HITACHI

Reliable Solutions





HYDRAULIC EXCAVATOR

 Model code
 : ZX690LC-7G
 ZX690LCH-7G
 ZX690LCR-7G

 Engine rated power : 345 kW (463HP)
 345 kW (463HP)
 345 kW (463HP)

 Operating weight
 : 67 800 - 69 700 kg
 69 100 - 69 200 kg
 69 700 - 69 900 kg

 Bucket capacity
 : 2.5 - 3.5 m³
 1.5 - 3.3 m³
 2.9 - 3.3 m³



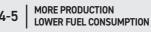
GET MORE FROM YOUR MACHINE

You're at the heart of Hitachi Construction Machinery's design for its latest range of excavators. To continuously improve on previous generation machines, we've focused on enhancing your profit in business.

We have made cost reduction for our customers our top priority and, in doing so, have achieved reduced fuel consumption. The cab has been redesigned to improve the operator's working environment and controllability, with production also expected to improve. An engine that already has a proven track record of high reliability has been adopted, and we have placed further work in it to make it even more robust. Remote failure diagnosis, monitoring, and OTA (Over The Air - controller rewriting) are also supported to reduce downtime.

INSIDE







0-11 GREATER DURABILITY IN QUARRY SITES R-series



6-7 | BETTER OPERABILITY



12-13 | SMC



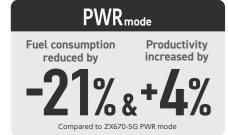
8-9 | HIGH DURABILITY AND RELIABILITY



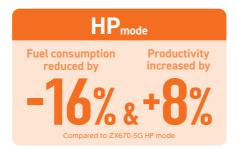
14-15 | MACHINE MANAGEMENT

MORE PRODUCTION LOWER FUEL CONSUMPTION

The HIOS-V new Hydraulic system has achieved both increased productivity and reduced fuel consumption in each mode. The ZAXIS performance contributes to increase the returns to the customer.







HIOS-V Hydraulic system

The hydraulic system developed was based on the concept of a hydraulic system that fits in-line with a sense of human operation.

- ✓ Efficient hydraulic control achieves smoother and more speedy movement of front attachments.
- ✓ Fine-tuned hydraulic pump control according to work load reduces fuel consumption and supports cost reductions.

Reduced oil pressure loss

A new valve has been adopted to reduce hydraulic loss and further improve hydraulic efficiency.

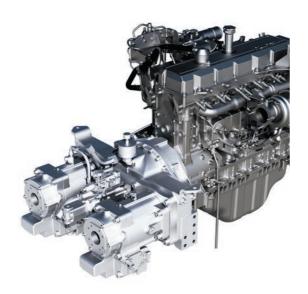
✓ Contributing to low fuel consumption operation

High power engine

Rated power has been increased from the conventional ZX670-5G engine contributing to greater work volume.

✓ Increased workload

Dated output	ZX670-5G	ZX690-7G
Rated output (ISO 14396:2002)	312 _{kW}	345 kW



High efficiency operation support system

The current fuel consumption is indicated by segment display, prompting the operator to better fuel economy. The lower the fuel consumption, the higher the segment.

Easy to be removed and cleaned

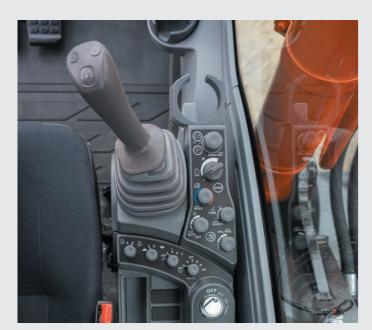
Prompts the operator to better fuel economy. Messages are also shown while the ECO gauge is displayed.

✓ Prompts operator for better economy





BETTER **OPERABILITY** In the cab of the Zaxis-7G, enhanced comfort and safety features are at your fingertips, offering the power to perform greater productivity with ease as well as reduced fatigue.



Operation is easy with ergonomically designed controls and switches.



Low-reflective color 8" touch panel monitor, 42 % larger display compared to ZX-5G series. Easier to view and navigate. USB power supply and Bluetooth® available.



New designed pilot shut-off lever
The newly designed pilot shut-off lever allows easier locking and unlocking with wrist operation.



AERIAL ANGLE (Optional)
270-degree bird's eye-view camera system is available as an option.

HGH DURABILITY AND RELIABILITY

Completing a project on time and on budget depends on the ability of your construction equipment to perform all day, every day. That's why Hitachi construction machinery owners have profited from generations of reliable and durable machinery. Hitachi Construction Machinery is always conscious of improving long-term reliability in its machine development. High long-term reliability is good in not only performance all day, every day but also for resale value.

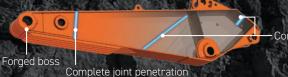
H Boom

Complete joint penetration has been applied to areas where the load is focused, and durability and reliability have been further improved.



H Arm

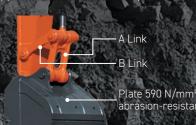
A forged boss is used in the arm rod. Complete joint penetration has been applied to areas where the load is focused, and durability and reliability have been further improved.



—Complete joint penetration

Rock bucket (ZX690LCH-7G only)

A rock bucket has been adopted in consideration for sites requiring heavier excavator work. Equipped with horizontal wear plates and two-piece side shrouds for increased durability.



Undercarriage (ZX690LCH-7G only)

Full track guard

Protects the lower roller and link from boulders and extending the unit's operating life.

abrasion-resistant steel

Iwo-piece side shrouds

Equipped with an Expansion tank

✓ Improving the reliability of the engine cooling performance



An engine with improved reliability

The engine is a highly reliable model that has already been adopted previously. In adopting it for the ZX-7G, we have put in our efforts to further increase durability and to BOOST your uptime. EGR (Exhaust Gar Recirculation) is removed from the engine, increasing its durability for using low-quality fuel.







A reinforced cab for H&R specification machines with a reinforced windshield and a FOPS* guard that protects the cab from falling objects. The front has a laminated straight glass front window that shuts out dust. The cab front guard (optional), also complies with the ISO standard OPG**.

*FOPS: Falling-Object Protective Structure
**OPG: Operator Protective Guards

Laminated straight glass front window (ZX690LCH-7G only)

Reinforced undercover (ZX690LCH-7G only) |

GREATER DURABILITY IN QUARRY SITES R-series

Realizing higher quality and stronger durability

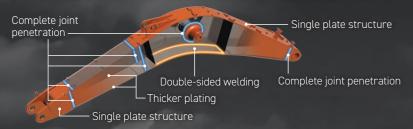
"Abrasion-resistant steel has been adopted, and strength has been further increased by changing the structure."

"Durable front structure and joints"

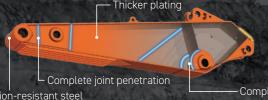
"Reinforced undercarriage that can withstand severe ground conditions"

Achieved stronger durability that meets customer needs.

Double-sided welding and complete joint penetration are applied to improve the rigidity and durability of the boom. Durability is also improved by the boom end side plate's single plate structure, thicker boom end bush and other various components.



Thicker arm side frames are installed, improving durability. Arm dent prevention plates and five square bars prevent the deformation of the arm during digging and loading of limestone and crushed stone.



Complete joint penetration

R Bucket

R bucket for crushed stones: High durability by adopting abrasion-resistant steel, twopiece side shrouds, cutting edge shrouds, and large bucket claws for rock excavation. The side wear plate is made of 1 470 N/mm² (150 kgf/mm²) class abrasion-resistant steel that has high wear resistance and is easy to repair by welding. Repair work such as replacements can also be done relatively easily.

R Bucket for limestone: Limestone has slightly sticky properties and can be tough to work with, and places a large load on the front structure during excavation. For this reason, the R bucket designed for limestone has a structure that emphasizes crack prevention. The arm mounting bracket has been strengthened with added ribs. Impact resistance is improved by increasing the length of welded part. In addition, 1 470 N/mm (150 kgf/mm²) grade abrasion-resistant steel is used to improve wear resistance.



Reinforced B Link Reinforced A link

1 470 N/mm² (150 kgf/mm²) abrasion-resistant steel *The photo shows the R bucket for crushed stone.

Reinforced travel motor guard

Protects the travel motor from rocks and prevents the damage to travel motor.

Undercarriage



Reinforced idler bracket

The idler bracket is strengthened to cope with frequent impacts



Full track guard

Protects the lower roller link from rocks and extending the unit's operating life.



H/R Cab



A reinforced cab for H&R specification machines with a reinforced windshield and a FOPS* guard that protects the cab from falling objects. The front has a laminated straight glass front window that shuts out dust. The cab front guard (optional), also complies with the ISO standard OPG**. *FOPS: Falling-Object Protective Structure *OPG: Operator Protective Guards

> Laminated straight glass front window

SMOOTH MAINTENANCE

Regular maintenance is essential for the machine to achieve high performance.

Hitachi's excavator is designed for ease of regular maintenance. Simple and easy maintenance keeps the machine in good condition and keeps its high performance.



Easy-access air conditioner condenser

- ✓ The cover can be opened without the need for any tools
- ✓ Easy to clean Radiator/Oil Cooler/Inter cooler core
 with simple air blowing



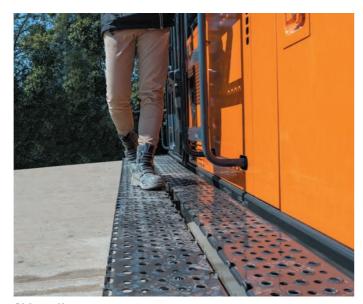
Dust-proof net on right side cover

- ✓ Provided on the cover, in front of radiator core
- ✓ Easy cleaning with compressed air



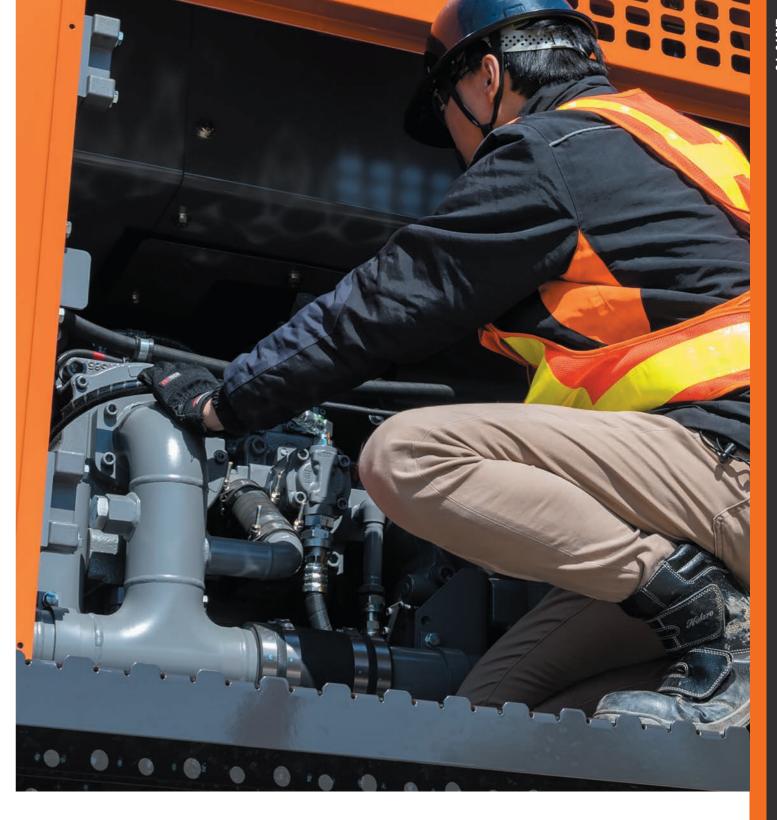
Simplified engine oil drainage

✓ Drain work can be done more easily by attaching a dedicated nozzle hose.



Side walk

✓ Easy to move from cab to pump room or platform



Easy access to filters

Filter locations are concentrated for easy access 1 Fuel main filter 2 Fuel pre-filter with water separator 3 Engine oil filter





 ${f 2}$

MACHINE MANAGEMENT

Hitachi Construction Machinery offers a wide range of after-sales services to help you feel in total control of your fleet and workload. These initiatives give you access to vital data and tools to manage your machine.





A wide range of data on Global e-Service enhances effiiciency.

Data report

Regular reports inform you of the machine's operation status. Emergency reports inform you of alarm information.

The stable operation of the machine is further supported with two types of reports visualizing the machine's daily operation status.

Regular reports on the operating status of each machine.

Alarm report

If an emergency alarm is generated from a sensor mounted on the machine, its alarm content is reported by e-mail in a timely manner. You can receive it on your computer, mobile phone, or smartphone (communication format is via e-mail).



ConSite Air

This is a service solution to diagnose machine status and update software from a remote location using OTA

- Machine status, including error code display and sensor data, can be checked quickly, reducing downtime due to machine trouble.
- Software updates can be performed remotely, reducing the amount of machine downtime required.







Remote Diagnosis

ConSite Pocket

ConSite Pocket sends you real-time alerts for issues arising with your machine. You'll receive recommendations on what to do and step-by-step help guides. The app also enables you to see the location of your fleet.

- Use your smartphone to check monthly reports, alarm reports, as well as machine operating positions.
- If an alarm report is generated, the system will notify you immediately using a push notification.











Machine finder Location information



ConSite Shot

This is a smartphone application that allows you to easily perform daily inspections of your machines and rental warehousing / delivery management.

- You can easily create high-quality inspection reports and share information within your company or with agents etc.
- Customers who have rental machines can also use it during rental warehousing / delivery inspections.







Acceptance or delivery Inspection report with inspection of rental machines condition photo







ConSite OIL

This system detects if the oil quality has deteriorated, due to contamination or low viscosity. If this happens, you and your authorized dealer will receive an alert.

SPECIFICATIONS

ENGINE	
Model	Isuzu 6WG1
Туре	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 14396 : 2002 gross	345 kW (463 HP) at 1 800 min ⁻¹ (rpm)
ISO 9249 : 2007 net	344 kW (461 HP) at 1 800 min ⁻¹ (rpm)
Maximum torque	1 980 Nm (202 kgfm) at 1 500 min-1 (rpm)
Piston displacement	15.681 L
Bore and stroke	147 mm x 154 mm
Batteries	2 x 12 V

HYDRAULIC	SYSTI	EM				
Hydraulic Pum	nps					
Main pumps		2 varia	able displacement a	kial piston pumps		
Maximum oil flov	V	2 x 443 L/min				
Pilot pump		1 gear	r pump			
Maximum oil flov	V	50 L/n	nin			
Hydraulic Motors						
Travel		2 axial piston motors with parking brake				
Swing	Swing 2 axial piston motors					
Relief Valve Se	ettings					
Implement circui	t	31.9 N	MPa (325 kgf/cm²)			
Swing circuit		29.4 N	лРа (300 kgf/cm²)			
Travel circuit		34.3 N	лРа (350 kgf/cm²)			
Pilot circuit	rcuit		Pa (40 kgf/cm²)			
Power boost 34.3 M			1.3 MPa (350 kgf/cm ²)			
Hydraulic Cylir	Hydraulic Cylinders					
	Quar	ntity	Bore	Rod diameter		
Boom	2		190 mm	130 mm		

UPPERSTRUCTURE					
D-section frame for resistance to deformation.					
Swing Device					
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulicreleased disc type.					
Swing speed 8.5 min ⁻¹ (rpm)					
Swing torque 194 kNm (19 800 kgfm)					

200 mm

180 mm

190 mm

140 mm

130 mm

130 mm

Arm

Bucket

Bucket (BE)

UNDERCARRI	AGE						
Tracks	Tracks						
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 : ZX690LC-7G						
Lower rollers	8: ZX690LCH-7G / ZX690LCR-7G						
Track shoes	47 : ZX690LC-7G						
Track Shoes	47 : ZX690LC-7g / ZX690LCR-7g						
Trook guarda	2 : ZX690LC-7G						
Track guards	Full track guard : ZX690LCH-7G / ZX690LCR-7G						
Travel Device							
counterrotation of Parking brake is sp	by axial piston motor through reduction gear for the tracks. pring-set/hydraulic-released disc type. ssion system: High-Low.						
Traval appeda	High: 0 to 4.9 km/h						
Travel speeds Low: 0 to 3.4 km/h							
Maximum traction force	483 kN (49 300 kgf)						
Gradeability	70 % (35 degree) continuous						

SERVICE REFILL CAPACITIES				
Fuel tank	920.0 L			
Engine coolant	86.0 L			
Engine oil	52.0 L			
Pump drive	6.2 L			
Swing device (each)	10.5 L			
Travel device (each side)	16.0 L			
Hydraulic system	750.0 L			
Hydraulic oil tank	380.0 L			

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

ZX690LC-7G

Shoe grouser Sh	Shoe width	Arm type	Poom tuno	Bucket Capacity (ISO7451: 2007	Operating weight	Ground pressure	
type	type Arm type Boom type (ISO7451 : 2007 heaped)	kg	kPa	kgf/cm ²			
	GEO	2.9 m BE	6.8 m BE	3.5 m³ Bucket	68 300	102	1.04
	650	3.6 m H	7.8 m H	2.9 m³ Bucket	67 800	102	1.04
Doublo	Double 750	2.9 m BE	6.8 m BE	3.5 m³ Bucket	68 600	89	0.91
Double		3.6 m H	7.8 m H	2.9 m³ Bucket	68 200	89	0.91
900	2.9 m BE	6.8 m BE	3.5 m³ Bucket	69 700	76	0.77	
	900	3.6 m H	7.8 m H	2.9 m³ Bucket	69 200	75	0.76

ZX690LCH-7G

Shoe grouser	Shoe width			Operating weight	Ground	pressure	
type	mm	Arm type	Boom type	heaped)	kg	kPa	kgf/cm ²
Double	Davida CEO		6.8 m BE	3.3 m³ Rock Bucket	69 100	104	1.06
Double 650		3.6 m H	7.8 m H	2.9 m³ Rock Bucket	69 200	104	1.06

ZX690LCR-7G

Shoe grouser type Shoe width mm	Arm tune Deem tune		Bucket Capacity (ISO7451: 2007	Operating weight	Ground pressure		
	mm	Arm type	Boom type	heaped)	kg	kPa	kgf/cm ²
Davible	050	2.9 m BER	6.8 m BER	3.3 m³ R-Bucket	69 700	105	1.07
Double 650	3.6 m R	7.8 m R	2.9 m³ R-Bucket	69 900	105	1.07	

SPECIFICATIONS

BUCKET AND ARM DIGGING FORCE

ZX690LC-7G

Boom length	6.8	m BE	7.8 m H		
Avecloseth	2.9	m BE	3.6 m H		
Arm length	kN	kgf	kN	kgf	
Bucket digging force* ISO 6015 : 2006	369	37 700	324	33 100	
Arm crowd force* ISO 6015 : 2006	306	31 200	255	26 000	

^{*} At power boost

ZX690LCH-7G

Boom length	6.8	B m BE	7.8 m H		
Avecloreth	2.9	m BE	3.6 m H		
Arm length	kN	kgf	kN	kgf	
Bucket digging force* ISO 6015 : 2006	369	37 700	324	33 100	
Arm crowd force* ISO 6015 : 2006	306	31 200	255	26 000	

^{*} At power boost

ZX690LCR-7G

Boom length	6.8	m BER	7.8 m R		
Armlongth	2.9	m BER	3.6 m R		
Arm length	kN	kgf	kN	kgf	
Bucket digging force* ISO 6015 : 2006	369	37 700	324	33 100	
Arm crowd force* ISO 6015 : 2006	306	31 200	255	26 000	

^{*} At power boost

BACKHOE ATTACHMENTS

ZX690LC-7G

Bucket	Capacity (m³)	Width	(mm)	No. of	Weight	Boom 6.8 m BE	Boom 7.8 m H
Ducket	ISO 7451 : 2007 heaped	Without side cutters	With side cutters	teeth	(kg)	Arm 2.9 m BE	Arm 3.6 m H
	2.5	1 480	1 620	5	2 150	×	0
Backhoe bucket	2.9	1 680	1 820	5	2 310	×	0
	3.5	1 800	1 990	5	2 980	0	×
						650 mm doi	uble grouser
Applicable shoe type						750 mm doi	uble grouser
						900 mm doi	uble grouser

ZX690LCH-7G

Bucket	Capacity (m³)	Width	(mm)	No. of	Weight	Boom 6.8 m BE	Boom 7.8 m H
Bucket	ISO 7451 : 2007 heaped	Without side cutters	With side cutters	teeth	(kg)	Arm 2.9 m BE	Arm 3.6 m H
	2.9	1 610	1 675	5	2 850	×	•
Rock bucket	3.3	1 710	1 775	5	3 110	•	×
	4.0	1 905	1 970	5	3 700	0	×
Dianar buoleat	1.5	-	1 310	3	3 150	×	•
Ripper bucket	1.8	-	1 570	3	3 750	•	×
One-point ripper				1	1 800	•	•
Applicable shoe type		650 mm doi	uble grouser				

ZX690LCR-7G

Bucket	Capacity (m³)	Width	(mm)	No. of	Weight	Boom 6.8 m BER	Boom 7.8 m R
Ducket	ISO 7451 : 2007 heaped	Without side cutters	With side cutters	teeth	(kg)	Arm 2.9 m BER	Arm 3.6 m R
R bucket	2.9	1 695	1 725	5	3 300	×	•
R Ducket	3.3	1 795	1 825	5	3 610	•	×
Applicable shoe type			650 mm do	uble grouser			

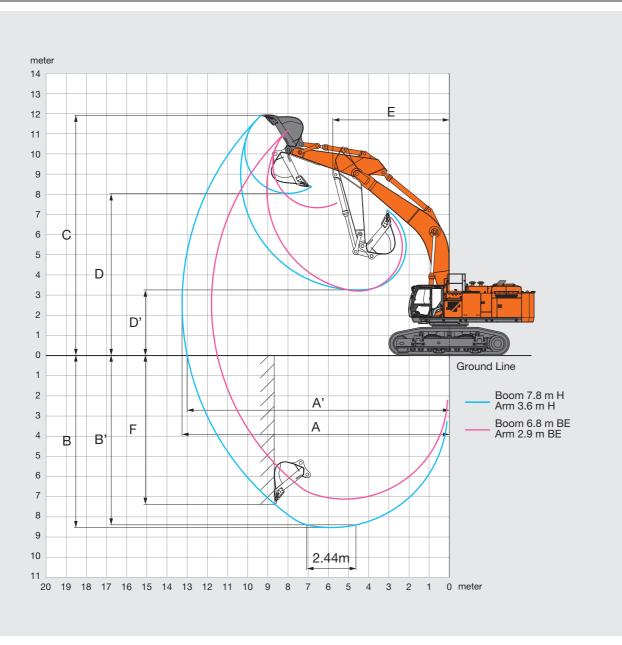
 [◆] Heavy-duty service
 ○ Suitable for material with density of 1 600 kg/m³ or less

[©] Suitable for material with density of 1 800 kg/m³ or less

[×] Can't be installed

SPECIFICATIONS

WORKING RANGES

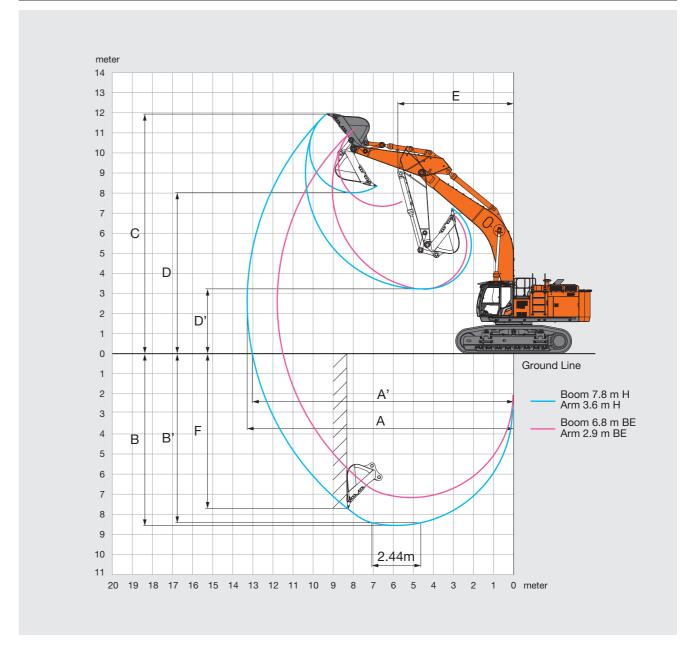


Unit: mm

	ZX690	DLC-7G
Boom	6.8 m BE	7.8 m H
Arm length	2.9 m BE	3.6 m H
A Max. digging reach	11 800	13 250
A' Max. digging reach (on ground)	11 500	13 000
B Max. digging depth	7 120	8 530
B' Max. digging depth for 2.44 m level	6 970	8 400
C Max. cutting height	11 190	11 920
D Max. dumping height	7 330	8 050
D' Min. dumping height	3 200	3 260
E Min. swing radius	5 240	5 780
F Max. vertical wall digging depth	5 280	7 380

ZX690LCH-7G

WORKING RANGES



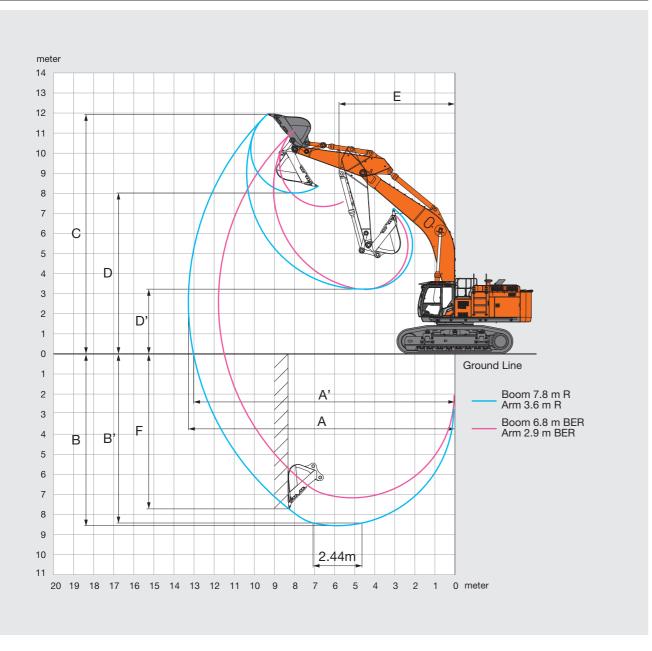
Unit: mm

	ZX690LCI	H-7G
Boom	6.8 m BE	7.8 m H
Arm length	2.9 m BE	3.6 m H
A Max. digging reach	11 800	13 280
A' Max. digging reach (on ground)	11 500	13 030
B Max. digging depth	7 120	8 560
B' Max. digging depth for 2.44 m level	6 970	8 420
C Max. cutting height	11 190	11 940
D Max. dumping height	7 330	8 020
D' Min. dumping height	3 200	3 230
E Min. swing radius	5 240	5 780
F Max. vertical wall digging depth	5 280	7 720

Excluding track shoe lug

SPECIFICATIONS ZX690LCR-7G

WORKING RANGES



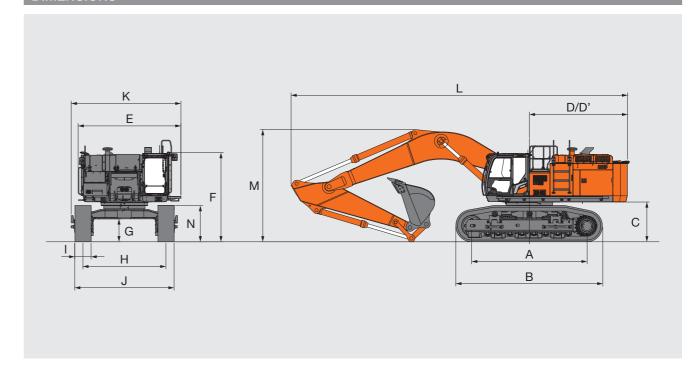
Unit: mm

	ZX690	LCR-7G
Boom	6.8 m BER	7.8 m R
Arm length	2.9 m BER	3.6 m R
A Max. digging reach	11 800	13 280
A' Max. digging reach (on ground)	11 500	13 030
B Max. digging depth	7 120	8 560
B' Max. digging depth for 2.44 m level	6 970	8 420
C Max. cutting height	11 190	11 940
D Max. dumping height	7 330	8 020
D' Min. dumping height	3 200	3 230
E Min. swing radius	5 240	5 780
F Max. vertical wall digging depth	5 280	7 720

Excluding track shoe lug

ZX690LC-7G / ZX690LCH-7G / ZX690LCR-7G

DIMENSIONS



Unit: mm

				Unit: mm
		ZX690LC-7G	ZX690LCH-7G	ZX690LCR-7G
А	Distance between tumblers	4 590	4 590	4 590
В	Undercarriage length	5 840	5 840	5 840
*C	Counterweight clearance	1 530	1 530	1 530
D	Rear-end swing radius	4 020	4 020	4 020
D'	Rear-end length	3 910	3 910	3 910
Е	Overall width of upperstructure	4 090	4 090	4 090
F	Overall height of cab	3 550	3 660	3 660
*G	Min. ground clearance	860	860	860
Н	Track gauge : Extended / Retracted	3 300 / 2 830	3 300 / 2 830	3 300 / 2 830
I	Track shoe width	650 / 750 / 900	650	650
	Undercarriage width : Extended / Retracted			
	with 650 mm shoe	3 950 / 3 480	3 950 / 3 480	3 950 / 3 480
J	with 750 mm shoe	4 050 / 3 580	-	-
	with 900 mm shoe	4 200 / 3 730	-	-
K	Overall width	4 360	4 360	4 360
**L	Overall length	13 400	13 400	13 400
**M	Overall height of boom	4 460	4 460	4 460
**N	Track height	1 440	1 440	1 440

^{*} Excluding track shoe lug ** with Boom 7.8 m and Arm 3.6 m

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 m = Ground.



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-7	G									🖺 Ratin	g over-fror	it Ü≕ R	ating over-	side or 360) degrees	Unit : kg
	Load						Load	radius						_	t max. reac	h
Conditions	point	3.0) m	4.5	m	6.0) m	7.5	m	9.0	m	10.8	5 m	A	t max. reac	11
	height m	ů	₽	ů	₽	ů	₽	Ů	□ =	ů	∷ ⊨	ů	₽	Ů	₽	meter
Boom	7.5									*13 620	13 480			*9 390	*9 390	9.9
7.8 m H Arm	6.0							*15 780	*15 780	*14 280	13 150	*9 860	*9 860	*9 420	*9 420	10.5
3.6 m H	4.5					*21 680	*21 680	*17 580	16 750	*15 270	12 700	*13 690	9 950	*9 680	9 310	10.9
Counterweight	3.0					*24 830	21 950	*19 390	15 940	*16 330	12 230	13 500	9 690	*10 180	8 900	11.1
10 400 kg	1.5					*26 880	20 940	*20 810	15 290	16 640	11 820	13 250	9 460	*10 980	8 780	11.0
Shoe 650 mm	0 (Ground)			*15 220	*15 220	*27 610	15 220	21 370	14 860	16 320	11 530	13 070	9 290	*12 200	8 960	10.8
	-1.5			*23 310	*23 310	*27 220	20 240	21 140	14 650	16 160	11 380			13 380	9 490	10.3
	-3.0	*22 580	*22 580	*32 800	32 580	*25 760	20 320	*20 630	14 650	16 200	11 410			14 920	10 560	9.6
	-4.5	*33 020	*33 020	*28 790	*28 790	*22 970	20 640	*18 320	14 890					*15 400	12 640	8.5
	-6.0			*22 390	*22 390	*17 820	*17 820							*14 830	*14 830	6.9
Boom	7.5							*16 810	*16 810					*12 500	*12 500	8.2
6.8 m BE Arm	6.0					*19 710	*19 710	*17 550	17 470					*12 210	*12 210	9.0
2.9 m BE	4.5					*22 640	*22 640	*18 960	16 840	*17 010	12 680			*12 320	11 780	9.4
Counterweight	3.0					*25 600	22 380	*20 520	16 160	17 190	12 350			*12 810	11 190	9.6
10 400 kg	1.5					*27 590	21 440	*21 730	15 590	16 860	12 040			*13 740	11 080	9.6
Shoe 650 mm	0 (Ground)					*28 180	20 950	21 770	15 240	16 670	11 870			*15 290	11 450	9.3
	-1.5			*35 530	33 030	*27 310	20 830	*21 550	15 140					17 580	12 490	8.7
	-3.0	*37 800	*37 800	*31 570	*31 570	*24 670	21 050	*18 920	15 370					*17 710	14 680	7.8
	-4.5			*24 650	*24 650	*18 660	*18 660							*16 670	*16 670	6.4
	-6.0															

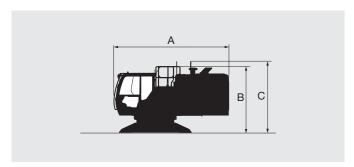
ZX690LCH	-7G									🖁 Ratir	ng over-fron	t Ç I≕ R	ating over-	side or 360) degrees	Unit : kg
	Load						Load	radius						^	t max. reac	h
Conditions	point	3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	10.	5 m	_ A	i max. reac	11
	height m	ů	₽	ů	₽	ů	₽	Ů	₽	ů	₽	ů	₽	ů	₽	meter
Boom	7.5									*13 510	*13 510			*9 300	*9 300	9.9
7.8 m H	6.0							*15 670	*15 670	*14 180	13 190	*9 770	*9 770	*9 330	*9 330	10.5
Arm 3.6 m H	4.5					*21 570	*21 570	*17 470	16 820	*15 160	12 740	*13 600	9 970	*9 590	9 320	10.9
Counterweight	3.0					*25 710	22 070	*19 270	16 010	*16 220	12 270	13 540	9 710	*10 090	8 910	11.1
10 400 kg	1.5					*26 760	21 060	*20 690	15 360	16 720	11 860	13 290	9 470	*10 890	8 790	11.0
Shoe 650 mm	0 (Ground)			*15 130	*15 130	*27 490	20 530	*21 460	14 920	16 400	11 560	13 120	9 310	*12 110	8 970	10.8
	-1.5			*23 220	*23 220	*27 090	20 360	21 260	14 720	16 240	11 410			13 420	9 510	10.3
	-3.0	*22 490	*22 490	*32 660	*32 660	*25 640	20 430	*20 510	14 720	16 270	11 440			14 980	10 590	9.6
	-4.5	*32 920	*32 920	*28 660	*28 660	*22 850	20 760	*18 200	14 960					*15 290	12 680	8.5
	-6.0			*22 270	*22 270	*17 700	*17 700							*14 720	*14 720	6.9
Boom	7.5							*16 810	*16 810					*12 500	*12 500	8.2
6.8 m BE	6.0					*19 710	*19 710	*17 550	*17 550					*12 210	*12 210	9.0
Arm 2.9 m BE	4.5					*22 640	*22 640	*18 960	17 000	*17 010	12 810			*12 320	11 910	9.4
Counterweight	3.0					*25 600	22 600	*20 520	16 320	17 360	12 480			*12 810	11 310	9.6
10 400 kg	1.5					*27 590	21 600	*21 730	15 760	17 030	12 180			*13 740	11 200	9.6
Shoe 650 mm	0 (Ground)					*28 180	21 170	21 990	15 410	16 850	12 000			*15 290	11 580	9.3
	-1.5			*35 530	33 380	*27 310	21 060	*21 550	15 310					*17 760	12 620	8.7
	-3.0	*37 800	*37 800	*31 570	*31 570	*24 670	21 270	*18 920	15 540					*17 710	14 840	7.8
	-4.5			*24 650	*24 650	*18 660	*18 660							*16 670	*16 670	6.4
	-6.0															

ZX690LCR-	7G								ď۶	Rating ove	r-front 📮	🕽 Rating	g over-sid	e or 360 c	degrees	Unit : kg
	Load						Load	radius						Λ.	t max. rea	ob.
Conditions	point	3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	10.	5 m] A	t max. rea	cn
	height m	ů	Ç≕	ů	₽	ů	₽	ů	₽	ů	₽	ů	₽	ů	₽	meter
Boom	7.5									*13 510	*13 510			*9 300	*9 300	9.9
7.8 m R	6.0							*15 670	*15 670	*14 180	13 190	*9 770	*9 770	*9 330	*9 330	10.5
Arm 3.6 m R	4.5					*21 570	*21 570	*17 470	16 820	*15 160	12 740	*13 600	9 970	*9 590	9 320	10.9
Counterweight	3.0					*25 710	22 070	*19 270	16 010	*16 220	12 270	13 540	9 710	*10 090	8 910	11.1
10 400 kg	1.5					*26 760	21 060	*20 690	15 360	16 720	11 860	13 290	9 470	*10 890	8 790	11.0
Shoe 650 mm	0 (Ground)			*15 130	*15 130	*27 490	20 530	*21 460	14 920	16 400	11 560	13 120	9 310	*12 110	8 970	10.8
	-1.5			*23 220	*23 220	*27 090	20 360	21 260	14 720	16 240	11 410			13 420	9 510	10.3
	-3.0	*22 490	*22 490	*32 660	*32 660	*25 640	20 430	*20 510	14 720	16 270	11 440			14 980	10 590	9.6
	-4.5	*32 920	*32 920	*28 660	*28 660	*22 850	20 760	*18 200	14 960					*15 290	12 680	8.5
	-6.0			*22 270	*22 270	*17 700	*17 700							*14 720	*14 720	6.9
Boom	7.5							*16 810	*16 810					*12 500	*12 500	8.2
6.8 m BER	6.0					*19 710	*19 710	*17 550	*17 550					*12 210	*12 210	9.0
Arm 2.9 m BER	4.5					*22 640	*22 640	*18 960	17 000	*17 010	12 810			*12 320	11 910	9.4
Counterweight	3.0					*25 600	22 600	*20 520	16 320	17 360	12 480			*12 810	11 310	9.6
10 400 kg	1.5					*27 590	21 600	*21 730	15 760	17 030	12 180			*13 740	11 200	9.6
Shoe 650 mm	0 (Ground)					*28 180	21 170	21 990	15 410	16 850	12 000			*15 290	11 580	9.3
	-1.5			*35 530	33 380	*27 310	21 060	*21 550	15 310					*17 760	12 620	8.7
	-3.0	*37 800	*37 800	*31 570	*31 570	*24 670	21 270	*18 920	15 540					*17 710	14 840	7.8
	-4.5			*24 650	*24 650	*18 660	*18 660							*16 670	*16 670	6.4
	-6.0															

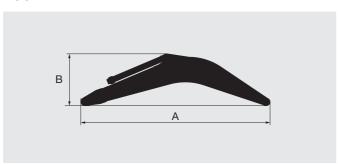
27

TRANSPORTATION

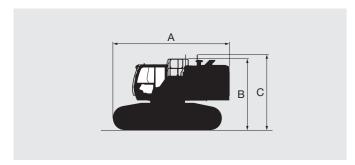
UPPERSTRUCTURE



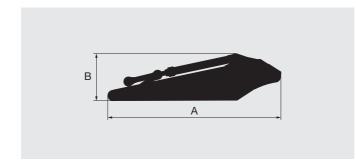
BOOM



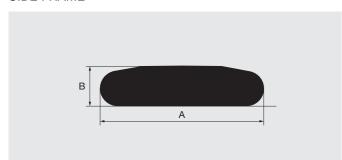
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



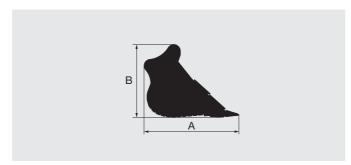
ARM



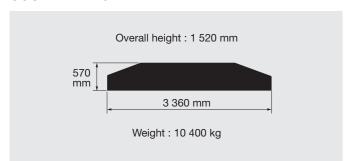
SIDE FRAME



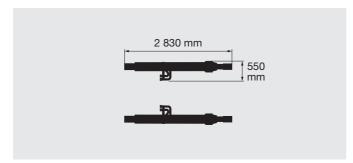
BUCKET



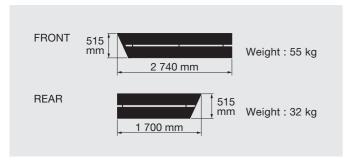
COUNTERWEIGHT



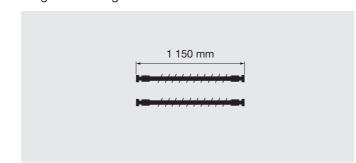
BOOM CYLINDERS 550 kg X 2 Overall height : 410 mm



LEFT SIDEWALK Overall height : 150 mm



HOSE OF BOOM CYLINDERS 7 kg X 2 / 10 kg X 2



UPPERSTRUCTURE

Fixed gauge	A (mm)	B (mm)	C (mm)	Overall width (mm)	Weight (kg)
ZX690LC-7G	5 220	2 910	3 140	4 090	20 910
ZX690LCH-7G	5 220	2 910	3 140	4 090	21 100
ZX690LCR-7G	5 220	2 910	3 140	4 090	21 100

BASIC MACHINE (WITHOUT COUNTERWEIGHT)

Fixed gauge	Shoe width (mm)	A (mm)	B (mm)	C (mm)	Overall width (mm)	Weight (kg)
	650	6 240	3 820	4 050	3 480	43 700
ZX690LC-7G	750	6 240	3 820	4 050	3 580	44 100
	900	6 240	3 820	4 050	3 730	45 100
ZX690LCH-7G	650	6 240	3 820	4 050	3 480	44 400
ZX690LCR-7G	650	6 240	3 820	4 050	3 480	44 650

Notes : Undercarriage retracted.

SIDE FRAME

Fixed gauge	Shoe width (mm)	A (mm)	B (mm)	Overall width (mm)	Weight (kg)
	650	5 840	1 450	1 250	10 400
ZX690LC-7G	750	5 840	1 450	1 250	10 700
	900	5 840	1 450	1 320	11 200
ZX690LCH-7G	650	5 840	1 450	1 250	10 600
ZX690LCR-7G	650	5 840	1 450	1 250	10 700

воом

Boom	A (mm)	B (mm)	Overall width (mm)	Weight (kg)
6.8 m BE	7 140	2 510	1 390	6 110
7.8 m H	8 130	2 330	1 390	6 560
6.8 m BER	7 140	2 510	1 390	6 260
7.8 m R	8 130	2 330	1 390	6 760

ΔRN

Arm	A (mm)	B (mm)	Overall width (mm)	Weight (kg)
2.9 m BE	4 370	1 690	800	3 820
3.6 m H	5 110	1 440	800	3 750
2.9 m BER	4 370	1 690	800	3 950
3.6 m R	5 110	1 440	800	3 900

BUCKET

Bucket	Bucket Capacity ISO heaped (m³)	A (mm)	B (mm)	Overall width (mm)	Weight (kg)
	2.5	2 220	1 810	1 620	2 150
Backhoe bucket	2.9	2 220	1 810	1 820	2 310
	3.5	2 250	1 890	1 990	2 980
	2.9	2 290	1 770	1 680	2 850
Rock bucket	3.3	2 250	1 890	1 790	3 110
	4.0	2 360	1 930	1 970	3 700
R bucket	2.9	2 290	1 770	1 680	3 300
	3.3	2 250	1 890	1 790	3 610

EQUIPMENT

ENGINE	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
Alternator 60 A	•	•	•
Auto idle system	•	•	•
Auto shut-down control	•	•	•
Cartridge-type engine oil filter	•	•	•
Cartridge-type fuel main filter	•	•	•
Cartridge-type fuel pre-filter with water separator	•	•	•
ConSite OIL (sensor)*	•	•	•
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	•	•	•
Isolation-mounted engine	•	•	•
Pre-cleaner	0	0	0
Radiator, oil cooler and intercooler	•	•	•
Reversible fan	0	0	0

HYDRAULIC SYSTEM	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
Auto power lift	•	•	•
Boom mode selector system	•	•	•
ConSite OIL (sensor)*	•	•	•
Control valve with main relief valve	•	•	•
Drain filter	•	•	•
Engine speed sensing system	•	•	•
Extra port for control valve	•	•	•
High mesh full flow filter	•	•	•
Pilot filter	•	•	•
Power boost	•	•	•
Shockless valve in pilot circuit	•	•	•
Suction filter	•	•	•
Two extra port for control valve	•	•	•
Work mode selector	•	•	•

CAB	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
All-weather sound suppressed steel cab	•	•	•
Auto control air conditioner	•	•	•
Bluetooth® radio	•	•	•
Console height adjustment	•	•	•
CRES VII (center pillar reinforced structure) cab	•	•	•
Drink holder with hot and cool function	•	•	•
Electric double horn	•	•	•
Engine shut-off switch	•	•	•
Evacuation hammer	•	•	•
Fire extinguisher bracket	0	0	0
Floor mat	•	•	•
Footrest	•	•	•
Front window washer (1 points)	•	•	•
Glove compartment	•	•	•
Hands-free calling device	0	0	0
Hot and cool box	•	•	•
Intermittent windshield wipers	•	•	•
Key cylinder light	•	•	•
Laminated straight glass front window	0	0	0
LED room light	•	•	•
Magazine rack	•	•	•
OPG front guard Level II (ISO 10262 : 1998) compliant	0	0	0
OPG top guard Level II (ISO 10262 : 1998) compliant	0	0	0
Pilot shut-off lever	•	•	•
Power outlet 12 V	0	0	0
Power outlet 24 V	•	•	•
Rain guard (without OPG front guard)	•	•	•
Rear tray	•	•	•
Retractable seat belt	•	•	•
Rubber radio antenna	•	•	•
Seat : air suspension seat with heater	0	0	0
Seat : mechanical suspension seat	•	•	•
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)	0	0	0
Transparent roof with slide curtain	•	•	•
USB power supply	•	•	•
Windows on leftside can be opened	•	•	•
2 speakers	•	•	•
6 fluid-filled elastic mounts	•	•	•
8 inch monitor	•	•	•

MONITOR SYSTEM	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc	•	•	•
Alarm buzzers : overheat, engine oil pressure, overload, trouble, etc	•	•	•
Display of meters : water temperature, hour, fuel rate, clock, etc	•	•	•
Other displays: work mode, auto-idle, glow, rear view monitor, operating conditions, etc	•	•	•
35 languages selection	•	•	•

LIGHTS	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
Additional boom LED light with cover	0	0	0
Additional cab roof front 2 LED lights	0	0	0
Additional cab roof front 4 LED lights	0	0	0
Additional cab roof rear 1 LED light	0	0	0
LED lights for camera (side and rear view camera)	0	0	0
Rotating lamp	0	0	0
2 working LED lights	•	•	•

UPPERSTRUCTURE	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
AERIAL ANGLE (side and rear view camera)	0	0	0
Auto-grease lubricator (without bucket and link pins)	0	0	0
Batteries	•	•	•
Body top handrail	•	•	•
Counterweight 10 400 kg	•	•	•
Electric fuel refilling pump with auto stop and filter	0	0	0
Electrical grease pump with hose-reel	0	0	0
Fuel level float	•	•	•
Hydraulic oil level gauge	•	•	•
Ladder	•	•	•
Lockable fuel refilling cap	•	•	•
Lockable machine covers	•	•	•
Lockable tool box	•	•	•
Platform handrail	•	•	•
Right side and rear view camera	•	•	•
Sidewalk (cab side)	•	•	•
Skid-resistant plates and handrails	•	•	•
Swing parking brake	•	•	•
Undercover	•	•	•
Utility space	•	•	•
2 way disconnect switch	•	•	•

UNDERCARRIAGE	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
Bolt-on sprocket	•	•	•
Full track guard	-	•	•
Hydraulic track adjuster	•	•	•
Idler track guard	•	•	•
Reinforced track links with pin seals	•	•	•
Shoe: 650 mm double grouser	•	•	•
Shoe: 750 mm double grouser	0	-	-
Shoe: 900 mm double grouser	0	-	-
Track undercover	0	0	0
Travel direction mark on track frame	•	•	•
Travel motor covers	•	•	•
Travel parking brake	•	•	•
Upper and lower rollers	•	•	•
2 track guards (each side)	•	-	-

FRONT ATTACHMENTS	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
Arm 2.9 m BE	0	0	-
Arm 2.9 m BER	-	-	0
Arm 3.6 m H	•	•	-
Arm 3.6 m R	-	-	•
Boom 6.8 m BE	0	0	-
Boom 6.8 m BER	-	ı	0
Boom 7.8 m H	•	•	-
Boom 7.8 m R	-	-	•
Bucket 2.9 m³ (ISO 7451 : 2007 heaped)	•	-	-
Rock Bucket 2.9 m³ (ISO 7451 : 2007 heaped) with dual type side shrouds	-	•	-
R-Bucket 2.9 m³ (ISO 7451 : 2007 heaped) with dual type side shrouds	_	-	•
Centralized lubrication system	•	•	•
Damage prevention plate and square bars	-	•	•
Dirt seal on all bucket pins	•	•	•
Flanged pin	•	•	•
Link B	•	•	-
Monolithically cast bucket link A	•	•	-
Reinforced link A	-	-	•
Reinforced link B	_	_	•

MISCELLANEOUS	ZX690 LC-7G	ZX690 LCH-7G	ZX690 LCR-7G
ConSite	0	0	0
Global e-Service	•	•	•
Onboard information controller	•	•	•
Standard tool kit	•	•	•
Theft prevention system**	0	0	0

Standard and optional equipment may vary by country, so please consult authorized dealer for details.

* Engine oil and hydraulic oil monitoring sensor.

** Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.

MEM0	MEM0

Before using a machine with a satellite or tele-communication system, please make sure that the satellite or tele-communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.	These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before using, please read and understand the Operator's Manual for proper operation.
sure that the satellite or tele-communication system complies with local regulations,	Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.
sure that the satellite or tele-communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications	Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.

KS-EN551

www.hitachicm.com

23.11 (Q/SO, GT₂)