

ZAXIS-5G series

HITACHI

Reliable solutions

ZAXIS670



HYDRAULIC EXCAVATOR

Model Code : ZX670LC-5G / ZX670LCH-5G

Engine Rated Power : 312 kW (418 HP)

Operating Weight : ZX670LC-5G : 66 800 kg

ZX670LCH-5G : 68 200 kg

Backhoe Bucket : ISO Heaped : 2.5 - 3.5 m³

ZAXIS Empower your Vision.

A ZAXIS hallmark – industry-leading hydraulic technologies, and performance no other can beat. New ZAXIS provides reliable solutions:

impressive fuel economy, swift front movements, and easy operation. You'll also find Hitachi technological prowess and expertise, such as the optimized hydraulic system and engine.

New ZAXIS features the key benefits of high quality, low fuel consumption, and high durability, all of which serve to ensure low running costs.

New ZAXIS, which is empowered by comprehensive evolution, will realize customers' visions and dreams, and pioneer your colorful future.



Key Benefits for Low Running Costs

- High Quality
- Low Fuel Consumption
- High Durability

Large Production with Less Fuel

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- 6% reduction in fuel consumption
- More fuel reduction in the ECO mode
- Swift front movements with HIOS III B hydraulics
- 9% enhancement in swing torque
- Easy-to-use attachments

No Compromise on Operator Comfort

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- Comfortable operating environment
- Comfort-designed operator seat
- Robust cab
- New, easy-to-use multifunction monitor

Pursuits of Performance and Durability

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- Prestige R&D and quality control
- Durable, reliable engine
- Rock-solid, durable front attachment
- Strengthened undercarriage
- Strengthened upperstructure D-section skirt

Simplified Maintenance

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- Remote inspection points
- Fast lubrication
- Easy access to the upperstructure
- Low life cycle costs
- 920 L large capacity fuel tank

Hitachi Support Chain

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- Remote fleet management with Global e-Service
- Parts and service



Large Production with Less Fuel

6%* Reduction in Fuel Consumption

New ZAXIS is a fuel-thrifty excavator that can reduce fuel consumption by 6%*, compared to the conventional ZX650LC-3 family, thanks to the HIOS III B hydraulic system and engine control system, thereby reducing CO₂ emissions.

*H/P mode vs. conventional model's H/P mode

More Fuel Reduction in the ECO mode

The ECO mode, a new economical mode, can further cut fuel consumption by 10% compared to the PWR mode, without sacrificing digging force by optimal matching of operations.



Swift Front Movements with HIOS* III B Hydraulics

Operating speed increases with less fuel consumption thanks to the HIOS III B hydraulic system, developed by industry-leading hydraulic technologies and a wealth of experience.

*Human & Intelligent Operation System

Improved Arm Controllability

Improved arm controllability for level luffing and level crowding for front movements, including swing operations. The boom regenerative circuit using the boom weight and the newly adopted variable orifice of the swing circuit help ensure hydraulic oil can be effectively allocated and pressure loss can be reduced.

9%* Enhancement in Swing Torque

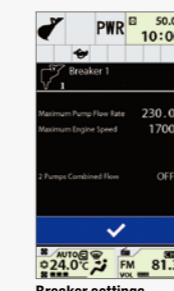
One of the key performance requirements for mining machinery is swing power. It must be capable of holding and swinging buckets full of crushed stones powerfully, and then loading them onto a dump truck. The new ZAXIS adopts a newly developed swing device to improve swing power by 9%* over conventional models. It also has sufficient capacity to load crushed stones onto a dump truck.

*Compared to the conventional ZX650LC-3 family



Easy-to-Use Attachments

The operator can adjust extra circuit flow and check settings from the multifunction monitor next to the operator seat. What's more, 11 jobs, including flow rate setting, can easily be selected by their identified names.



Pursuits of Performance and Durability

Prestige R&D and Quality Control

Hitachi has earned praise for technological prowess and product performance around the world. R&D Division has a track record – including excellent design, stress analysis expertise using CAE system, and abundant production data base. What's more, a large-scale durability test field (427 hm²) allows for a series of stringent testing of new machines. Production Division strives to automatize production processes, including robotic welding, machining, painting, assembling and transferring.



Computer-Aided Engineering

Main pump testing area

Main frame welding line

Large-sized excavator assembly line

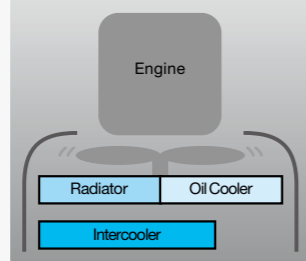
Simulation testing from operator seat



Durable, Reliable Engine

This engine has a track record showing impressive durability at countless tough job sites around the world. The engine — associated with a rugged design, a direct fuel injection system and an elaborate governor — goes green, and complies with EU Stage II and US EPA Tier 2 emissions regulations.

The cooling system has excellent cooling capability with a radiator and oil cooler arranged in parallel. The system optimizes the rotational speed of cooling fan, depending on the temperatures of coolant and hydraulic oil, contributing to excellent cooling capability and noise reduction. The combination of a 312 kW (418 HP) engine and the new HIOS IIIB hydraulic system meets requirements, in terms of both output and fuel consumption.



Rock-Solid, Durable Front Attachment

A very robust and durable boom and arm are adopted for the Front Attachment, allowing it to function optimally at tough job sites such as mines / quarries, where an endless stream of operations is required. The ZX670LCH-5G adopts an H-boom and H-arm, using plates thicker than those of standard models. The arm also includes a damage prevention plate and square bars; improving its durability compared to the standard model. The arm cylinder, boom cylinders and bucket cylinder for the retract side cushion shocks at the stroke ends to reduce noise and extend the service life.

Strengthened Undercarriage

The reliable undercarriage structure of the conventional ZAXIS models is retained for the new ZAXIS. For idler brackets, where stress is concentrated in transit, the box-structure and reinforcing plates limit deformation and enhance travel stability. An enhanced two-step side step ladder is also provided to facilitate entering/alighting from the cab.

Strengthened Upperstructure D-Section Skirt

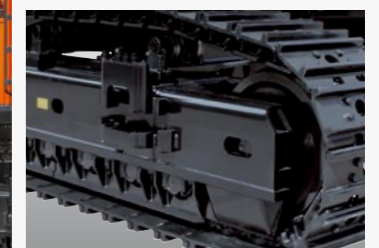
For the new ZAXIS, the plate thickness of the D-section skirt is increased by 30% to improve durability performance. A large door catch is added to reduce shocks and jolts of the cab and upperstructure.



Enhancements of boom & arm with rock bucket (ZX670LCH-5G)



Boom hose protector



Idler brackets



Undercarriage Structure



Side step

No Compromise on Operator Comfort

Comfortable Operating Environment

You'll feel comfortable and confident, with plenty of leg space and excellent visibility when operating the cab. The new compact console gives more leg space. The new door pillar is shifted rearward by 70 mm to widen an entry space for easy access. A new LED room light, interlocked with the door, turns on when the door opens. The front window is easily removed and stored overhead using slide rails (ZX670LC-5G only). The overhead window is openable for ventilation. Ample air conditioner vents are located strategically for uniform air circulation inside the cab. The control panel and control levers are arranged within easy reach of the operator. AM/FM radio and AUX port (optional) for a mobile music player are available for a long work day with less fatigue. All these designs focus on operator comfort.

Comfort-Designed Operator Seat

The luxury cloth seat is fitted with a headrest and arm rests for operator comfort. The seat can be adjusted in multiple ways, sliding and reclining, to suit operator's size and preferences. The seat can slide rearward by 40 mm more for added leg space. An air suspension with a heat pad is optional.

Robust Cab

The robust cab, meeting the OPG (Top Guard Level 1*), protects the operator from falling objects. The pilot control shut-off lever is provided with a neutral engine start system that permits engine starting only when the pilot control shut-off lever is in Lock position. The engine is lockable by entering a password through the 10-key panel.

*The ZX670LCH-5G complies with Top Guard Level II.



Control panel

Large storage space



The photo shows an optional air suspension seat

New, Easy-to-Use Multifunction Monitor

The new multi-language, multifunction monitoring system comprises of a 7-inch high-resolution color monitor and a multifunction controller. The monitor allows the operator to check varying operating variables: hydraulic oil temperature, fuel level, work mode, full-auto air conditioner, AM/FM radio, rear view monitor camera (optional), maintenance support, and attachment flow adjustment. Menu items can be selected and adjusted by a multifunction controller on the control panel. A new rear view monitor camera always displays the view behind the machine.



Menu Items

<ul style="list-style-type: none"> Main Menu Alarm List Air Conditioner Audio Work Mode Setting Menu 	<ul style="list-style-type: none"> Work Mode Bucket Breaker 1 Breaker 2 Breaker 3 Breaker 4 	<ul style="list-style-type: none"> Work mode menu Engine Oil Previous Maintenance Remains Maintenance Interval
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Simplified Maintenance



Remote Inspection Points

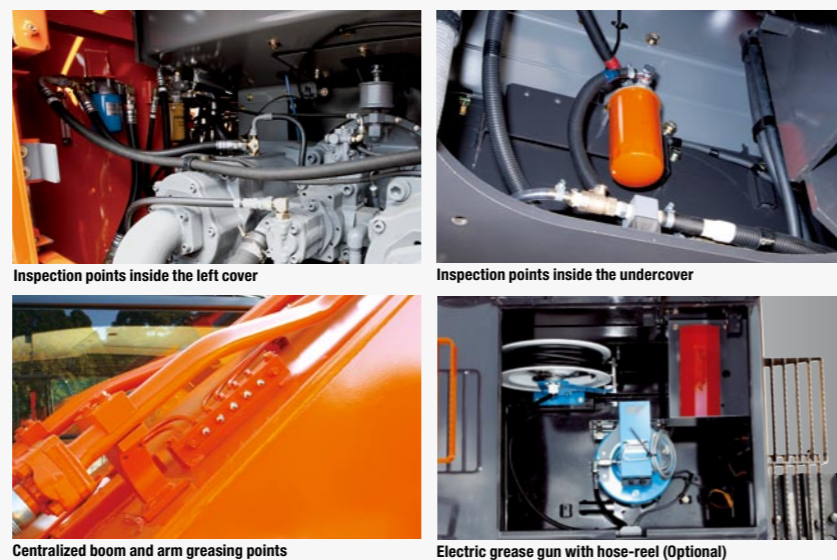
Inspection points are concentrated inside left cover and undercover that are readily accessible for convenient servicing and inspection, including water draining from the fuel tank, replenishment of filters. A lid behind the cab door is available for easy replacement of the air conditioner filters for fresh air.

Easy-Access to the Upperstructure

A large sidewalk is provided on the left side of the cab, making it easy to access the engine from the ladder while handrails are provided and sufficient slip-resistant plates for safety.

Fast Lubrication

The arm and boom have their own centralized greasing points for fast lubrication. An optional electric grease gun with hose-reel is also available for faster greasing / lubrication.

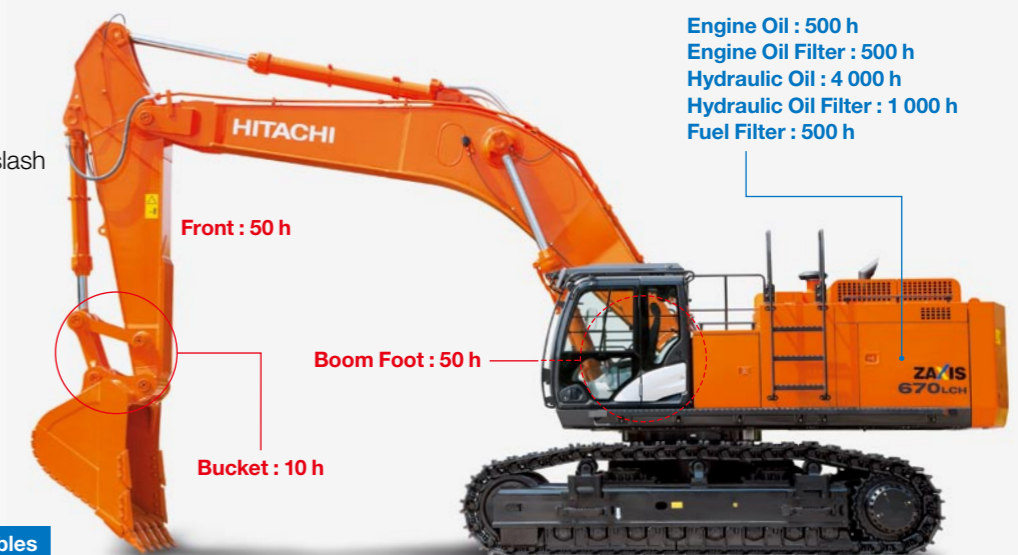


Low Life Cycle Costs

Service intervals are long enough to slash maintenance costs.

920 L Large Capacity Fuel Tank

Equipped with a large capacity fuel tank for longer operations.



Lubricant Consumables

Note: Periodic inspection is required to check oil contamination and likes.

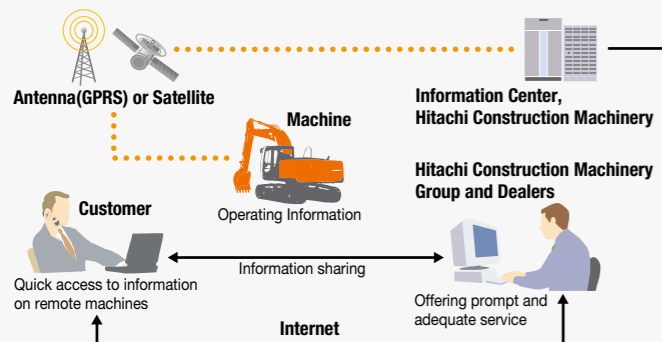
Hitachi Support Chain

Hitachi Support Chain is a full customer support system offered after buying a Hitachi machine.

Remote Fleet Management with Global e-Service

Easy Access to On-Site Machines through the Internet

This on-line fleet management system allows you to access each on-site machine from a PC in your office. You can get its operating information and location to increase productivity of the fleet and reduce downtime. Operating data and log are sent to a Hitachi server for processing, and then to customer and dealers around the world. This system is available 24 hours a day, all the year around.



Note: In Some Regions, Global e-Service Is Not Available by Local Regulations.

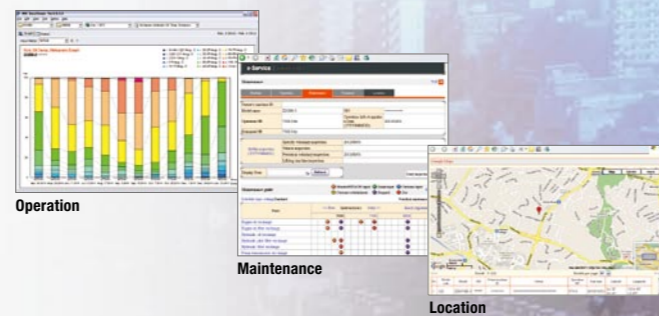
Main Features of Global e-Service

Functions

Global e-Service provides easy access to a machine on site, conveying operating information and log, including daily operating hours, fuel level, temperatures, pressures, and likes.

Maintenance

Maintenance data and log are displayed on a easy-to-read monitor screen, suggesting recommended maintenance for efficient fleet management.



Parts and Service

Hitachi full customer support is available every area on the globe for full customer satisfaction through Hitachi local dealers.

Parts

Hitachi Global Online Network, a parts supply system, is linked with Japan Parts Center, overseas depots and over 150 dealers abroad to deliver on-line parts information, including in-stock parts, order receptions, shipments and delivery period of over one million parts and components.

Genuine Hitachi Parts

Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

Ground Engaging Tools (GETs)

Hitachi provides an array of Hitachi Ground Engaging Tools developed and built for a variety of applications.

Using high-quality, well-maintained GETs will help you get customers' trust.

Note: Some dealers do not handle Hitachi GETs.

Remanufactured Components

Hitachi components are remanufactured according to the stringent remanufacturing standards at four factories around the world. They have high quality equivalent to new ones, and backed up by Hitachi warranty system.

Note: Some dealers do not handle Hitachi Remanufactured Components.

Service

Extended Warranty — HELP

Hitachi Standard Warranty System is available on all new Hitachi machines. In addition, Hitachi offers Hitachi Extended Life Programs (HELPS) to suit customer expectations –

protecting machines under tough operating conditions, avoiding unexpected downtime, and reducing repair costs.

Note: Warranty conditions vary by equipment.

Diagnostic Tools — Maintenance Pro

Electronic control system needs quick on-site solutions, apart from mechanical repairs. Hitachi's Maintenance Pro can diagnose machine failures in a short time by plugging a PC into a failed machine.

Technical Training

On-site servicing matters despite locations to keep the machine at peak performance and reduce downtime. Technical Training Center (TTC), located in Japan, educates and trains service technicians and service support personnel coming from Hitachi dealers and factories on the globe according to the international training programs.

SPECIFICATIONS

ENGINE

Model	Isuzu BB-6WG1XQA-05
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 9249, net	H/P mode:
(Without Fan)	312 kW (418 HP) at 1 800 min ⁻¹ (rpm)
SAE J1349, net	H/P mode:
(Without Fan)	312 kW (418 HP) at 1 800 min ⁻¹ (rpm)
Maximum torque	1 621 Nm (165 kgf m) at 1 500 min ⁻¹ (rpm)
Piston displacement ..	15.681 L
Bore and stroke	147 mm x 154 mm
Batteries	2 x 12 V / 170 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow ..	2 x 443 L/min
Pilot pump	1 gear pump
Maximum oil flow ..	50 L/min

Hydraulic Motors

Travel	2 axial piston motors with parking brake
Swing	2 axial piston motors

Relief Valve Settings

Implement circuit	31.9 MPa (325 kgf/cm ²)
Swing circuit	29.4 MPa (300 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power boost	34.3 MPa (350 kgf/cm ²)

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	190 mm	130 mm
Arm	1	200 mm	140 mm
Bucket	1	180 mm	130 mm
Bucket BE	1	190 mm	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 (rpm)
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Operator's Cab

ZX670LC-5G:

Independent spacious cab, 1 025 mm wide by 1 675 mm high, The OPG top guard fitted Level I conforms to the related requirements of the International Organization Standardization(ISO)10262.

ZX670LCH-5G (H/R cab):

Independent spacious cab, 1 025 mm wide by 1 817 mm high, The OPG top guard fitted Level II conforms to the related requirements of the International Organization Standardization(ISO)10262.

UNDERCARRIAGE

Tracks

Track shoes with double 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: ZX670LC-5G 8: ZX670LCH-5G
Track shoes	47: ZX670LC-5G 47: ZX670LCH-5G
Idler track guard	1
Track guard	2: ZX670LC-5G Full track guard: ZX670LCH-5G

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 4.8 km/h Low : 0 to 3.3 km/h
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Maximum traction force .. 460 kN (46 900 kgf)

Gradeability

SERVICE REFILL CAPACITIES

Fuel tank	920.0 L
Engine coolant	68.0 L
Engine oil	52.0 L
Pump device	6.2 L
Swing device (each side)	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

Shoe type	Shoe width	Boom type	Arm type	ZX670LC-5G		ZX670LCH-5G	
				kg	kPa (kgf/cm ²)	kg	kPa (kgf/cm ²)
Double	650 mm	6.8 m BE	2.9 m BE	67 300	101 (1.03)	68 100	102 (1.04)
		Bucket capacity		3.5 m ³		3.3 m ³ rock bucket	
		7.8 m	3.6 m	66 800	100 (1.02)	68 200	102 (1.04)
		Bucket capacity		2.9 m ³		2.9 m ³ rock bucket	
		7.8 m	4.2 m	67 000	101 (1.02)	-	-
		Bucket capacity		2.5 m ³		-	
	750 mm	6.8 m BE	2.9 m BE	67 600	88 (0.90)	-	-
		Bucket capacity		3.5 m ³		-	
		7.8 m	3.6 m	67 200	87 (0.89)	-	-
		Bucket capacity		2.9 m ³		-	
		7.8 m	4.2 m	67 400	88 (0.89)	-	-
		Bucket capacity		2.5 m ³		-	
900 mm	6.8 m BE	2.9 m BE	68 700	74 (0.76)	-	-	
	Bucket capacity		3.5 m ³		-		
	7.8 m	3.6 m	68 200	74 (0.75)	-	-	
	Bucket capacity		2.9 m ³		-		
	7.8 m	4.2 m	68 400	74 (0.76)	-	-	
	Bucket capacity		2.5 m ³		-		

BUCKET LIST

ZX670LC-5G

Capacity	Width		No. of teeth	Weight	Recommendation			
	Without side cutters	With side cutters			6.8 m BE-boom		7.8 m boom	
					2.9 m BE-arm	3.6 m arm	4.2 m arm	
2.50 m ³	1 480 mm	1 620 mm	5	2 150 kg	x	⊙	⊙	
2.90 m ³	1 680 mm	1 820 mm	5	2 310 kg	x	⊙	-	
3.50 m ³	1 800 mm	1 990 mm	5	2 980 kg	⊙	x	x	
Applicable shoe type					650 mm Double grouser			
					750 mm Double grouser			
					900 mm Double grouser			

⊙ Suitable for material with density of 1 800 kg / m³ or less

- Not applicable

x Can't be installed

ZX670LCH-5G

Capacity	Width		No. of teeth	Weight	Recommendation			
	Without side cutters	With side cutters			6.8 m BE-boom		7.8 m H-boom	
					2.9 m BE-arm	3.6 m H-arm		
*1 2.90 m ³	1 680 mm	1 680 mm	5	2 850 kg	x	●		
*1 3.30 m ³	1 790 mm	1 790 mm	5	3 120 kg	●	x		
*2 1.50 m ³	-	1 310 mm	3	3 150 kg	x	●		
*2 1.80 m ³	-	1 570 mm	3	3 750 kg	●	x		
One-point ripper			1	1 800 kg	●	●		
Applicable shoe type					650 mm Double grouser			

*1 Rock bucket

*2 Ripper bucket

● Heavy-duty service

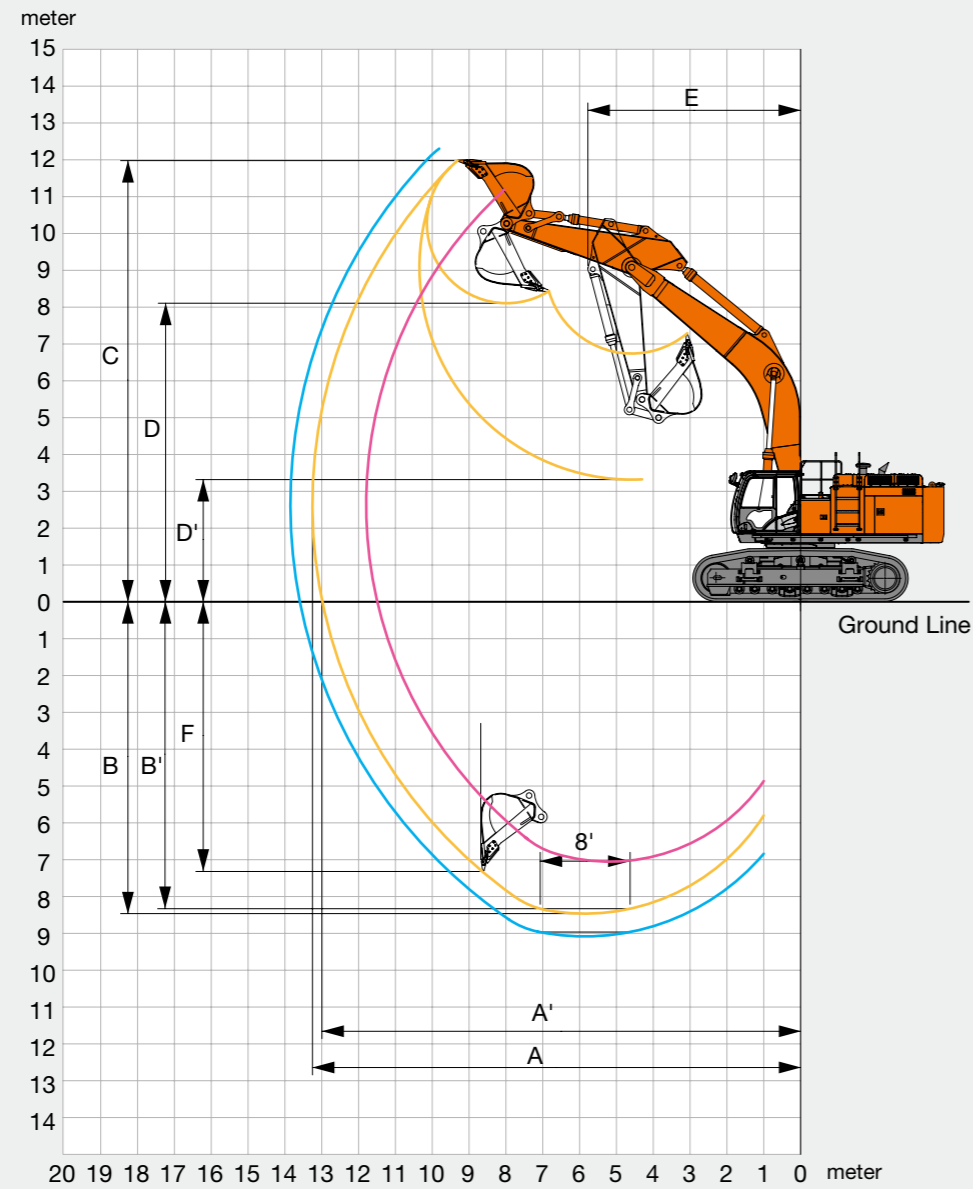
- Not applicable

x Can't be installed

SPECIFICATIONS

WORKING RANGES

ZX670LC-5G



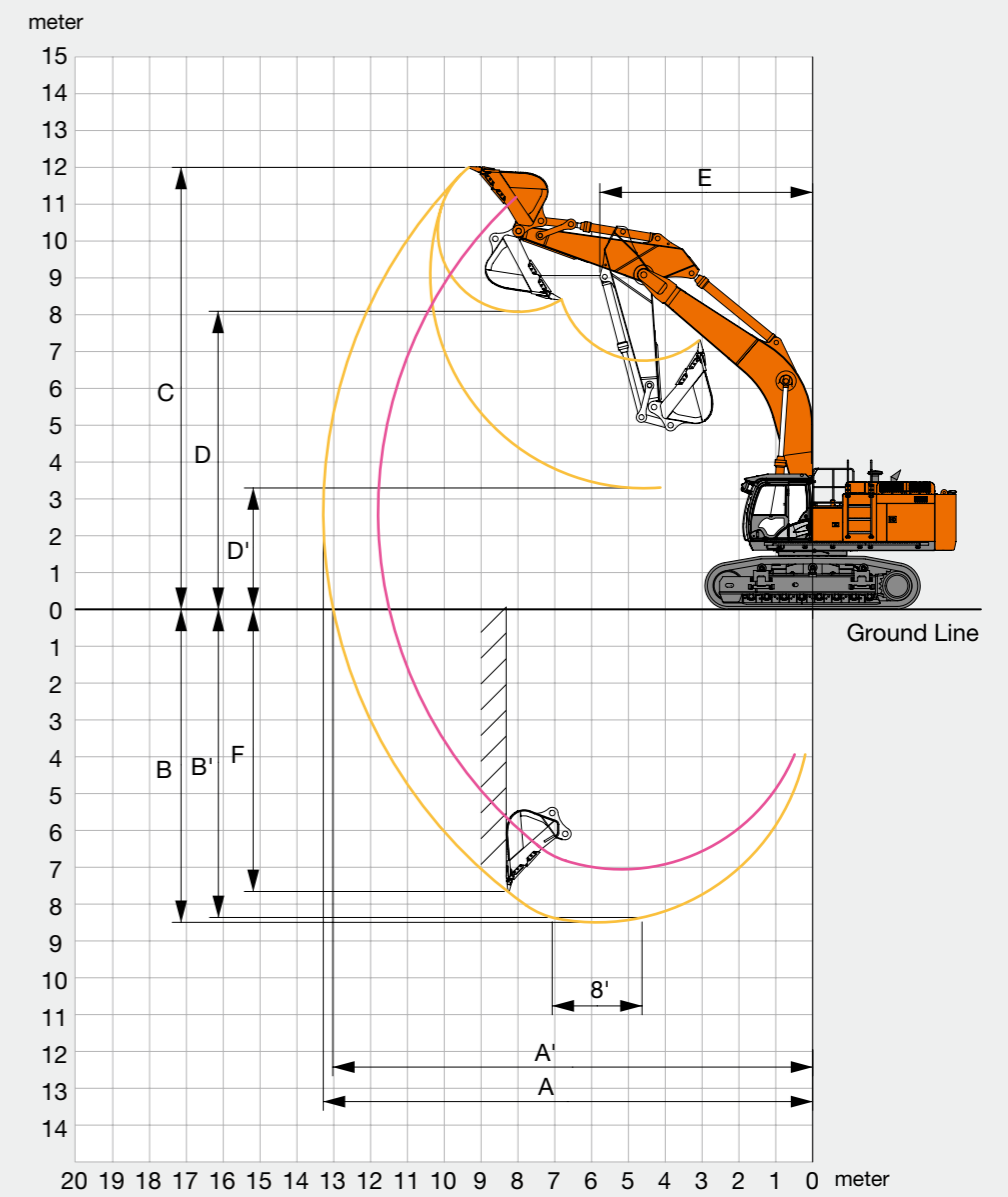
Unit: mm

	ZX670LC-5G		
	6.8 m BE-boom	7.8 m boom	
	2.9 m BE-arm	3.6 m arm	4.2 m arm
A Max. digging reach	11 800	13 250	13 850
A' Max. digging reach (on ground)	11 500	13 000	13 610
B Max. Digging depth	7 120	8 530	9 150
B' Max. Digging depth (8' level)	6 970	8 400	9 030
C Max. cutting height	11 190	11 920	12 240
D Max. dumping height	7 330	8 050	8 330
D' Min. dumping height	3 200	3 260	2 640
E Min. swing radius	5 240	5 780	5 760
F Max. vertical wall	5 280	7 380	8 180

Excluding track shoe lug

WORKING RANGES

ZX670LCH-5G



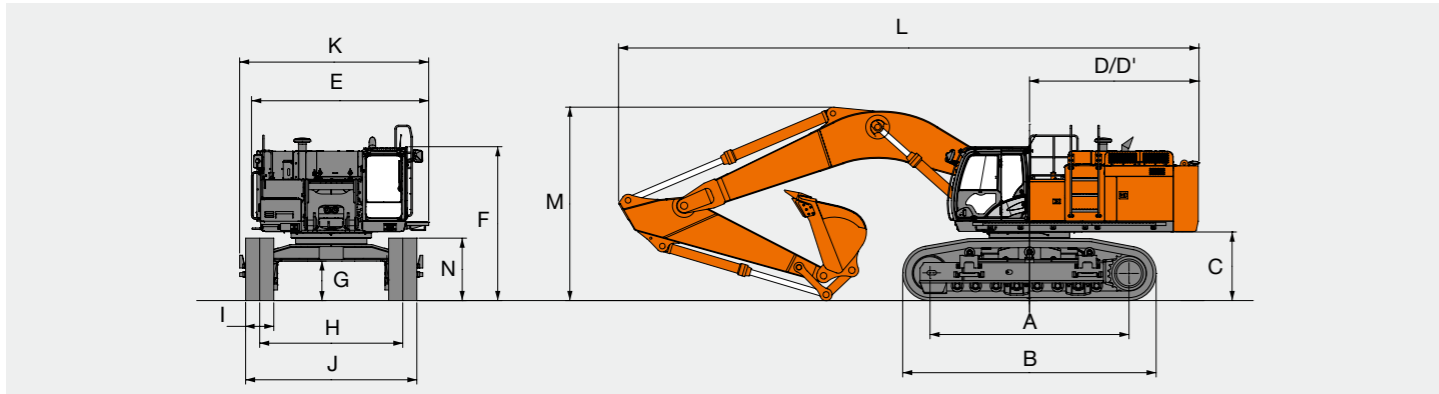
Unit: mm

	ZX670LCH-5G	
	6.8 m BE-boom	7.8 m H-boom
	2.9 m BE-arm	3.6 m H-arm
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 (8' 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	5 280	7 720

Excluding track shoe lug

SPECIFICATIONS

DIMENSIONS



Unit: mm

Retractable gauge	ZX670LC-5G	ZX670LCH-5G
A Distance between tumbler	4 590	4 590
B Undercarriage length	5 840	5 840
*1 C Counterweight clearance	1 530	1 530
D Rear-end swing radius	4 020	4 020
D' Rear-end length	3 910	3 910
E Overall width upperstructure	4 090	4 090
F Overall height of cab	3 550	3 660
*1 G Min. ground clearance	860	860
H Track gauge : Extended / Retracted	3 300 / 2 830	3 300 / 2 830
I Track shoe width	650 / 750 / 900	650
J Undercarriage width with 650 mm shoe	3 950 / 3 480	3 950 / 3 480
: Extended / Retracted with 750 mm shoe	4 050 / 3 580	—
with 900 mm shoe	4 200 / 3 730	—
K Overall width	4 360	4 360
L Overall length	13 400	13 400
M Overall height of boom	4 460	4 460
N Track height	1 440	1 440

*1 Excluding track shoe lug

BUCKET AND ARM DIGGING FORCES

ZX670LC-5G

	6.8 m BE-boom		7.8 m boom	
	2.9 m BE-arm	3.6 m arm	3.6 m arm	4.2 m arm
Bucket digging force* ISO	369 kN (37 700 kgf)	324 kN (33 100 kgf)	324 kN (33 100 kgf)	
Bucket digging force*SAE : PCSA	332 kN (33 900 kgf)	290 kN (29 600 kgf)	290 kN (29 600 kgf)	
Arm crowd force* ISO	306 kN (31 200 kgf)	255 kN (26 000 kgf)	231 kN (23 600 kgf)	
Arm crowd force* SAE : PCSA	297 kN (30 300 kgf)	247 kN (25 200 kgf)	224 kN (22 900 kgf)	

*At power boost

ZX670LCH-5G

	6.8 m BE-boom		7.8 m H-boom	
	2.9 m BE-arm	3.6 m H-arm	3.6 m H-arm	
Bucket digging force* ISO	369 kN (37 700 kgf)	324 kN (33 100 kgf)	324 kN (33 100 kgf)	
Bucket digging force*SAE : PCSA	332 kN (33 900 kgf)	286 kN (29 200 kgf)	286 kN (29 200 kgf)	
Arm crowd force* ISO	306 kN (31 200 kgf)	255 kN (26 000 kgf)	255 kN (26 000 kgf)	
Arm crowd force* SAE : PCSA	297 kN (30 300 kgf)	246 kN (25 100 kgf)	246 kN (25 100 kgf)	

*At power boost

LIFTING CAPACITIES (Without bucket)

Notes: 1. Ratings are based on ISO 10567.

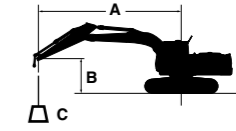
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.

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 lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.



A: Load radius

B: Load point height

C: Lifting capacity

ZX670LC-5G

Rating over-front Rating over-side or 360 degrees Unit : kg

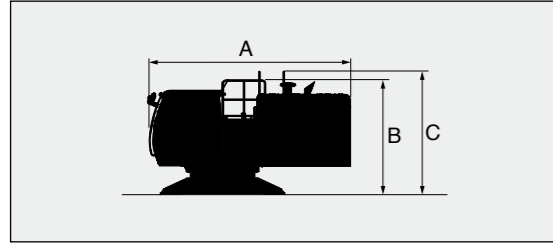
Conditions	Load point height m	Load radius m										At max. reach							
		3.0		4.5		6.0		7.5		9.0		10.5							
		Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	meter					
Boom 7.8m	7.5																		
Arm 3.6m	6.0																		
Without Bucket	4.5																		
Shoes 650mm	3.0																		
	1.5																		
	0(Ground)																		
	-1.5																		
	-3.0	*22 580	*22 580	*23 310	*23 310	*27 220	20 240	21 140	14 650	16 160	11 380								
	-4.5	*33 020	*33 020	*28 790	*28 790	*22 970	20 640	*18 320	14 890										
	-6.0			*22 390	*22 390	*17 820	*17 820												
Boom 7.8m	7.5																		
Arm 4.2m	6.0																		
Without Bucket	4.5																		
Shoes 650mm	3.0																		
	1.5																		
	0(Ground)																		
	-1.5																		
	-3.0																		
	-4.5																		
	-6.0																		
BE-Boom 6.8m	7.5																		
BE-Arm 2.9m	6.0																		
Without Bucket	4.5																		
Shoes 650mm	3.0																		
	1.5																		
	0(Ground)																		
	-1.5																		
	-3.0																		
	-4.5																		
	-6.0																		
BE-Boom 6.8m	7.5																		
BE-Arm 2.9m	6.0																		
Without Bucket	4.5																		
Shoes 650mm	3.0																		
	1.5																		
	0(Ground)																		
	-1.5																		
	-3.0	*37 800	*37 800	*31 570	*31 570	*24 670	21 050	*18 920	15 370										
	-4.5			*24 650	*24 650	*18 660	*18 660												

ZX670LCH-5G

Rating over-front Rating over-side or 360 degrees Unit : kg

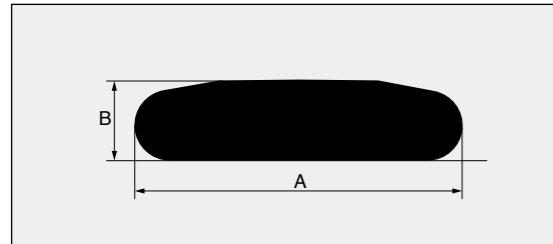
Conditions	Load point height m	Load radius m										At max. reach							
		3.0		4.5		6.0		7.5		9.0		10.5							
		Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	meter					
H-Boom 7.8m	7.5																		
H-Arm 3.6m	6.0																		
Without Bucket	4.5																		
Shoes 650mm	3.0																		
	1.5																		
	0(Ground)																		
	-1.5																		
	-3.0	*22 490	*22 490	*32 660	*32 660	*25 640	20 430	*20 510	14 720	16 270	11 440								
	-4.5	*32 920	*32 920	*28 660	*28 660	*22 850	20 760	*18 200	14 960										
	-6.0			*22 270	*22 270	*17 700	*17 700												
BE-Boom 6.8m	7.5																		
BE-Arm 2.9m	6.0																		
Without Bucket	4.5																		
Shoes 650mm	3.0																		
	1.5																		
	0(Ground)																		
	-1.5																		
	-3.0	*37 800	*37 800	*35 530	33 380	*27 310	21 060	*21 550	15 310										
	-4.5			*24 650	*24 650	*18 660	*18 660												

UPPERSTRUCTURE



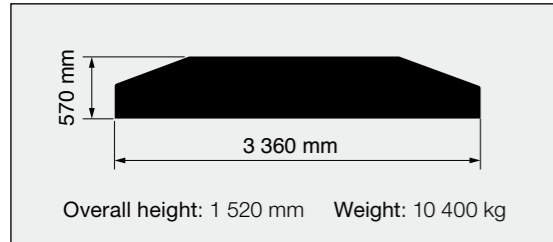
	Overall width	Weight	A	B	C
ZX670LC-5G	3 510 mm	19 900 kg	5 220 mm	2 910 mm	3 140 mm
ZX670LCH-5G		20 100 kg			

SIDE FRAME

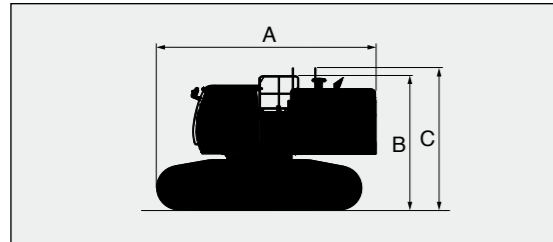


	Shoe width	Overall width	Weight	A	B
ZX670LC-5G	650 mm	1 250 mm	10 400 kg	5 840 mm	1 450 mm
	750 mm	1 250 mm	10 700 kg		
	900 mm	1 320 mm	11 200 kg		
ZX670LCH-5G	650 mm	1 250 mm	10 600 kg		

COUNTERWEIGHT



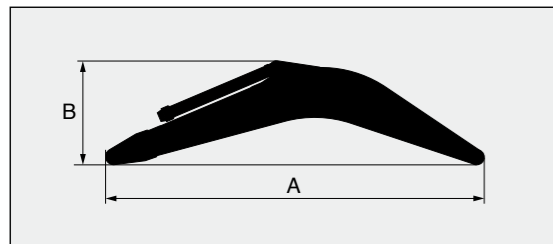
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



	Shoe width	Overall width	Weight	A	B	C
ZX670LC-5G	650 mm	3 480 mm	42 700 kg	6 240 mm	3 820 mm	4 050 mm
	750 mm	3 580 mm	43 100 kg			
	900 mm	3 730 mm	44 100 kg			
ZX670LCH-5G	650 mm	3 480 mm	43 400 kg			

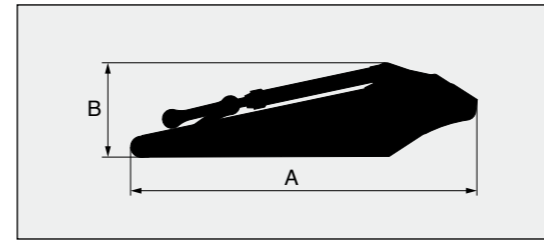
Notes: Undercarriage retracted.

BOOM



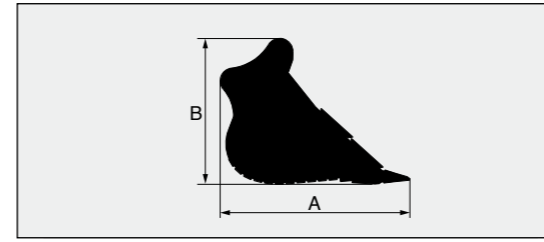
Boom	A	B	Overall width	Weight
6.8 m BE	7 140 mm	2 510 mm	1 390 mm	6 110 kg
7.8 m H	8 130 mm	2 330 mm	1 390 mm	6 560 kg
7.8 m	8 130 mm	2 330 mm	1 390 mm	6 550 kg

ARM



Arm	A	B	Overall width	Weight
2.9 m BE	4 370 mm	1 690 mm	800 mm	3 820 kg
3.6 m	5 110 mm	1 440 mm	800 mm	3 620 kg
3.6 m H	5 110 mm	1 440 mm	800 mm	3 750 kg
4.2 m	5 710 mm	1 390 mm	800 mm	3 930 kg

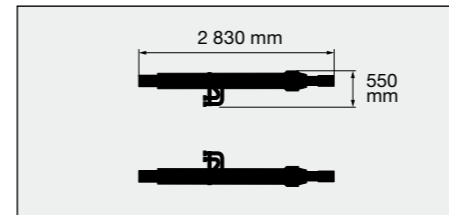
BUCKET



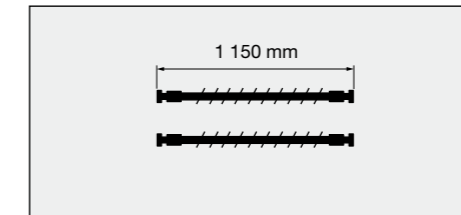
Bucket Capacity ISO heaped	A	B	Overall width	Weight
2.50 m ³	2 220 mm	1 810 mm	1 620 mm	2 150 kg
2.90 m ³	2 220 mm	1 810 mm	1 820 mm	2 310 kg
3.50 m ³	2 250 mm	1 890 mm	1 990 mm	2 980 kg
*1.2.90 m ³	2 290 mm	1 770 mm	1 680 mm	2 850 kg
*1.3.30 m ³	2 250 mm	1 890 mm	1 790 mm	3 120 kg

*1: Rock Bucket

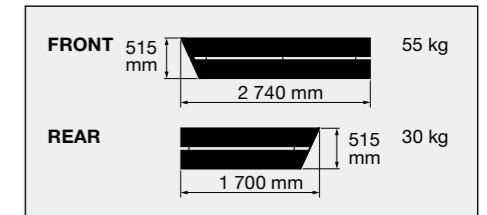
BOOM CYLINDERS 550 kg X 2 Overall height: 410 mm



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



LEFT SIDEWALK Overall height: 150 mm



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

● : Standard equipment ○ : Optional equipment — : Not applicable

ENGINE	ZX670LC-5G	ZX670LCH-5G
Auto idle system	●	●
Cartridge-type engine oil filter	●	●
Cartridge-type fuel filter	●	●
Dry-type air double filter with evacuator valve with air filter restriction switch for monitor	●	●
Fan guard	●	●
Fuel pre-filter	●	●
Power mood control [H/P(High Power) PWR(Power) ECO(Economy)]	●	●
Isolation-mounted engine	●	●
Pre-cleaner	○	○
Radiator, oil cooler and intercooler with dust protective net	●	●
Radiator reserve tank	●	●
50 A alternator	●	●

HYDRAULIC SYSTEM		
Accessories for breaker	—	○
Accessories for breaker & crusher	—	○
Accessories for 2 speed selector	—	○
Auto power lift	●	●
Boom mode selector system	●	●
Control valve with main relief valve	●	●
Drain filter	●	●
Engine speed sensing system	●	●
E-P control system	●	●
Extra port for control valve	●	●
Full-flow filter	●	●
Hose rupture valve	○	○
Pilot filter	●	●
Power boost	●	●
Quick warm-up system for pilot circuit	●	●
Shockless valve in pilot circuit	●	●
Suction filter	●	●
Work mode selector	●	●

CAB	ZX670LC-5G	ZX670LCH-5G
Additional fuse box	●	●
Adjustable armrests	●	●
All-weather sound suppressed steel cab	●	●
AM-FM radio	●	●
Ashtray	●	●
Auto control air conditioner	●	●
Auto-idle selector	●	●
AUX. terminal and storage	○	○
Cab : (Center pillar reinforced structure)	●	—
OPG top guard fitted Level I (ISO10262) compliant cab	●	—
Round Tempered glass (green color) front window	●	—
Front window on upper, lower and left side can be opened	●	—
Cab : H/R cab	—	●
OPG top guard fitted Level II (ISO10262)	—	●
OPG front guard fitted Level II (ISO10262)	—	○
Laminated straight glass front window	—	●
Left side window can be opened	—	●
Drink holder	●	●
Engine shut-off cable	●	●
Electric double horn	●	●
Evacuation hammer	●	●
Fire extinguisher bracket	○	○
Floor mat	●	●
Footrest	●	●
Front window washer	●	●
Glove compartment	●	●
Hot & cool box	●	●
Intermittent windshield wiper	●	●
Key cylinder light	●	●
LED room light with door courtesy	●	●
Pilot control shut-off lever	●	●
Rain guard for cab	○	—
Rear tray	●	●
Retractable seat belt	●	●
Rubber radio antenna	●	●
Seat : Adjustable reclining mechanical suspension	●	●
Seat : Adjustable reclining mechanical suspension with heater	○	○
Seat : Adjustable reclining air suspension with heater	○	○
Short wrist control levers	●	●
Storage box	●	●
Sun visor (front)	○	○
Sun visor (side)	○	○
Transparent roof with slide curtain	—	●
2 speaker	●	●
6 fluid-filled elastic mounts	●	●
12 V power outlet	○	○
24 V cigarette lighter	●	●

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

● : Standard equipment ○ : Optional equipment — : Not applicable

MONITOR SYSTEM	ZX670LC-5G	ZX670LCH-5G
Alarm buzzers: overheat, engine oil pressure	●	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, air filter restriction, work mode, etc	●	●
Display of meters: water temperature, hour, fuel rate, clock	●	●
Other displays: work mode, auto-idle, glow, operating conditions etc	●	●

LIGHTS		
2 cab lights	○	●
3 working lights	●	●
4 cab lights	○	○
Additional working lights(boom right side)	○	○

UPPER STRUCTURE		
Electric fuel refilling pump with auto stop	○	○
Auto-grease lubricator	○	○
Electrical grease pump with hose-reel	○	○
Fuel level float	●	●
Hydraulic oil level gauge	●	●
Ladder	●	●
Rear view camera	○	○
Rear view mirror (right & left side)	●	●
Side walk (cab side)	●	●
Swing parking brake	●	●
Tool box	●	●
Utility space	●	●
170 Ah batteries	●	●
2.3 mm thickness undercover	●	—
4.5 mm thickness undercover	—	●
10 400 kg counterweight	●	●

UNDERCARRIAGE		
Bolt-on sprocket	●	●
Full track guard	—	●
Hydraulic track adjuster	●	●
Idler track guard	●	●
Reinforced track links with pin seals	●	●
Travel motor covers	●	●
Travel parking brake	●	●
Track undercover	○	○
Upper and lower rollers	●	●
2 track guard (each side)	●	—
650 mm double grouser shoes	●	●
750 mm double grouser shoe with standard track guard	○	—
900 mm double grouser shoe with standard track guard	○	—

FRONT ATTACHMENTS	ZX670LC-5G	ZX670LCH-5G
Centralized lubrication system	●	●
Damage prevention plate and square bars	—	●
Dirt seal on all bucket pins	●	●
Flanged pin	●	●
Monolithically cast bucket link A	●	●
2.5 m³ (ISO heaped) bucket	○	—
2.9 m³ (ISO heaped) bucket	●	—
3.5 m³ (ISO heaped) bucket	○	—
2.9 m³ (ISO heaped) rock bucket with dual type side shrouds	—	●
3.3 m³ (ISO heaped) rock bucket with dual type side shrouds	—	○
7.8 m boom and 3.6 m arm	●	—
7.8 m H-boom and 3.6 m H-arm	—	●
6.8 m BE-boom	○	○
4.2 m arm	○	—
2.9 m BE-arm	○	○

MISCELLANEOUS		
Anti-slip steps and handrails	●	●
Lockable fuel refilling cap	●	●
Lockable machine covers	●	●
Onboard information controller	●	●
Standard tool kit	●	●
Theft deterrent system	●	●
Travel direction mark on track frame	●	●

OTHERS		
Global e-service	●	●



Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

Hitachi Environmental Vision 2025

The Hitachi Group released the Environmental Vision 2025 to curb annual carbon dioxide emissions. The Group is committed to global production while reducing environmental impact in life cycles of all products, and realizing a sustainable society by tackling three goals — prevention of global warming, conservation of resources, and preservation of ecosystem.

Reducing Environmental Impact by New ZAXIS

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZAXIS utilizes lots of technological advances, including the new ECO mode, and Isochronous Control. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

*Life Cycle Assessment – ISO 14040

Before using a machine with a satellite communication system, please make sure that the satellite 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 use, read and understand the Operator's Manual for proper operation.