

HITACHI

CONSTRUCTION HYDRAULIC EXCAVATOR

ZX690LC-7H

Reliable Solutions



Net Rated Power : 465 HP (347 kW)
Operating Weight : 152,340 – 152,780 lb (69,100 – 69,300 kg)
Max Dig Reach at Ground Level : 42 ft 9 in (13.03 m)
Max Dig Depth : 28 ft 1 in (8.56 m)
Model Code : ZX690LC-7H

ZAXIS690

Hitachi Construction Machinery Group

LANDCROS

Japanese Excellence—Reliable Solutions

A Legacy of Confidence

Known worldwide, Hitachi Construction Machinery has helped generations of builders, doers, and earth-movers accomplish their goals. Hitachi Construction Machinery Americas is the source for all U.S. and Latin American operations hoping to improve productivity and reduce costs — all while building our shared future.

Pioneering Progress Together

From dedicated Rental and Used machines business to servicing, parts sales, and remote diagnostic support, Hitachi Construction Machinery Americas has the know-how and desire to establish productive working partnerships across the region. A network of independent, local dealers providing sales and service support are at the ready, waiting to begin work on the next phase of your legacy.



Welcome to

Hitachi Construction

Endless Ambition

All of our machines have been built at state-of-the-art Hitachi Construction Machinery production facilities in Japan, after incorporating the unique needs of our North American customers. Designed for the toughest terrains, harshest environments and most intricate projects, we believe there is no job that couldn't make use of our machine.

Unwavering Dependability

Our dedication to reliability parallels our commitment for your comfort. Safety is non-negotiable; our machines adhere to the highest standards, ensuring your team's well-being. Count on Hitachi Construction Machinery Americas for peace of mind to ensure every team member returns home safely after a hard day's work.



Machinery Americas



QUALITY in Action

Hitachi Construction Machinery Americas is proud to introduce ZAXIS-7, the next evolution of excavators that proudly wear our name.

At job sites across the world, our partners depend on the latest Hitachi Construction Machinery Americas equipment for increased productivity, improved operator comfort, efficient maintenance needs and innovative safety features proven to keep workers safe.

This brochure is a guide for day-to-day operators as well as fleet owners of this equipment who are hoping to save time, money, to dream big — and build bigger.

Building on decades of quality engineering, Hitachi Construction Machinery Americas presents the ZAXIS-7 lineup, featuring the ZX690LC-7H excavator.

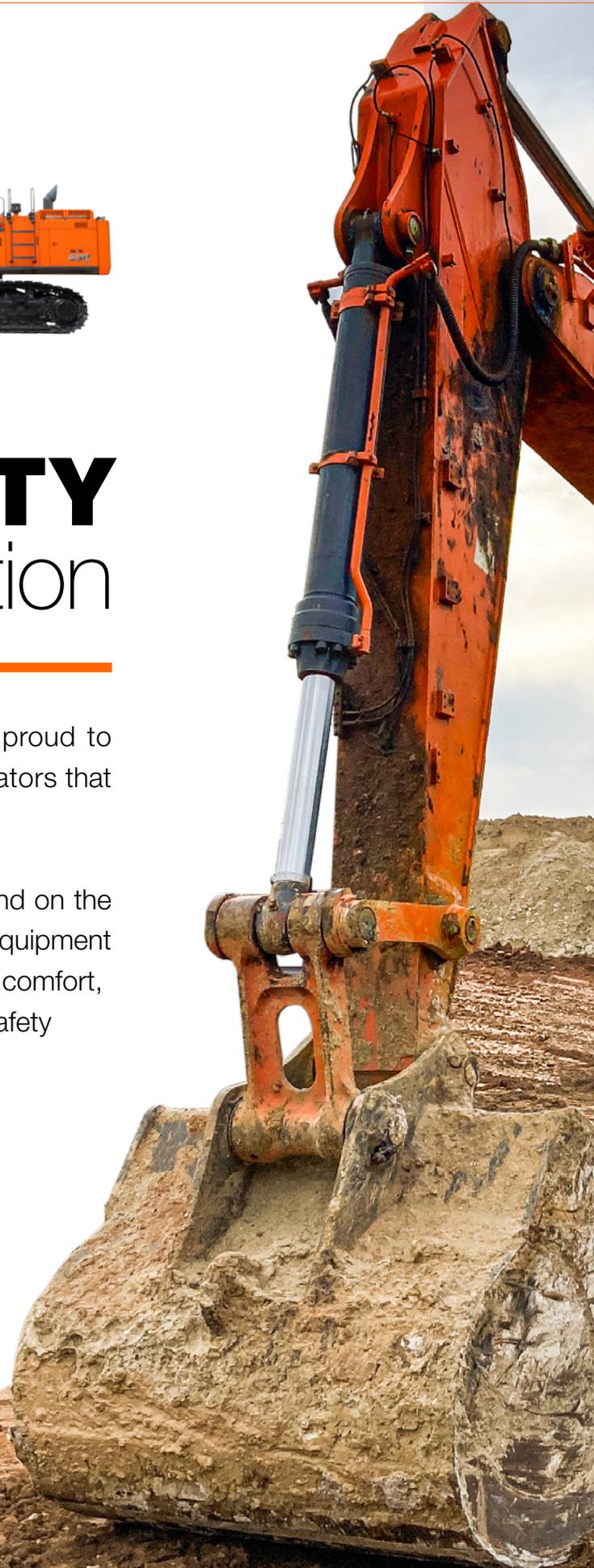




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MAXIMUM Performance

More power at your fingertips: the ZX690LC-7H delivers better productivity, lower operating costs, and supreme operator comfort.

In addition, major systems have been overhauled with next-generation hydraulics, maximizing the number of compatible attachments, ease of coupling, and fuel efficiency — for lower Total Cost of Ownership (TCO).

When using attachments, ZX690LC-7H operators have a number of tools at their disposal, including Tilt Control, Attachment / Arm Tuning Control, Hydraulic Quick Couplers, and several other specialized heavy-duty features.

With intuitive controls at the ready, operators can trust the ZX690LC-7H for sustained performance and peak productivity.

Improved Design

Accomplish a wide variety of jobs with a powerful ZAXIS-7 series platform, using a range of attachments for adapting to the conditions.



Next Generation Technology

Integrated 8" anti-glare LCD monitor controls all major functions, including a 270° AERIAL ANGLE camera system, ECO Mode, and more.

Powerful, Durable Engine

Proven Isuzu 6WG1 diesel engine with up to 1,460 lbf of torque; modern HIOS V hydraulics.

Increased Durability

Stout undercarriage with integrated X-Frame and enhanced track protection.

Quality Materials

From non-slip exterior surfaces to more durable interior materials, the ZX690LC-7H is made to last.





First-Class Cab Comfort

Maximum cab space, visibility of controls, and operator line-of-sight.



Enhanced Productivity

Uptime is everything: lower fuel consumption and higher quality components mean less downtime and lower servicing costs.



Service & Maintenance

With ConSite Air, ConSite Oil, and field-tested maintenance routines, ZX690LC-7H is a workhorse with predictable service intervals.



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HARD WORK Hero

Rely on the unparalleled torque, speed and precision of the ZX690LC-7H. With a proven 465 horsepower (347 kW) engine for applications as diverse as for construction, material handling, demolition, excavation, and more.

Attachment Replacement System

Change flow settings and save settings for up to 16 attachment presets, ensuring flexibility and peak productivity through multiple tasks.



Standard Work Modes

Three operator work modes (ECO, PWR, HP) best match available power to job site conditions.

Modern Emissions Controls

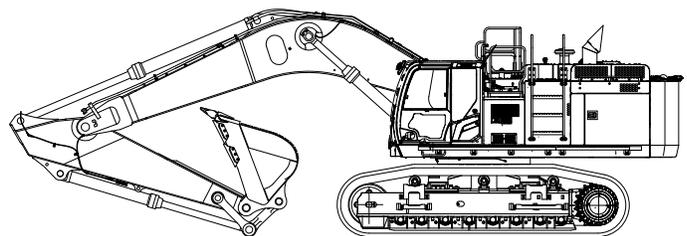
Durable diesel oxidation catalyst (DOC) and selective catalytic reduction (SCR) aftertreatment solution to protect the environment while preventing downtime.

Smart Engine Management

Isuzu Tier 4 Final Engine with built-in modes like an auto idle system with auto shutdown control to enhance fuel efficiency.

Precise Operator Control

Settings monitor allows operators to tailor attachment and arm speed for a range of jobs, from heavy digging to truck loading.



ALL-AROUND PERFORMANCE



**MORE
PRODUCTIVITY**
and operator comfort

Excavator



“ Hitachi Construction Machinery Americas is a reliable partner, helping me provide exceptional service to my clients via my dealership, WAJAX. Hitachi Excavators and Wheel loaders are consistently the most efficient and reliable machines on any job site - sun, rain, or snow. **No matter the job; Hitachi outperforms the competition!** ”



Jonathan Cross
WAJAX
Territory Manager



Make Your **MARK**

No matter the job site, the ZX690LC-7H puts digging power and operator comfort first, because this excavator was built to handle any job site — plus overtime. Excellent for construction, road & highway infrastructure improvements, and in fixed locations. Fine attachment control with presets allows this excavator to adapt as required; do more with one machine.





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HITACHI

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COMFORT Lives Here

Better shifts ahead: operators get a larger interior with less vibration, more head clearance and less noise, and one-touch adjustable air suspension seat synchronized to move with the console. Pressurized to reduce dust and contaminant ingress. Cab is ROPS and FOPS certified.

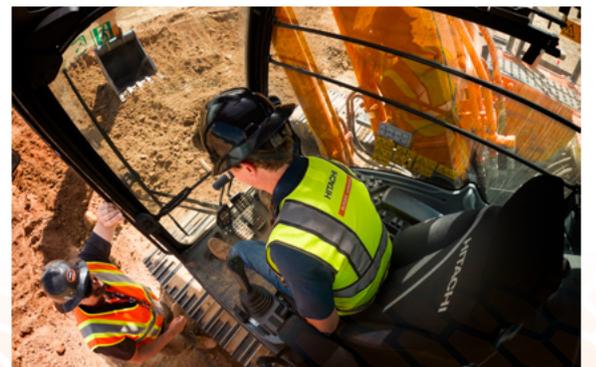
- 1 Increased sweeping area of parallel link wiper** enhances visibility in difficult working conditions.
- 2 Air conditioning and audio** are easily controlled via the monitor.
- 3 Low-reflective color 8" LCD monitor** is easy to view and navigate.
- 4 USB socket and smartphone holder** helps you stay connected.
- 5 Cup holder** is easy to detach for cleaning.
- 6 Additional joystick controls** for effortless operation.
- 7 Ergonomic design** gives you convenient access to controls.
- 8 Bluetooth®** for hands-free calls.
- 9 Multifunctional control panel** makes operation easier.
- 10 Improved sound isolation** makes this one of the quietest cabs in the market.
- 11 Convenient storage space** keeps your workspace tidy and clutter-free.
- 12 Coat hooks** take care of your personal belongings.
- 13 One-touch adjustment lever for console** so you can work comfortably in the optimum position.
- 14 Integrated console and seat suspension** gives a greater sense of control and helps to reduce fatigue.
- 15 Increased legroom** creates a more spacious cab.
- 16 Optimal pedal layout** helps to reduce fatigue.



SERVICE That Sticks

Protect your investment with proactive support services. Maintaining a robust distribution network to support customers' uptime is core to our business — and yours. Your dealer and your support team are dedicated to maintaining your uptime. Ask about how ConSite Oil and ConSite Air technology further increases uptime — a Hitachi Construction Machinery exclusive.

ConSite
Consolidated Solution for Construction Sites



NO HASSLE Maintenance

From up-to-the-second remote management with ConSite to the leading Hitachi Construction Machinery Americas Certified Remanufactured Components program, maintenance support is second-to-none. Identify problems before they start and supercharge productivity with our behind-the-scenes data platform that allows for remote fleet diagnostic access.



360° SAFETY

Work with confidence anywhere. Innovative, standard safety features are core to maintaining an incident-free jobsite. Standard AERIAL ANGLE camera system and a suite of operator tools ensures safer operation in all conditions.

AERIAL ANGLE Cameras

Peripheral vision camera system provides a wide 270-degree bird's-eye view of the machine's immediate environment.

Unmatched Visibility

See and be seen: LED work lights, large reflective strips, improved windshield wiper and roller sunshades ensure visibility in all conditions.

Multi-Angle Camera Display

With left, rear, and right side cameras and six different viewing positions from inside the cab display, operators can see clearly in all directions.

OPG Level II Guard

Optional OPG Level II cab guard (ISO 10262 : 1998) provides tremendous operator protection for use in quarries, demolition, and extreme environments.





SPECIFICATIONS

ZX690LC-7H

ENGINE	
Model	Isuzu 6WG1
Type	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 variable displacement axial piston pumps		
Maximum oil flow	2 x 129 gal/min (489 L/min)		
Pilot pump	1 gear pump		
Maximum oil flow	13.2 gal/min (50.0 L/min)		
Hydraulic Motors			
Travel	2 axial piston motors with parking brake		
Swing	2 axial piston motors		
Relief Valve Settings			
Implement circuit	4,626.7 psi (31.9 MPa)		
Swing circuit	4,264.1 psi (29.4 MPa)		
Travel circuit	4,974.8 psi (34.3 MPa)		
Pilot circuit	565.6 psi (3.9 MPa)		
Power boost	4,974.8 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)
Bucket (BE)	1	7.5" (190 mm)	5.1" (130 mm)

UPPERSTRUCTURE	
Revolving Frame	
D-section frame for resistance 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	
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 Rollers and Shoes on Each Side	
Upper rollers	3
Lower rollers	8
Track shoes	47
Track guards	2
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	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°) 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	Shoe grouser type	Shoe width	Operating weight	Ground pressure
ISO7451: 2007 heaped, yd ³ (m ³)	ft-in (m)	ft-in (m)		in (mm)	lb (kg)	psi (kPa)
3.8 (2.9) Rock bucket	25' 7" (7.8) H	11' 10" (3.6)	Double	35" (900)	152,339 (69,100)	11.02 (76)
		13' 9" (4.2)	Double	35" (900)	152,780 (69,300)	11.02 (76)

BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

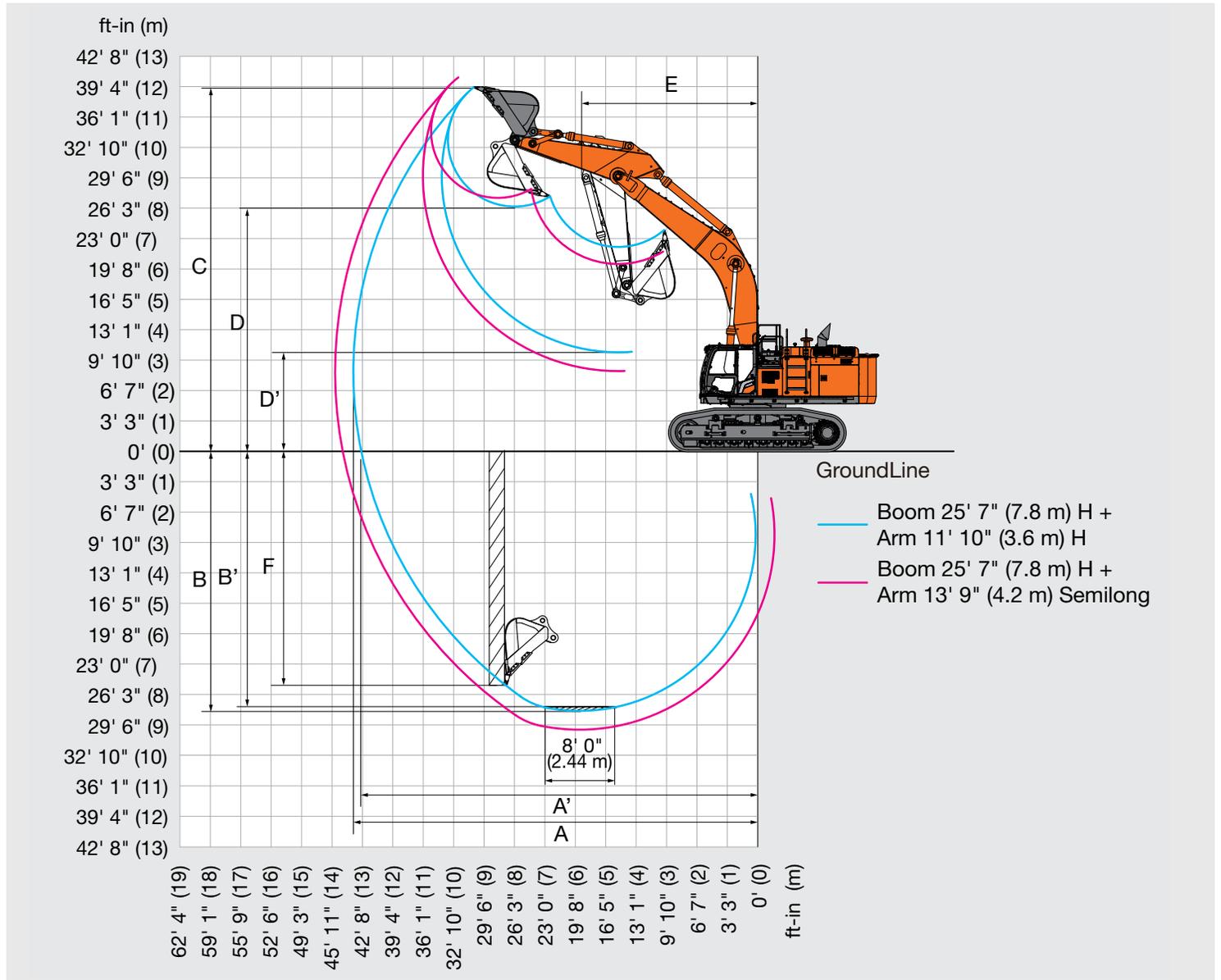
	ZX690LC-7H	
Boom length	Boom 25' 7" (7.8 m) H	Boom 25' 7" (7.8 m) H
Arm length	Arm 11' 10" (3.6 m) H	Arm 13' 9" (4.2 m) Semilong
Bucket digging force* ISO 6015: 2006	72,838 (324)	72,838 (324)
Arm crowd force* ISO 6015: 2006	57,326 (255)	51,931 (231)

Calculated value at power boost

SPECIFICATIONS

ZX690LC-7H

WORKING RANGES

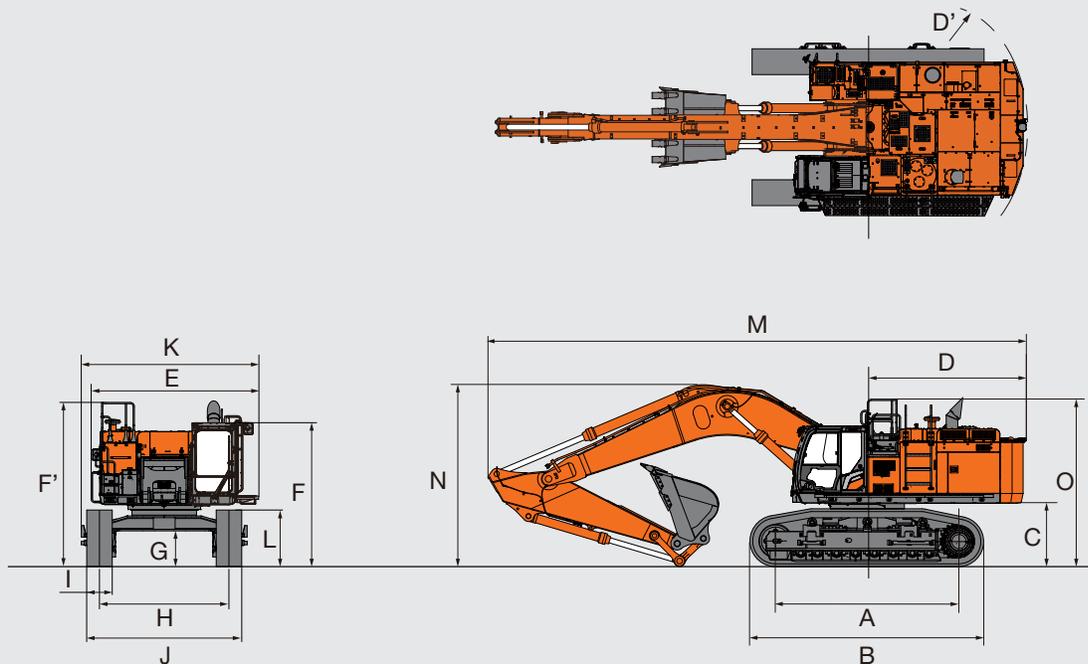


Unit: ft-in (mm)

	ZX690LC-7H	
	Boom 25' 7" (7.8 m) H Arm 11' 10" (3.6 m) H	Boom 25' 7" (7.8 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	19' 0" (5,780)	18' 11" (5,760)
F Max. vertical wall digging depth	25' 4" (7,720)	27' 11" (8,510)

Excluding track shoe lug

DIMENSIONS



Unit: ft-in (mm)

		ZX690LC-7H ²
A	Distance between tumblers	15' 1" (4,590)
B	Undercarriage length	19' 2" (5,840)
^{*1} C	Min. ground clearance of the upper structure: Standard Counterweight / Removal Counterweight	5' 1" (1,540) / 4' 3" (1,300)
D	Rear-end swing radius	13' 2" (4,020)
D'	Rear-end length	13' 1" (3,980)
E	Overall width of upperstructure	13' 6" (4,110)
F	Overall height of cab	12' 0" (3,660)
^{*1} G	Min. ground clearance	2' 10" (860)
H	Track gauge: Extended / Retracted	10' 10" (3,300) / 9' 3" (2,830)
I	Track shoe width	G 2' 11" (900)
J	Undercarriage width: Extended / Retracted	13' 9" (4,200)/12' 3" (3,730)
K	Overall width	14' 4" (4,360)
^{*1} L	Track height with triple grouser shoes	4' 9" (1,440)
M	Overall length	44' 2" (13,460)
N	Overall height of boom	16' 4" (4,970)
O	Overall height of base machine	13' 11" (4,230)

^{*1} Excluding track shoe lug

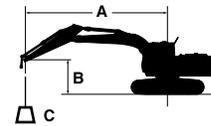
^{*2} Equipped with Boom 25' 7" (7.8 m) H and Arm 13' 9" (4.2 m) Semilong

G: Double grouser shoe

MACHINE CAPACITIES

ZX690LC-7H

- 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. Machine specifications are determined excluding the bucket.



- A: Load radius
- B: Load point height
- C: Machine capacity

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.

ZX690LC-7H

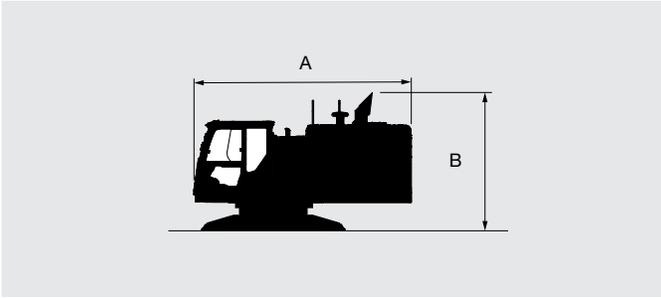
Rating over-front Rating over-side or 360 degrees Unit : lb (kg)

Conditions	Load point height (ft (m))	Load radius												At max. reach		
		10 ft (3.0 m)		15 ft (4.5 m)		20 ft (6.0 m)		25 ft (7.5 m)		30 ft (9.0 m)		35 ft (10.5 m)				ft-in (meter)
Boom 25' 7" (7.8 m) H Arm 11' 10" (3.6 m) H Counterweight 22,928 lb (10,400 kg)	25' (7.5)									*29,810 (*13,590)	*29,810 (*13,590)			*20,630 (*9,350)	*20,630 (*9,350)	32' 4" (9.92)
	20' (6.0)							*34,180 (*15,750)	*34,180 (*15,750)	*31,110 (*14,260)	29,900 (13,880)		(*9,820) (*9,820)	*20,670 (*9,380)	*20,670 (*9,380)	34' 6" (10.54)
	15' (4.5)					*46,600 (*21,640)	*46,600 (*21,640)	*38,010 (*17,550)	*38,010 (*17,550)	*33,180 (*15,260)	28,990 (13,450)	*26,720 (*13,650)	22,740 (10,570)	*21,230 (*9,640)	*21,230 (*9,640)	35' 9" (10.92)
	10' (3.0)					*53,460 (*24,790)	50,150 (23,230)	*41,920 (*19,370)	36,460 (16,890)	*35,450 (*16,320)	28,020 (12,990)	30,620 (14,220)	22,230 (10,320)	*22,340 (*10,150)	20,950 (9,490)	36' 4" (11.08)
	5' (1.5)					*58,070 (*26,860)	47,960 (22,230)	*45,050 (*20,800)	35,060 (16,240)	*37,360 (*17,220)	27,150 (12,580)	30,120 (13,980)	21,760 (10,090)	*24,110 (*10,950)	20,690 (9,380)	36' 3" (11.04)
	0 (Ground)			*35,570 (*15,350)	*35,570 (*15,350)	*59,820 (*27,600)	46,830 (21,730)	*46,770 (*21,580)	34,140 (15,820)	37,120 (17,220)	26,540 (12,300)	29,790 (13,810)	21,440 (9,940)	*26,850 (*12,180)	21,140 (9,580)	35' 4" (10.78)
	-5' (-1.5)			*53,650 (*23,450)	*53,650 (*23,450)	*59,050 (*27,220)	46,460 (21,570)	*46,770 (*21,580)	33,710 (15,630)	36,800 (17,070)	26,250 (12,160)			*31,190 (*14,100)	22,440 (10,160)	33' 9" (10.30)
	-10' (-3.0)	*51,230 (*22,720)	*51,230 (*22,720)	*71,260 (*32,800)	*71,260 (*32,800)	*55,870 (*25,780)	46,660 (21,670)	*44,670 (*20,650)	33,760 (15,650)	*35,940 (*16,710)	26,370 (12,200)			*33,760 (*15,300)	25,040 (11,300)	31' 3" (9.55)
	-15' (-4.5)	*75,100 (*33,160)	*75,100 (*33,160)	*62,320 (*28,810)	*62,320 (*28,810)	*49,610 (*23,000)	47,420 (22,010)	*39,340 (*18,350)	34,360 (15,910)					*34,040 (*15,440)	30,130 (13,510)	27' 7" (8.48)
	-20' (-6.0)			*47,810 (*22,430)	*47,810 (*22,430)	*37,690 (*17,860)	*37,690 (*17,860)							*32,620 (*14,880)	*32,620 (*14,880)	22' 3" (6.92)
Boom 25' 7" (7.8 m) H Arm 13' 9" (4.2 m) Semilong Counterweight 22,928 lb (10,400 kg)	25' (7.5)									*27,580 (*12,580)	*27,580 (*12,580)	(*8,490) (*8,490)		*17,430 (*7,890)	*17,430 (*7,890)	34' 6" (10.59)
	20' (6.0)									*29,150 (*13,370)	*29,150 (*13,370)	*23,760 (*11,630)	23,410 (10,890)	*17,410 (*7,900)	*17,410 (*7,900)	36' 7" (11.17)
	15' (4.5)			*58,080	*58,080	*43,110 (*20,010)	*43,110 (*20,010)	*35,720 (*16,490)	*35,720 (*16,490)	*31,430 (*14,460)	29,240 (13,560)	*28,820 (*13,200)	22,900 (10,640)	*17,790 (*8,080)	*17,790 (*8,080)	37' 9" (11.53)
	10' (3.0)					*50,450 (*23,400)	*50,450 (*23,400)	*39,940 (*18,450)	36,820 (17,060)	*33,950 (*15,630)	28,170 (13,060)	*30,200 (*13,870)	22,290 (10,350)	*18,600 (*8,450)	*18,600 (*8,450)	38' 4" (11.68)
	5' (1.5)					*56,040 (*25,930)	48,400 (22,440)	*43,540 (*20,100)	35,240 (16,330)	*36,200 (*16,680)	27,190 (12,600)	30,090 (13,970)	21,710 (10,070)	*19,890 (*9,030)	19,040 (8,630)	38' 2" (11.64)
	0 (Ground)			*37,780 (*16,400)	*37,780 (*16,400)	*58,950 (*27,220)	46,860 (21,750)	*45,880 (*21,170)	34,110 (15,820)	37,030 (17,180)	26,440 (12,260)	29,620 (13,740)	21,270 (9,860)	*21,870 (*9,910)	19,370 (8,780)	37' 5" (11.40)
	-5' (-1.5)	*29,240 (*12,970)	*29,240 (*12,970)	*50,650 (*22,160)	*50,650 (*22,160)	*59,290 (*27,350)	46,180 (21,440)	*46,620 (*21,510)	33,490 (15,530)	36,560 (16,960)	26,000 (12,050)	29,400 (13,630)	21,060 (9,760)	*24,900 (*11,260)	20,390 (9,240)	35' 10" (10.94)
	-10' (-3.0)	*45,050 (*19,980)	*45,050 (*19,980)	*69,020 (*30,210)	*69,020 (*30,210)	*57,210 (*26,400)	46,140 (21,430)	*45,440 (*20,990)	33,340 (15,460)	36,480 (16,920)	25,930 (12,010)			*29,850 (*13,450)	22,420 (10,130)	33' 6" (10.24)
	-15' (-4.5)	*64,130 (*28,350)	*64,130 (*28,350)	*67,060 (*31,000)	*67,060 (*31,000)	*52,350 (*24,240)	46,660 (21,660)	*41,670 (*19,350)	33,700 (15,610)	*32,530 (*15,310)	26,390 (12,190)			*32,210 (*14,600)	26,220 (11,780)	30' 2" (9.25)
	-20' (-6.0)			*54,900 (*25,620)	*54,900 (*25,620)	*43,220 (*20,250)	*43,220 (*20,250)	*32,780 (*15,640)	*32,780 (*15,640)					*31,890 (*14,500)	*31,890 (*14,500)	25' 5" (7.85)

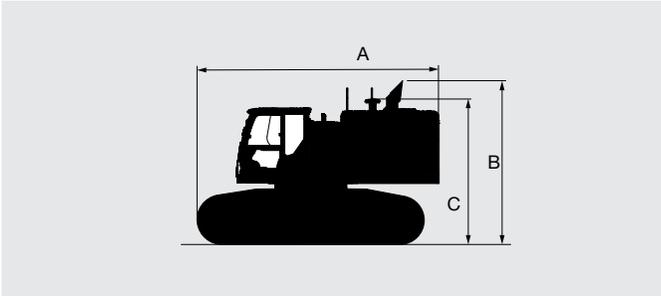
TRANSPORTATION

ZX690LC-7H

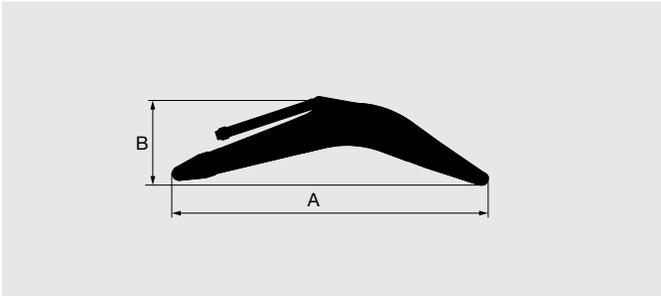
UPPERSTRUCTURE



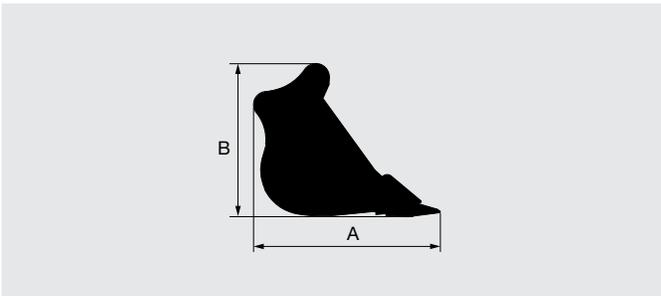
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



BOOM

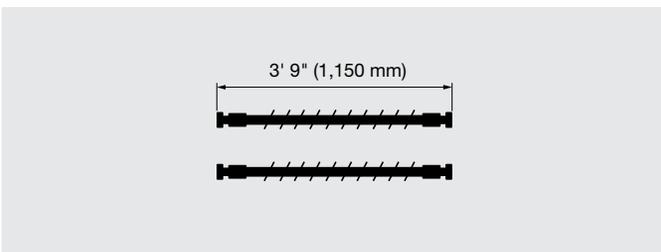


BUCKET

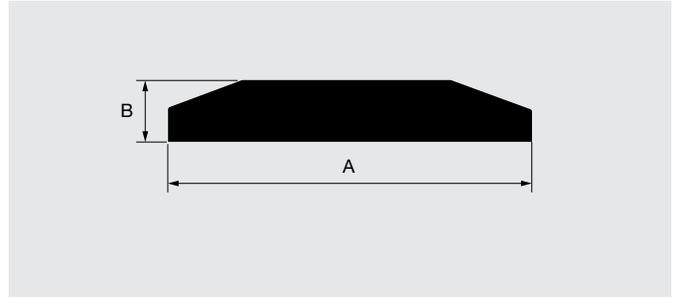


HOSE OF BOOM CYLINDERS

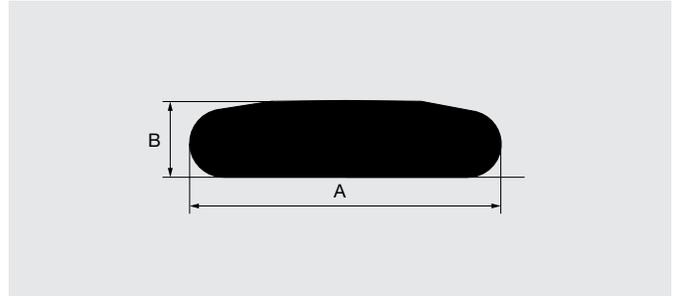
15 lb (7 kg) X 2 / 22 lb (10 kg) X 2



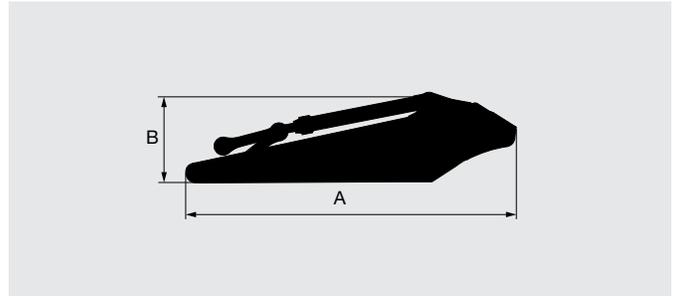
COUNTERWEIGHT



SIDE FRAME

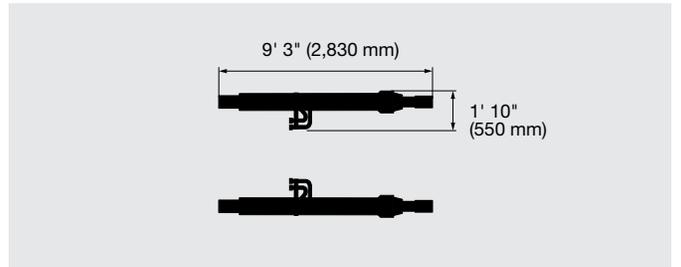


ARM



BOOM CYLINDERS 1,213 lb (550 kg) X 2

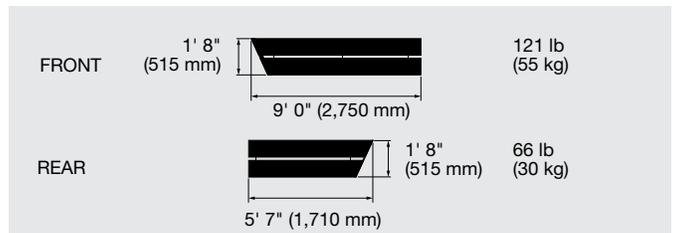
Overall height: 1' 3" (380 mm)



LEFT SIDEWALK

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

REAR: 0' 6" (150 mm)



UPPERSTRUCTURE

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

COUNTERWEIGHT

	A ft-in (mm)	B ft-in (mm)	Overall width ft-in (mm)	Weight lb (kg)
STD	11' 0" (3,360)	2' 0" (616)	5' 5" (1,660)	22,928 (10,400)
OPT* ¹	11' 0" (3,360)	2' 0" (616)	5' 8" (1,730)	21,700 (9,820)

*¹ For the counterweight removal/installation

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 lb (kg)
35" (900)	20' 6" (6,240)	13' 11" (4,239)	12' 4" (3,760)	12' 3" (3,730)	99,627 (45,190)

*¹ Without exhaust funnel

*² Undercarriage retracted

SIDE FRAME

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

BOOM

Boom length ft-in (mm)	A ft-in (mm)	B ft-in (mm)	Overall width ft-in (mm)	Weight lb (kg)
25' 7" (7.8) H	26' 8" (8,130)	7' 8" (2,330)	4' 7" (1,390)	14,220 (6,450)

ARM

Arm length ft-in (mm)	A ft-in (mm)	B ft-in (mm)	Overall width ft-in (mm)	Weight lb (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 lb (kg)
Rock bucket	3.8 (2.9)	7' 6" (2,290)	5' 10" (1,770)	5' 7" (1,690)	6,283 (2,850)

EQUIPMENT

ZX690LC-7H

●: Standard equipment ○: Optional equipment

ENGINE	ZX690LC-7H
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	○
Radiator, oil cooler and intercooler	●
Reversible fan	●

HYDRAULIC SYSTEM	ZX690LC-7H
Auto power lift	●
AUX function lever (breaker)	○
Attachment pedal	○
Boom mode selector system	●
ConSite Oil (sensor)*	●
Control pattern changer (ISO / BH)	○
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	○
Pilot filter	●
Power boost	●
Shockless valve in pilot circuit	●
Straight travel pedal	○
Suction filter	●
Variable relief valve for breaker and crusher	○
Work mode selector	●

CAB	ZX690LC-7H
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	●
Fluid-filled elastic mounts (6)	●
Foot rest	●
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	○
OPG top guard Level I (ISO10262: 1998) compliant	●
OPG top guard Level II (ISO10262: 1998) compliant	○
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	●
Stereo speakers (2)	●
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	●
8" monitor	●

●: Standard equipment ○: Optional equipment

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	○
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 21,700 lb (9,820 kg) **	○
Counterweight removal system	○
Fuel level float	●
Hydraulic oil level gauge	●
Ladder	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Reinforced under cover	○
Side view mirror (right and left)	●
Sidewalk (cab side)	●
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●
2 way battery disconnect switch	●

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

FRONT ATTACHMENTS	ZX690LC-7H
Arm 11' 10" (3.6 m) H	○
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
Auxiliary hydraulic piping	○
Pilot accumulator	●
Two pump combined flow	○

MISCELLANEOUS	ZX690LC-7H
ConSite	○
Exclusive Global e-Service telematics	●
Onboard information controller	●
Satellite communication device	○
Standard tool kit	●
Travel alarm	●

Standard and optional equipment may vary by country, so please consult your Hitachi Construction Machinery Americas authorized local dealer for details.

* Engine oil and hydraulic oil monitoring sensor.

** For the counterweight removal/installation.

HITACHI

Reliable Solutions



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