HITACHI

ZX690LC-7 | Preliminary ZAXIS-7 series

Reliable Solutions



ZA/IS690

HYDRAULIC EXCAVATOR

Model code: ZX690LC-7H

Engine rated power, net: 465 hp (347 kW)

Operating weight: 152,340-152,780 lb. (69,100-69,300 kg)

Bucket capacity: 3.8-5.2 yd3 (2.9-4.0 m3)

SPECIFICATIONS

ENGINE	
Model	Isuzu 6WG1
Туре	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC + SCR system
No. of cylinders	6
Rated power	
ISO 14396: 2002 gross	467 hp (348 kW) at 1,800 min ⁻¹
ISO 9249: 2007 net	465 hp (347 kW) at 1,800 min ⁻¹
Maximum torque	1 460 lbf (1,980 Nm) at 1,500 min ⁻¹
Piston displacement	956.917 cu .in. (15.681 L)
Bore and stroke	5.8" x 6.1" (147 mm x 154 mm)
Batteries	2 x 12 V / 147 Ah

HYDRAULIC SYSTEM								
Hydraulic Pumps								
Main pumps	2 varia	2 variable displacement axial piston pumps						
Maximum oil flow	2 x 12	2 x 129 gal/min (489 L/min)						
Pilot pump	1 gear	pump						
Maximum oil flow	13.2 g	al/min (50.0 L/min)						
Hydraulic Motors								
Travel	2 axial	piston motors with	parking brake					
Swing	2 axial	piston motors						
Relief Valve Setting	S							
Implement circuit	4,626.	4,626.7 psi (31.9 MPa)						
Swing circuit	4,264.	4,264.1 psi (29.4 MPa)						
Travel circuit	4,974.	4,974.8 psi (34.3 MPa)						
Pilot circuit	565.6	565.6 psi (3.9 MPa)						
Power boost	4,974.	.,974.8 psi (34.3 MPa)						
Hydraulic Cylinders	;							
	Quantity	Bore	Rod diameter					
Boom	2	7.5" (190 mm)	5.1" (130 mm)					
Arm	1	7.9" (200 mm)	5.5" (140 mm)					
Bucket	1	7.1" (180 mm)	5.1" (130 mm)					

UPPERSTRUCTURE						
Revolving Frame						
D-section frame for re	esistance to deformation.					
Swing Device						
Axial piston motor with planetary reduction gear is bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.						
Swing speed 9.0 min ⁻¹						
Swing torque 143,086 lbf (194.0 kNm)						

UNDERCARRIAGE									
Tracks	Tracks								
Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.									
Numbers of Rolle	Numbers of Rollers and Shoes on Each Side								
Upper rollers	3								
Lower rollers 8									
Track shoes	47								
Track guards	Track guards 2								
Travel Device	Travel Device								
Each track driven by axial piston motor through reduction gear for counterrotation of the tracks. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.									
Travel speeds	Fravel speeds High: 0 to 3.1 mph (0 to 5.0 km/h) Low: 0 to 2.1 mph (0 to 3.4 km/h)								
Maximum traction force 109,257 lbf (486 kN)									
Gradeability	70% (35 degree) continuous								

SERVICE REFILL CAPACITIES							
Fuel tank	237.6 gal (900.0 L)						
Engine coolant	23.8 gal (90.0 L)						
Engine oil	16.4 gal (62.0 L)						
Pump drive	1.6 gal (6.2 L)						
Swing device (each side)	2.8 gal (10.5 L)						
Travel device (each side)	3.6 gal (13.5 L)						
Hydraulic system	198.0 gal (750.0 L)						
Hydraulic oil tank	100.3 gal (380.0 L)						
DEF/AdBlue® tank	25.1 gal (95.0 L)						

ENVIRONMENT					
Engine Emissions	EPA Final Tier 4 / EU Stage IV				
Sounds Level					
Sound level in cab according to ISO 6396: 2008	LpA 74 dB(A)				
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC	LwA 108 dB(A)				

WEIGHTS AND GROUND PRESSURE

ZX690LC-7H

Bucket Capacity	Boom type	Arm type	Arm type Shoe		Operating weight	Ground pressure	
ISO7451: 2007 heaped, yd³ (m³)	ft-in (m)	ft-in (m)	grouser type	in (mm)	lb (kg)	psi (kPa)	
3.8 (2.9)	051.7" (7.0) 1.1	11' 10" (3.6)	Double	35" (900)	152,340 (69,100)	11.02 (76)	
Rock bucket	25' 7" (7.8) H	13' 9" (4.2)	Double	35" (900)	152,780 (69,300)	11.02 (76)	

BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

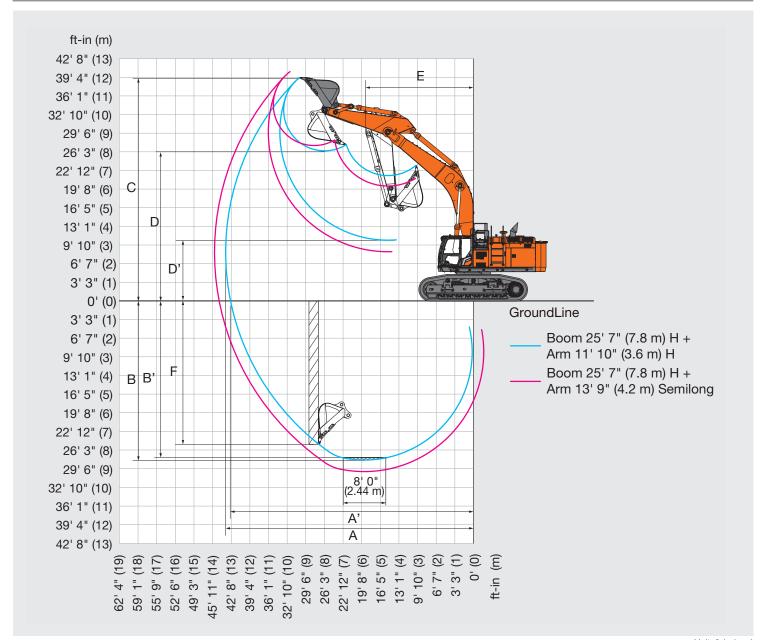
	ZX690LC-7H						
Boom length	Boom 25' 7" (7.8 m) H	Boom 25' 7" (7.8 m) H					
Arm length	Arm 11' 10" (3.6 m) H	Arm 13' 9" (4.2 m) Semilong					
Bucket digging force* ISO 6015: 2006	72,838 (324)	72,838 (324)					
Arm crowd force* ISO 6015: 2006	57,326 (255)	51,931 (231)					

^{*} At power boost

SPECIFICATIONS

ZX690LC-7H

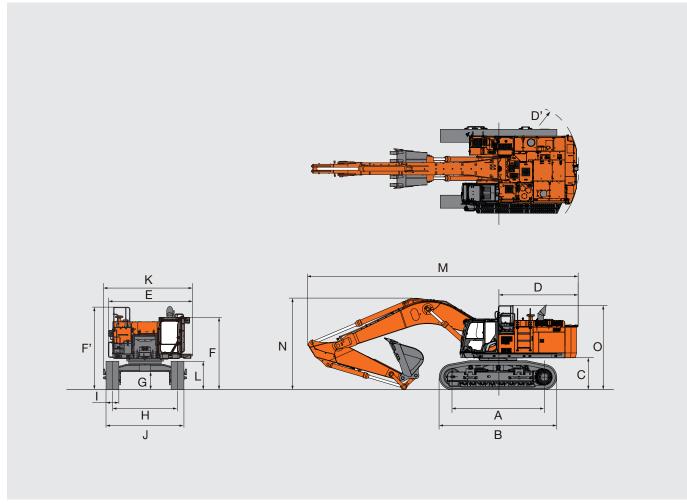
WORKING RANGES



Unit: ft-in (mm)

	ZX690LC-7H							
Boom length	Boom 25' 7" (7.8 m) H	Boom 25' 7" (7.8 m) H						
Arm length	Arm 11' 10" (3.6 m) H	Arm 13' 9" (4.2 m) Semilong						
A Max. digging reach	43' 7" (13,280)	45' 6" (13,880)						
A' Max. digging reach (on ground)	42' 9" (13,030)	44' 9" (13,630)						
B Max. digging depth	28' 1" (8,560)	30' 1" (9,180)						
B' Max. digging depth for 8' 0" (2.44 m) level	27' 7" (8,420)	29' 9" (9,060)						
C Max. cutting height	39' 2" (11, 940)	40' 3" (12,260)						
D Max. dumping height	26' 4" (8,020)	27' 3" (8,300)						
D' Min. dumping height	10' 7" (3,230)	8' 7" (2,610)						
E Min. swing radius	18' 12" (5,780)	18' 11" (5,760)						
F Max. vertical wall digging depth	25' 4" (7,720)	27' 11" (8,510)						

DIMENSIONS



Unit: ft-in (mm)

ZX690LC-7H ⁻² 15' 1" (4,590) 19' 2" (5,840)
\ \cdot
10, 2, (2, 840)
19 2 (3,040)
5' 1" (1,540)
13' 2" (4,020)
13' 1" (3,980)
13' 5" (4,090)
12' 0" (3,660)
2' 10" (860)
10' 10" (3,300) / 9' 3" (2,830)
G 2' 11" (900)
13' 9" (4,200)/12' 3" (3,730)
14' 4" (4,360)
4' 9" (1,440)
44' 0" (13,400)
16' 4" (4,980)
13' 11" (4,230)

^{*1} Excluding track shoe lug

 $^{^{\}mbox{\tiny 2}}$ Equipped with Boom 25' 7" (7.8 m) H and Arm 13' 9" (4.2 m) Semilong

G: Double grouser shoe

MACHINE CAPACITIES

Notes: 1. Ratings are based on ISO 10567: 2007.

- 2. Machine capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
- 4. *Indicates load limited by hydraulic capacity.
- 5. 0 ft (0 m) = Ground.
- 6. Each machine capacities values are applicable when selecting optional attachment basic piping and hose rupture valve for boom and arm.

For machine capacities, subtract installed attachment and quick hitch weight from machine capacities.

To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from the table and deduct weight of installed attachment and quick hitch. Optional feature may affect machine performance.

A: Load radius

B: Load point height

C: Machine capacity

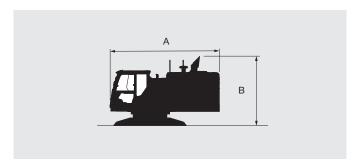
	Load			Load radius								,	At max. read	·h		
Conditions	point		3.0 m)		4.5 m)		(6.0 m)	25 ft ((7.5 m)		(9.0 m)	35 ft (⁻	10.5 m)		i max. reac	,11
height ft (m)		ů	₽	ď	₽	ů	₽	ů	₽	ů	₽	ů	₽	ů	₽	ft-in (meter
	25' (7.5)									30,000* (13,590)*	30,000* (13,590)*			22,500* (10,180)*	22,500* (10,180)*	32' 7' (9.92)
	20' (6.0)							34,800* (15,750)*	34,800* (15,750)*	31,500* (14,260)*	30,700 (13,890)	23,600* (10,690)*	23,600* (10,690)*	22,600* (10,220)*	22,600* (10,220)*	34' 7 (10.54
	15' (4.5)					47,800* (21,640)*	47,800* (21,640)*	38,700* (17,550)*	38,700* (17,550)*	33,700* (15,260)*	29,700 (13,460)	30,700* (13,900)*	23,400 (10,580)	23,200* (10,500)*	21,900 (9,910)	35' 10 (10.9)
Boom 25' 7" 7.8 m) H	10' (3.0)					54,700* (24,790)*	51,300 (23,230)	42,800* (19,370)*	37,300 (16,900)	36,000* (16,320)*	28,700 (13,000)	31,500 (14,260)	22,800 (10,330)	24,400* (11,050)*	21,000 (9,500)	36' 4 (11.0
Arm 11' 10" (3.6 m) H	5' (1.5)					59,300* (26,860)*	49,100 (22,240)	45,900* (20,800)*	35,900 (16,250)	38,000* (17,220)*	27,800 (12,590)	31,000 (14,020)	22,300 (10,100)	26,300* (11,910)*	20,800 (9,390)	36' 3 (11.0
Counter- weight	0 (Ground)			36,700* (16,620)*	36,700* (16,620)*	60,900* (27,600)*	48,000 (21,740)	47,600* (21,580)*	34,900 (15,830)	38,100 (17,270)	27,200 (12,310)	30,600 (13,860)	22,000 (9,950)	29,200* (13,240)*	21,200 (9,590)	35' 4 (10.7
22,928 (10,400 kg)	-5' (-1.5)			55,900* (25,340)*	55,900* (25,340)*	60,100* (27,220)*	47,600 (21,580)	47,600* (21,580)*	34,500 (15,640)	37,800 (17,120)	26,900 (12,170)			31,300 (14,190)	22,500 (10,170)	33' 1 (10.3
	-10' (-3.0)	54,200* (24,560)*	54,200* (24,560)*	72,400* (32,800)*	72,400* (32,800)*	56,900* (25,780)*	47,800 (21,680)	45,600* (20,650)*	34,600 (15,660)	36,900* (16,710)*	27,000 (12,210)			33,800* (15,300)*	25,000 (11,310)	31' 4 (9.58
	-15' (-4.5)	79,000* (35,800)*	79,000* (35,800)*	63,600* (28,810)*	63,600* (28,810)*	50,800* (23,000)*	48,600 (22,010)	40,500* (18,350)*	35,100 (15,910)					34,100* (15,440)*	29,900 (13,520)	27' 1 (8.48
	-20' (-6.0)			49,500* (22,430)*	49,500* (22,430)*	39,400* (17,860)*	39,400* (17,860)*							32,900* (14,880)*	32,900* (14,880)*	22' 8 (6.92
	25' (7.5)									27,800* (12,580)*	27,800* (12,580)*	20,500* (9,260)*	20,500* (9,260)*	19,100* (8,620)*	19,100* (8,620)*	34' 9 (10.5
	20' (6.0)									29,500* (13,370)*	29,500* (13,370)*	27,900* (12,650)*	24,100 (10,900)	19,100* (8,630)*	19,100* (8,630)*	36' 8 (11.1
	15' (4.5)					44,200* (20,010)*	44,200* (20,010)*	36,400* (16,490)*	36,400* (16,490)*	31,900* (14,460)*	30,000 (13,570)	29,200* (13,200)*	23,500 (10,650)	19,500* (8,830)*	19,500* (8,830)*	37' 1 (11.5
300m 25' 7" 7.8 m) H	10' (3.0)					51,600* (23,400)*	51,600* (23,400)*	40,700* (18,450)*	37,700 (17,070)	34,500* (15,630)*	28,900 (13,070)	30,600* (13,870)*	22,900 (10,360)	20,400* (9,220)*	19,300 (8,750)	38' ⁴ (11.6
Arm 13' 9" 4.2 m)	5' (1.5)					57,200* (25,930)*	49,500 (22,450)	44,300* (20,100)*	36,100 (16,340)	36,800* (16,680)*	27,900 (12,610)	30,900 (14,010)	22,300 (10,080)	21,800* (9,850)*	19,100 (8,640)	38' 2 (11.6
Semilong Counter-	0 (Ground)			39,200* (17,750)*	39,200* (17,750)*	60,100* (27,220)*	48,000 (21,760)	46,700* (21,170)*	34,900 (15,820)	38,100 (17,240)	27,100 (12,260)	30,400 (13,780)	21,800 (9,870)	23,900* (10,810)*	19,400 (8,790)	37' 5 (11.4
veight 22,928 10,400 kg)	-5' (-1.5)	31,100* (14,070)*	31,100* (14,070)*	52,900* (23,950)*	52,900* (23,950)*	60,300* (27,350)*	47,300 (21,450)	47,400* (21,510)*	34,300 (15,540)	37,600 (17,010)	26,600 (12,060)	30,200 (13,670)	21,600 (9,760)	27,100* (12,270)*	20,400 (9,240)	35' 1 (10.9
	-10' (-3.0)	47,700* (21,620)*	47,700* (21,620)*	72,000* (32,630)*	72,000* (32,630)*	58,300* (26,400)*	47,300 (21,440)	46,300* (20,990)*	34,200 (15,470)	37,500 (16,970)	26,500 (12,020)			31,300 (14,190)	22,400 (10,140)	33' 1
	-15' (-4.5)	67,600* (30,630)*	67,600* (30,630)*	68,400* (31,000)*	68,400* (31,000)*	53,500* (24,240)*	47,800 (21,670)	42,700* (19,350)*	34,500 (15,620)	33,800* (15,310)*	26,900 (12,200)			32,200* (14,600)*	26,000 (11,790)	30' 4 (9.2
	-20' (-6.0)			56,500* (25,620)*	56,500* (25,620)*	44,700* (20,250)*	44,700* (20,250)*	34,500* (15,640)*	34,500* (15,640)*					32,000* (14,500)*	32,000* (14,500)*	25' ! (7.8

NOTES

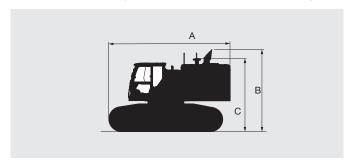
TRANSPORTATION

ZX690LC-7H

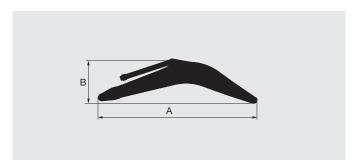
UPPERSTRUCTURE



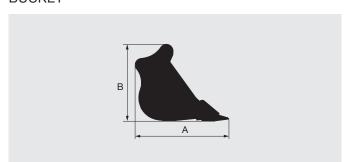
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



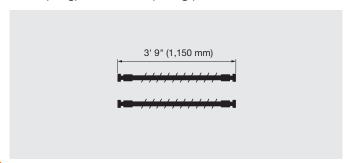
BOOM



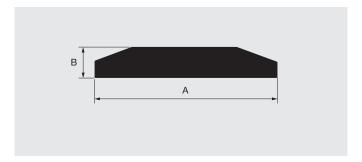
BUCKET



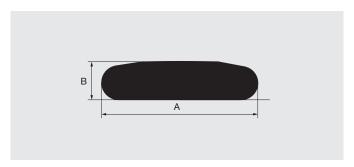
HOSE OF BOOM CYLINDERS 15 lb (7 kg) X 2 / 22 lb (10 kg) X 2



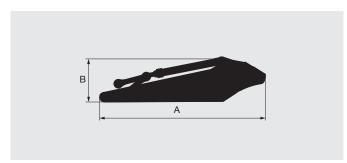
COUNTERWEIGHT



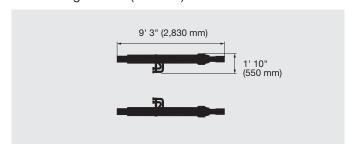
SIDE FRAME



ARM



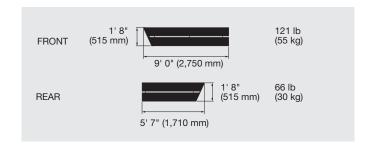
BOOM CYLINDERS 1,213 lbs (550 kg) X 2 Overall height: 1' 3" (380 mm)



LEFT SIDEWALK

Overall height FRONT: 0' 8" (195 mm) /

REAR: 0' 6" (150 mm)



UPPERSTRUCTURE

A	B	Overall width ft-in (mm)	Weight
ft-in (mm)	ft-in (mm)		Ib (kg)
17' 1" (5,210)	10' 11" (3,320)	11' 3" (3,420)	49,869 (22,620)

COUNTERWEIGHT

A	B	Overall width ft-in (mm)	Weight
ft-in (mm)	ft-in (mm)		Ib (kg)
11' 0" (3,360)	2' 0" (616)	5' 5" (1,660)	22,928 (10,400) 21,605 (9,800)*1

^{*1} With counterweight removal system

BASIC MACHINE (WITHOUT COUNTERWEIGHT)

Shoe width inch (mm)	A ft-in (mm)	B ft-in (mm)	C*1 ft-in (mm)	Overall width*2 ft-in (mm)	Weight Ib (kg)
35" (900)	20' 6" (6,240)	13' 11" (4,239)	12' 4" (3,760)	12' 3" (3,730)	99,627 (45,190)

SIDE FRAME

Shoe width inch (mm)	A ft-in (mm)	B ft-in (mm)	Overall width ft-in (mm)	Weight Ib (kg)
35" (900)	19' 2" (5,850)	4' 9" (1,450)	4' 4" (1,320)	31,636 (14,350)

воом

Boom length	A	B	Overall width	Weight
ft-in (mm)	ft-in (mm)	ft-in (mm)	ft-in (mm)	Ib (kg)
25' 7" (7.8) H	26' 8" (8,130)	7' 8" (2,330)	4' 72 (1,390)	

ARM

Arm length ft-in (mm)	A ft-in (mm)	B ft-in (mm)	Overall width ft-in (mm)	Weight Ib (kg)
11' 10" (3.6) H	16' 9" (5,110)	4' 8" (1,430)	2' 7" (790)	8,025 (3,640)
13' 9" (4.2) Semilong	18' 9" (5,710)	4' 7" (1,390)	2' 7" (800)	8,508 (3,859)

BUCKET

Bucket	Capacity, yd ³ (m ³) ISO 7451: 2007 heaped	A ft-in (mm)	B ft-in (mm)	Overall width ft-in (mm)	Weight Ib (kg)
Rock bucket	3.8 (2.9)	7' 6" (2,290)	5' 10" (1,770)	5' 7" (1,690)	6,283 (2,850)

^{*1} Without exhaust funnel
*2 Undercarriage retracted

EQUIPMENT

ENGINE Aftertreatment device Air cleaner double filters • Alternator 90 A Auto idle system Auto shut-down control Cartridge-type engine oil filter Cartridge-type fuel main filter ConSite OIL (sensor)* DEF / AdBlue® tank DEF / AdBlue® tank inlet strainer and extension filler Dry-type air filter with evacuator valve (with air filter restriction indicator) Dust-proof net ECO / PWR / HP mode control Electrical fuel feed pump Engine oil drain coupler Expansion tank Fan guard Fuel cooler Fuel pre-filter with water separator Isolation-mounted engine • Maintenance free pre-cleaner 0 Radiator, oil cooler and intercooler • Reversible fan

HYDRAULIC SYSTEM	ZX690LC-7H
Auto power lift	•
AUX function lever (breaker)	0
Attachment pedal	0
Boom mode selector system	•
ConSite OIL (sensor)*	•
Control pattern changer (ISO / BH)	0
Control valve with main relief valve	•
Drain filter	•
Engine speed sensing system	•
Extra port for control valve	•
Hose rupture valve for boom/arm and overload alarm	0
Pilot filter	•
Power boost	•
Shockless valve in pilot circuit	•
Straight travel pedal	0
Suction filter	•
Variable relief valve for breaker and crusher	0
Work mode selector	•

•: Standard equipment O: Optional equipment -: Not applicable

CAB	ZX690LС-7н
All-weather sound suppressed steel cab	•
Auto control air conditioner	•
Bluetooth® integrated radio	•
Console height adjustment	•
Control lever auto-lock	•
CRES VII (center pillar reinforced structure) cab	
, ,	
Drink holder with hot and cool function	
Electric double horn	•
Engine shut-off switch	•
Equipped with reinforced, tinted	•
(green color) glass windows Evacuation hammer	
Floor mat	
Footrest	
Front window washer (2 points)	
Glove compartment	
Hands-free calling device	
Hot and cool box	•
Intermittent windshield wiper	
Key cylinder light	•
Laminated round glass front window	•
LED room light	•
Magazine rack	•
OPG front guard Level II	
(ISO10262: 1998) compliant	0
OPG top guard Level I (ISO10262: 1998) compliant	•
OPG top guard Level II (ISO10262: 1998) compliant	0
Pilot shut-off lever	•
Power outlet 12 V and 24 V	•
Push button low idle	•
Rain guard (without OPG front guard)	•
Rear tray	•
Retractable seat belt 3 in. (76 mm)	•
Rubber radio antenna	•
Seat: air suspension seat with heater	•
Seat adjustment part: backrest, armrest, height and angle, slide forward / back	•
Seat belt reminder	•
Short wrist control levers	•
Smartphone holder	•
Sunscreen roller type (multi-use front or side and rear window)	•
Transparent roof with slide curtain	•
USB power supply	•
Wide view wiper	•
Windows on front, upper and lower side can be opened	•
Windows on left side can be opened	•
2 speakers	•
6 fluid-filled elastic mounts	•
8 inch monitor	

•: Standard equipment O: Optional equipment -: Not applicable

MONITOR SYSTEM	ZX690LC-7H
Alarm buzzers: overheat, engine oil pressure, overload, SCR system trouble, etc	•
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	•
Display of meters: water temperature, hour, fuel rate, clock, DEF / AdBlue® rate, etc	•
Other displays: work mode, auto-idle, glow, rear view monitor, side view monitor, operating conditions, etc	•
35 languages selection	•

LIGHTS	ZX690LC-7H
Additional boom LED light with cover	•
Additional cab roof front LED lights	•
LED lights for camera (side and rear view camera)	•
Rotating lamp	0
3 working LED lights	•

UPPER STRUCTURE	ZX690LC-7H
AERIAL ANGLE (side and rear view camera)	•
Batteries 2 x 147 Ah	•
Body top handrail	•
Counterweight 22,928 lb (10,400 kg)	•
Counterweight removal system	0
Fuel level float	•
Hydraulic oil level gauge	•
Ladder	•
Lockable fuel refilling cap	•
Lockable machine covers	•
Lockable tool box	•
Platform handrail	•
Reinforced under cover	0
Side view mirror (right and left)	•
Sidewalk (cab side)	•
Skid-resistant plates and handrails	•
Swing parking brake	•
Undercover	•
2 way battery disconnect switch	•

UNDERCARRIAGE	
UNDENDAMMAGE	ZX690LC-7H
Bolt-on sprocket	•
Reinforced track links with pin seals	•
Shoe: 35" (900 mm) double grouser	•
Track undercover	0
Travel direction mark on track frame	•
Travel motor covers	•
Travel parking brake	•
Upper and lower rollers	•
2 track guard (each side)	•
4 tie down hooks	•

FRONT ATTACHMENTS	ZX690LC-7H
Arm 11' 10" (3.6 m) H	0
Arm 13' 9" (4.2 m) Semilong	•
Boom 25' 7" (7.8 m) H	•
Centralized lubrication system	•
Cylinder hose protectors arm	•
Cylinder hose protectors bucket	•
Damage prevention plate and square bars	•
Dirt seal on all bucket pins	•
Flanged pin	•

ATTACHMENTS	ZX690LC-7H
Accessories for 2 speed selector	0
Auxiliary hydraulic piping	0
Pilot accumulator	•

MISCELLANEOUS	ZX690LC-7H
ConSite	0
Global e-Service	•
Onboard information controller	•
Satellite communication device	0
Standard tool kit	•
Travel alarm	•

HITACHI



Hitachi Construction Machinery Americas Inc. is a leading provider of construction and mining machinery services and solutions in North and Latin America. Our manufacturing facilities are located in Banshu, Ryugasaki, Tierra, Hitachinaka, and Tsuchiura, Japan, while our U.S. corporate office is in Newnan, Georgia. Our experienced team of professionals is well-equipped to design, engineer, manufacture, and service your machinery.

Through our long-term commitment to maintaining a leadership position in technology, service, and support, we support an extensive network of independent, local dealers focused on providing you with knowledgeable and experienced sales, service, and parts personnel — all backed by our dedicated support teams.

Your Hitachi Construction Machinery Americas authorized local dealer has the resources, expertise, and personnel to work with you to ensure that you receive the most benefit from your investment. You can also utilize carefully designed programs and services in conjunction with extensive digital resources. Our focus is entirely on supporting you, your business, and your machinery.

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