 m (-10 ft.)	8750	8750	12 750	10 150	8700	5100	5450	3300		
45 ( 154)	(19,850)	(19,750)	(27,600)	(21,750)	(18,750)	(11,000)	(11,700)	(7,100)		
-4.5 m (-15 ft.)			10 100 (21,650)	10 100 (21,650)	6900 (14,500)	5300 (II,500)				
With 3.21-m (10 ft. 6 in.) arm and	d 600-mm (24 in.) triple semi-	grouser shoes	(=:,000)	(=:,500)	(- 1,000)	(,500)				
6.0 m (20 ft.)							3420	3420		
4.5 m (I5 ft.)							(7,550) 3870	( <b>7,550</b> ) 3800	3290	2510
4.0 III (10 II.)							(8,450)	(8,160)	(6,700)	(5,370)
3.0 m (10 ft.)			8920	8920	5810	5790	4680	3610	3930	2430
1.5 m (5 ft.)			(18,930)	(18,930)	(12,500) 7610	(I2,480) 5340	(10,150) 5540	(7,760) 3400	(8,440) 3820	(5,200) 2330
1.3 III (3 11.)					(16,410)	(11,510)	(11,900)	(7,310)	(8,210)	(4,990)
Ground Line			4650	4650	8620	5050	5350	3230	3730	2240
(E / E4)	3930	3930	(10,760)	(10,760)	(18,500)	(10,870)	(11,510)	(6,960)	(8,020)	(4,820)
-1.5 m (-5 ft.)	(8,830)	(8,830)	7390 (16,860)	7,390 (16,860)	8480 (18,190)	4930 (10,600)	5260 (II,300)	3I50 (6,770)	3690 (7,940)	2210 (4,740)
-3.0 m (-10 ft.)	7200	7200	11 700	9800	8500	4940	5260	3150	(1,010)	(1,112)
45 (456)	(16,210)	(16,210)	(26,760)	(21,010)	(18,230)	(10,640)	(11,320)	(6,790)		
-4.5 m (-I5 ft.)	(26,400)	(26,400)	II 300 (24,250)	10 080 (21,630)	7670 (16,400)	5090 (10,970)				
With 3.21-m (10 ft. 6 in.) arm and	d 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	3870	3290	2560
0.0 ((0.6)						F010	(8,450)	(8,310)	(6,700)	(5,480)
3.0 m (IO 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.)			(10,000)	(10,000)	7610	5440	5580	3470	3900	2380
					(16,410)	(11,730)	(12,080)	(7,460)	(8,380)	(5,100)
Ground Line			4650 (10,760)	4650 (10,760)	8790 (18,850)	5150 (11,080)	5460 (II,740)	3300 (7,100)	3810 (8,190)	2300 (4,930)
-1.5 m (-5 ft.)	3930	3930	7390	7390	8650	5030	5370	3220	3770	2260
	(8,830)	(8,830)	(16,860)	(16,860)	(18,550)	(10,820)	(11,530)	(6,920)	(8,110)	(4,850)
-3.0 m (-10 ft.)	7200 (16,210)	7200 (16,210)	II 700 (26,760)	9 980 (21,400)	8660 (18,580)	5040 (10,850)	5370 (11,550)	3220 (6,930)		
-4.5 m (-I5 ft.)	11 630	11 630	11 300	10 260	7670	5190	(11,000)	(0,000)		
With 3.21-m (10 ft. 6 in.) arm and	(26,400) 1 800-mm (32 in ) triple semi-	(26,400)	(24,250)	(22,020)	(16,400)	(11,180)				
6.0 m (20 ft.)	2000 mm (OE m.) mpic scilli-	D. 34001 311003					3420	3420		
.= ()							(7,550)	(7,550)		•
4.5 m (I5 ft.)							3870 (8,450)	<b>3870</b> (8,420)	3290 (6,700)	2600 (5,570)
3.0 m (IO ft.)			8920	8920	5810	5810	4680	3730	4070	2520
15 (5 (1)			(18,930)	(18,930)	(12,500)	(12,500)	(10,150)	(8,020)	(8,740)	(5,400)
1.5 m (5 ft.)					7610 (16,410)	5520 (II,890)	5580 (12,080)	3520 (7,570)	3960 (8,510)	2420 (5,190)
Ground Line			4650	4650	8830	5220	5540	3350	3870	2340
(5 ( 5 ( )			(10,760)	(10,760)	(19,090)	(11,240)	(11,910)	(7,210)	(8,320)	(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	7200	11700	10 120	8790	5120	5450	3270	(0,270)	(-1,040)
	(16,210)	(16,210)	(26,760)	(21,690)	(18,850)	(11,010)	(11,730)	(7,040)		
-4.5 m (-15 ft.)	(26.400)	(1630) (26,400)	(11 300 (24 250)	10 390 (22,310)	7670 (16.400)	5260 (11.340)				
	(26,400)	(20,400)	(24,250)	(22,310)	(16,400)	(11,340)				

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 sid	le cutters add 6 inches (150 mm) to	bucket widths. Ca	apacities are SAE heap	ed 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*											



<sup>\*</sup>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**

160	180	Engine	160	180	Upperstructure	160	180	Operator's Station (continued)
•	•	Auto-idle system	100	100	Right-hand and left-hand mirrors	100	100	Multifunction, color LCD monitor with:
•	•	Automatic belt-tension device		•	Vandal locks with ignition key: Cab door /	•		Diagnostic capability / Multiple-language
•	•	Batteries (2 – I2 volt)			Service doors / Toolbox			capabilities / Maintenance tracking / Clock
_	•	Coolant recovery tank	•	•	Debris screen			System monitoring with alarm features:
_	•	Dual-element dry-type air filter		•	Remote-mounted engine oil and fuel filters			Auto-idle indicator, engine-air-cleaner-
•		Electronic engine control			Service handrails			restriction indicator light, engine check,
_	•	Enclosed fan guard		Ť	Front Attachments			engine-coolant-temperature indicator light
•		(conforms to SAE JI308)	•	•	Centralized lubrication system			with audible alarm, engine-oil-pressure
•	•	Engine coolant to -37 deg. C (-34 deg. F)		•	Dirt seals on all bucket pins			indicator light with audible alarm,
•	•	Programmable auto shutdown	•	•	Less boom and arm			low-alternator-charge indicator light,
•	•	Fuel filter with water separator		•	Oil-impregnated bushings			low-fuel indicator light, low DEF indication
•	•	Full-flow oil filter			Reinforced resin thrust plates			with audible alarm, fault-code-alert
•		Turbocharger with charge air cooler		•	Tungsten carbide thermal coating on			indicator, fuel-rate display, wiper-mode
•	•	500-hour engine-oil-change interval		•	arm-to-bucket joint			indicator, work-lights-on indicator and
•	•	70% (35 deg.) off-level capability	<b>A</b>		Arm, 2.60 m (8 ft. 6 in.)			work-mode indicator
•	<u> </u>	Chrome exhaust stack		<b>A</b>	Arm, 2.71 m (8 ft. 10 in.)	•	•	Motion alarm with cancel switch (conforms
		Hydraulic System	<b>A</b>	_	Arm, 3.10 m (10 ft. 2 in.)			to SAE J994)
	•	Reduced-drift valve for boom down, arm in		<u> </u>	Arm, 3.21 m (10 ft. 6 in.)	•	•	Power-boost switch on right console lever
•	•	Auxiliary hydraulic valve section	<b>A</b>		Attachment quick-couplers	•	•	Auxiliary hydraulic control switches in right
•	•	Spring-applied, hydraulically released			Boom cylinder with plumbing to mainframe			console lever
•		automatic swing brake		_	less boom and arm	•	•	SAE 2-lever control pattern
_	•	Auxiliary hydraulic-flow adjustments	<b>A</b>	<b>A</b>	Buckets: Heavy duty / Side cutters and teeth	•	•	Seat belt, 51 mm (2 in.), retractable
•	•	through monitor			Material clamps	•	•	Tinted glass
•	•	Auto power lift			Operator's Station	•	•	Transparent tinted overhead hatch
•	•	5,000-hour hydraulic-oil-change interval	•	•	Meets ISO 12117-2 for ROPS	•	•	Hot/cold beverage compartment
•	•	Hydraulic-oil-sampling valve	•	•	Adjustable independent-control positions	<b>A</b>	<b>A</b>	Air-suspension heated seat
<u> </u>	<u> </u>	Auxiliary hydraulic lines			(levers-to-seat, seat-to-pedals)	<b>A</b>	<b>A</b>	Hydraulic oil filter restriction indicator light
_	_	Auxiliary pilot and electric controls	•	•	AM/FM radio	_	<b>A</b>	Protection screens for cab front, rear
_		Hydraulic filter restriction indicator kit	•	•	Auto climate control/air conditioner/heater/			and side
_	_	Load-lowering control device			pressurizer	<b>A</b>	<b>A</b>	Seat belt, 76 mm (3 in.), non-retractable
_		Single-pedal propel control	•	•	Built-in Operator's Manual storage	_	<b>A</b>	Window vandal-protection covers
		Control pattern change valve	•	•	compartment and manual			Electrical
	_	Undercarriage  Undercarriage		•	Cell-phone power outlet, I2 volt, 60 watt,	•	•	50-amp alternator
•	•	Planetary drive with axial-piston motors			5 amp	•	•	Battery disconnect switch
•	•	Propel motor shields		•	Coat hook	•	•	Blade-type multi-fused circuits
•	•	Spring-applied, hydraulically released	•	•	Deluxe suspension cloth seat with 100-mm	•	•	Positive-terminal battery covers
•	•	automatic propel brake			(4 in.) adjustable armrests	•	•	ZXLink™ wireless communication system
_	•	Track guides, front idler and center	•	•	Floor mat			(available in specific countries; see your
•		2-speed propel with automatic shift		•	Front windshield wiper with intermittent			dealer for details)
•	•	Upper carrier rollers (2)			speeds	•	•	Rearview camera
•		Sealed and lubricated track chain		•	Gauges (illuminated): Diesel Exhaust Fluid	<u> </u>	<u> </u>	Cab extension wiring harness
_	_	Triple semi-grouser shoes, 600 mm (24 in.)	_	•	(DEF) / Engine coolant / Fuel			Lights
_	<u> </u>	. ,	•	•	Horn, electric	•	•	Work lights: Halogen / I mounted on boom /
<u> </u>		Triple semi-grouper shoes, 700 mm (28 in.)		•	Hour meter, electric	-	-	mounted on frame
	_	Triple semi-grouser shoes, 800 mm (32 in.)	•	•	Hydraulic shutoff lever, all controls	_	<b>A</b>	2 lights mounted on cab / I mounted on righ
					Hydraulic warm-up control			side of boom
			•	•	Interior light			5.40 C. 230III
					Large cup holder			
			_	•	Lai 60 out illiaci			

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Machine Information Center (MIC)
Mode selectors (illuminated): Power modes
(3) / Travel modes (2 with automatic shift) /

Work mode (I)

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