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 m^3

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

Large Production with Less Fuel
Page 4-5

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

No Compromise on Operator Comfort
Page 8-9

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

Pursuits of Performance and Durability
Page 6-7

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

Simplified Maintenance
Page 10-11

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

Hitachi Support Chain
Page 12-13

- 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 IIIB hydraulic system and engine control system, thereby reducing CO_2 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* IIIB Hydraulics

Operating speed increases with less fuel consumption thanks to the HIOS IIIB 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.

Breaker settings

Pursuits of Performance and Durability

Prestige R&D and Quality Control

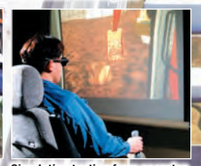
Hitachi has earned praise for technological prowess and product performance around the world.
R&D Division has a track record – including excellent design, stress analysis expertise using CAE system, and abundant production data base. What's more, a large-scale durability test field (427 hm^2) allows 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

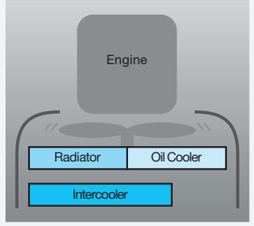

Large-sized excavator assembly line


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

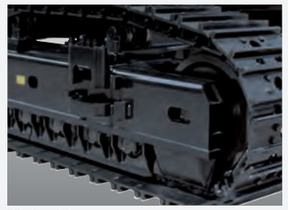
The reliable undercarriage structure of the conventional ZAXIS models is retained for the new ZAXIS. For idler brackets, where stress is concentrated in transit, the box-structure and reinforcing plates limit deformation and enhance travel stability. An enhanced two-step side step ladder is also provided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

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 controler on the control panel. A new rear view monitor camera always displays the view behind the machine.

Menu Items

Main menu

Work mode menu

Engine oil

The photo shows an optional air suspension seat

Simplified Maintenance


Air cleaner


An air conditioner filter for fresh air

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.

Fast Lubrication

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

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.


Inspection points inside the left cover


Inspection points inside the undercover


Centralized boom and arm greasing points

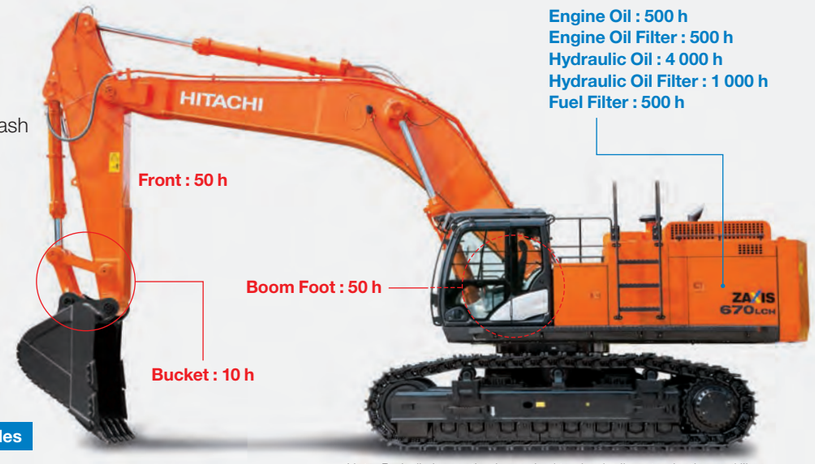

Electric grease gun with hose-reel (Optional)

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.

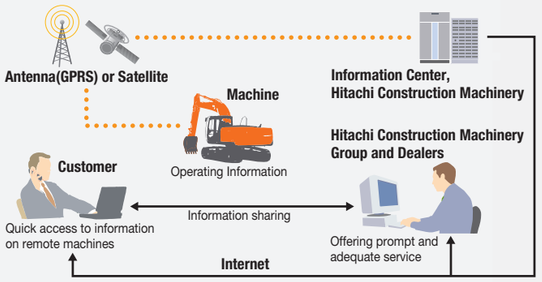
Hitachi Support Chain

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.

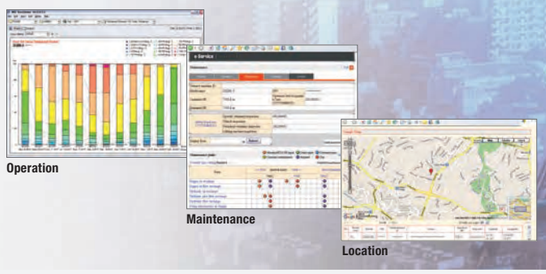


Note: In Some Regions, Global e-Service Is Not Available by Local Regulations.

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 14396	H/P mode: 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)

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
Maximum traction force	460 kN (46 900 kgf)
Gradeability	70% (35 degree) continuous

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

				ZX670LC-5G		ZX670LCH-5G	
Shoe type	Shoe width	Boom type	Arm type	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		
					6.8 m BE-boom	7.8 m boom	
ISO heaped	Without side cutters	With side cutters			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	×	◎	◎
2.90 m^3	1 680 mm	1 820 mm	5	2 310 kg	×	◎	–
3.50 m^3	1 800 mm	1 990 mm	5	2 980 kg	◎	×	×
Applicable shoe type					650 mm Double grouser		
					750 mm Double grouser		
					900 mm Double grouser		

◎ Suitable for material with density of 1 800 kg / m^3 or less
– Not applicable
× Can't be installed

ZX670LCH-5G

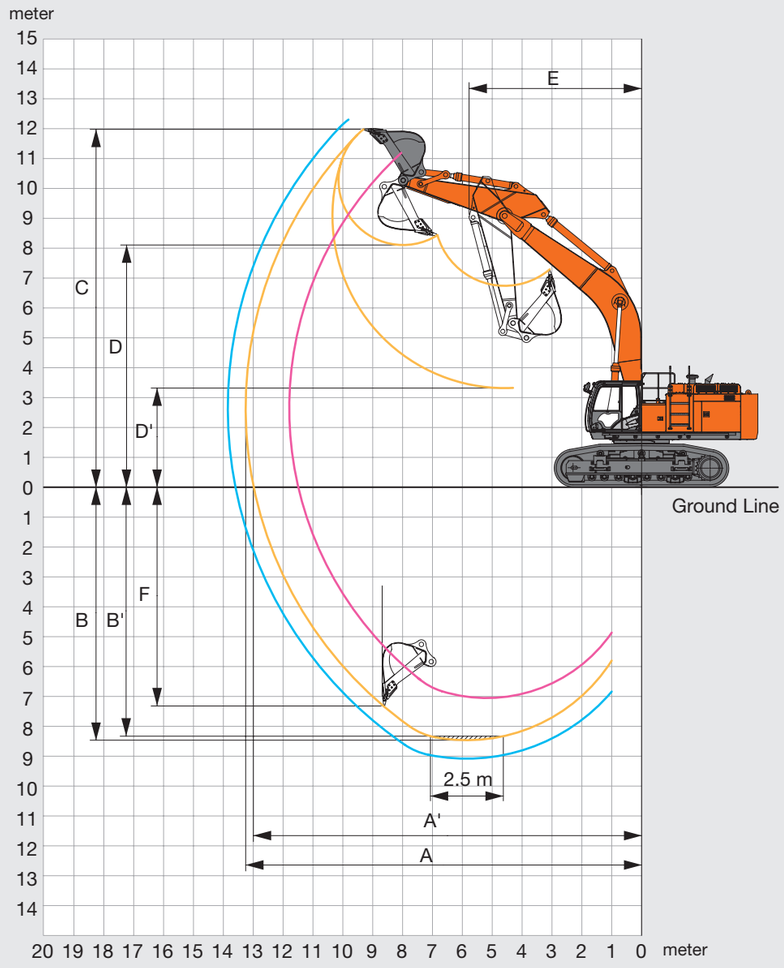
Capacity	Width		No. of teeth	Weight	Recommendation	
					6.8 m BE-boom	7.8 m H-boom
ISO heaped	Without side cutters	With side cutters			2.9 m BE-arm	3.6 m H-arm
*1 2.90 m^3	1 680 mm	1 680 mm	5	2 850 kg	×	●
*1 3.30 m^3	1 790 mm	1 790 mm	5	3 120 kg	●	×
*2 1.50 m^3	–	1 310 mm	3	3 150 kg	×	●
*2 1.80 m^3	–	1 570 mm	3	3 750 kg	●	×
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
× Can't be installed

SPECIFICATIONS

WORKING RANGES

ZX670LC-5G



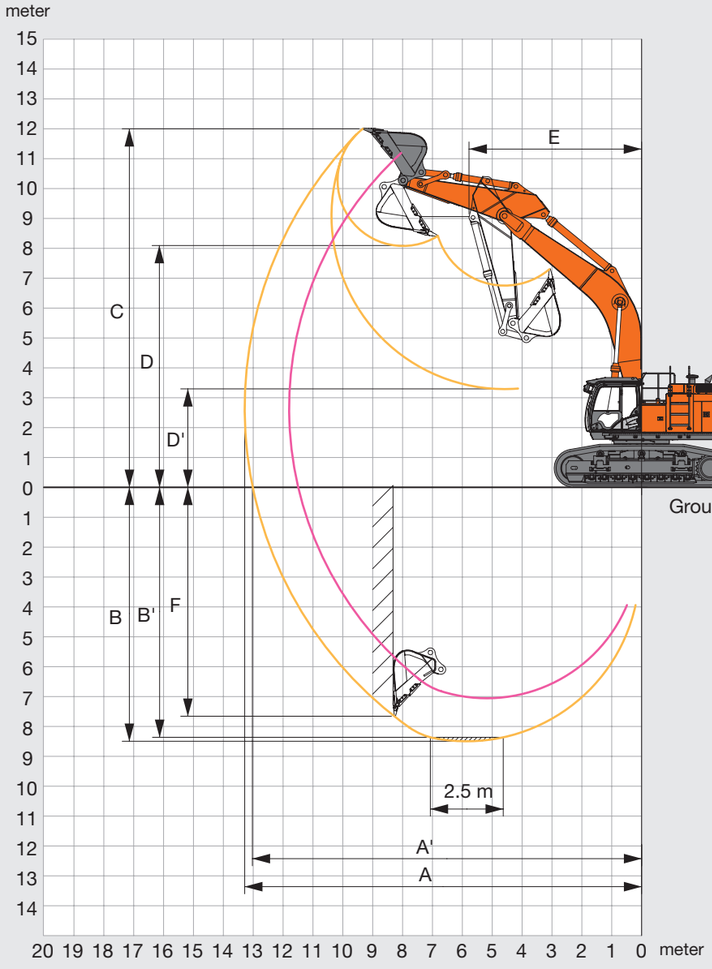
Unit: mm

	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



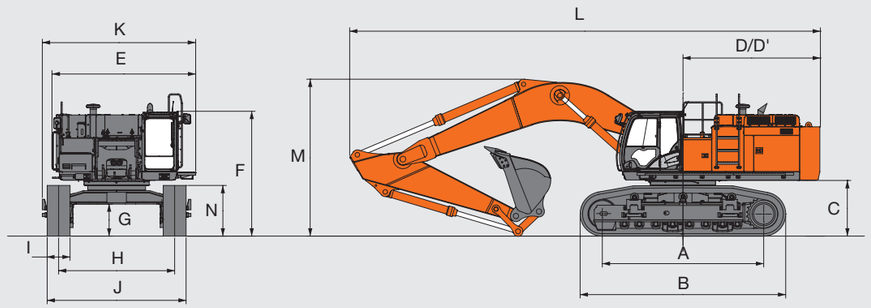
Unit: mm

	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 tumblers		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		3550	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	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

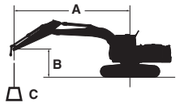
	6.8 m BE-boom	7.8 m H-boom
	2.9 m BE-arm	3.6 m H-arm
Bucket digging force* ISO	369 kN (37 700 kgf)	324 kN (33 100 kgf)
Bucket digging force*SAE : PCSA	332 kN (33 900 kgf)	286 kN (29 200 kgf)
Arm crowd force* ISO	306 kN (31 200 kgf)	255 kN (26 000 kgf)
Arm crowd force* SAE : PCSA	297 kN (30 300 kgf)	246 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 3.0		4.5		6.0		7.5		9.0		10.5		At max. reach		
																meter
Boom 7.8m Arm 3.6m Without Bucket Shoes 650mm	7.5									*13 620	13 480			*9 390	*9 390	9.92
	6.0							*15 780	*15 780	*14 280	13 150	*9 860	*9 860	*9 420	*9 420	10.5
	4.5					*21 680	*21 680	*17 580	16 750	*15 270	12 700	*13 690	9 950	*9 680	9 310	10.9
	3.0					*24 830	21 950	*19 390	15 940	*16 330	12 230	13 500	9 690	*10 180	8 900	11.1
	1.5					*26 880	20 940	*20 810	15 290	16 640	11 820	13 250	9 460	*10 980	8 780	11.0
	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	32 520	*25 760	20 320	*20 630	14 650	16 200	11 410			14 920	10 560	9.56
	-4.5	*33 020	*33 020	*28 790	*28 790	*22 970	20 640	*18 320	14 890					*15 400	12 640	8.48
	-6.0			*22 390	*22 390	*17 820	*17 820							*14 830	*14 830	6.92
Boom 7.8m Arm 4.2m Without Bucket Shoes 650mm	7.5									*12 620	*12 620	*8 510	*8 510	*7 930	*7 930	10.6
	6.0									*13 390	13 300	*11 660	10 290	*7 930	*7 930	11.2
	4.5					*20 000	*20 000	*16 490	*16 490	*14 460	12 810	*13 210	10 020	*8 110	*8 110	11.5
	3.0					*23 350	22 250	*18 430	16 080	*15 620	12 290	13 530	9 720	*8 470	8 190	11.7
	1.5					*25 850	21 030	*20 060	15 320	16 640	11 820	13 220	9 430	*9 050	8 070	11.6
	0(Ground)					*27 120	20 300	*21 110	14 780	16 250	11 450	12 990	9 210	*9 930	8 190	11.4
	-1.5					*27 230	19 980	20 960	14 480	16 020	11 240	12 860	9 090	12 160	8 610	10.9
	-3.0			*30 360	*30 360	*26 280	19 950	20 870	14 400	15 960	11 190			13 350	9 430	10.2
	-4.5			*30 800	*30 800	*24 110	20 170	*19 260	14 540	*15 250	11 360			*14 540	10 980	9.25
	-6.0			*25 430	*25 430	*20 130	*20 130	*15 560	15 010					*14 410	14 140	7.85
BE-Boom 6.8m BE-Arm 2.9m Without Bucket Shoes 650mm	7.5							*16 810	*16 810					*12 500	*12 500	8.22
	6.0					*19 710	*19 710	*17 550	17 470					*12 210	*12 210	8.97
	4.5					*22 640	*22 640	*18 960	16 840	*17 010	12 680			*12 320	11 780	9.41
	3.0					*25 600	22 380	*20 520	16 160	17 190	12 350			*12 810	11 190	9.60
	1.5					*27 590	21 440	*21 730	15 590	16 860	12 040			*13 740	11 080	9.55
	0(Ground)					*28 180	20 950	21 770	15 240	16 670	11 870			*15 290	11 450	9.25
	-1.5			*35 530	33 030	*27 310	20 830	*21 550	15 140					17 580	12 490	8.68
	-3.0	*37 800	*37 800	*31 570	*31 570	*24 670	21 050	*18 920	15 370					*17 710	14 680	7.78
	-4.5			*24 650	*24 650	*18 660	*18 660							*16 670	*16 670	6.40

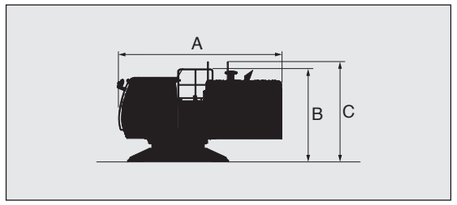
ZX670LCH-5G

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

Conditions	Load point height m	Load radius m 3.0		4.5		6.0		7.5		9.0		10.5		At max. reach		
																meter
H-Boom 7.8m H-Arm 3.6m Without Bucket Shoes 650mm	7.5									*13 510	*13 510			*9 300	*9 300	9.92
	6.0							*15 670	*15 670	*14 180	13 190	*9 770	*9 770	*9 330	*9 330	10.5
	4.5					*21 570	*21 570	*17 470	16 820	*15 160	12 740	*13 600	9 970	*9 590	9 320	10.9
	3.0					*24 710	22 070	*19 270	16 010	*16 220	12 270	13 540	9 710	*10 090	8 910	11.1
	1.5					*26 760	21 060	*20 690	15 360	16 720	11 860	13 290	9 470	*10 890	8 790	11.0
	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	9.56
	-4.5	*32 920	*32 920	*28 660	*28 660	*22 850	20 760	*18 200	14 960					*15 290	12 680	8.48
	-6.0			*22 270	*22 270	*17 700	*17 700							*14 720	*14 720	6.92
BE-Boom 6.8m BE-Arm 2.9m Without Bucket Shoes 650mm	7.5							*16 810	*16 810					*12 500	*12 500	8.22
	6.0					*19 710	*19 710	*17 550	*17 550					*12 210	*12 210	8.97
	4.5					*22 640	*22 640	*18 960	17 000	*17 010	12 810			*12 320	11 910	9.41
	3.0					*25 600	22 600	*20 520	16 320	17 360	12 480			*12 810	11 310	9.60
	1.5					*27 590	21 660	*21 730	15 760	17 030	12 180			*13 740	11 200	9.55
	0(Ground)					*28 180	21 170	21 990	15 410	16 850	12 000			*15 290	11 580	9.25
	-1.5			*35 530	33 380	*27 310	21 060	*21 550	15 310					*17 760	12 620	8.68
	-3.0	*37 800	*37 800	*31 570	*31 570	*24 670	21 270	*18 920	15 540					*17 710	14 840	7.78
	-4.5			*24 650	*24 650	*18 660	*18 660							*16 670	*16 670	6.40

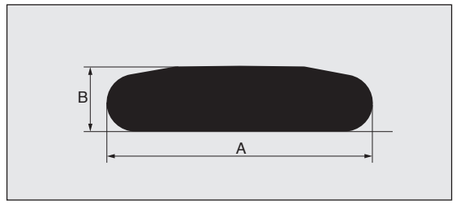
TRANSPORTATION

UPPERSTRUCTURE



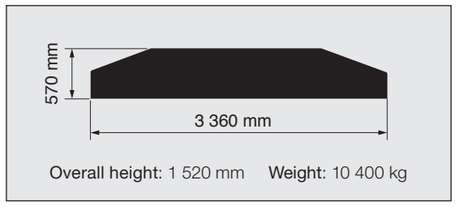
	Overall width	Weight	A	B	C
ZX670LC-5G	3 510 mm	19 900 kg	5 220 mm	2 910 mm	3 140 mm
ZX670LCH-5G		20 100 kg			

SIDE FRAME



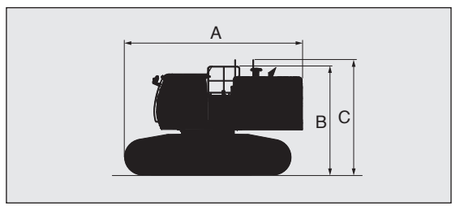
	Shoe width	Overall width	Weight	A	B
ZX670LC-5G	650 mm	1 250 mm	10 400 kg	5 840 mm	1 450 mm
	750 mm	1 250 mm	10 700 kg		
	900 mm	1 320 mm	11 200 kg		
ZX670LCH-5G	650 mm	1 250 mm	10 600 kg		

COUNTERWEIGHT



Overall height: 1 520 mm Weight: 10 400 kg

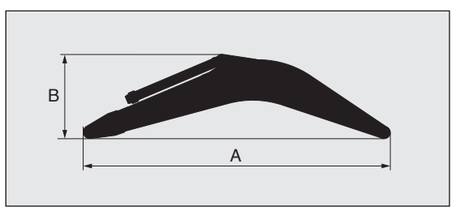
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



	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			

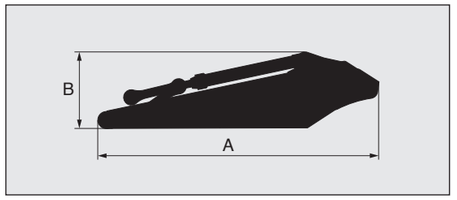
Notes:Undercarriage retracted.

BOOM



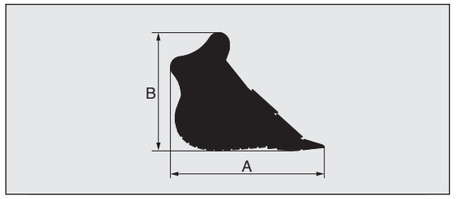
Boom	A	B	Overall width	Weight
6.8 m BE	7 140 mm	2 510 mm	1 390 mm	6 110 kg
7.8 m H	8 130 mm	2 330 mm	1 390 mm	6 560 kg
7.8 m	8 130 mm	2 330 mm	1 390 mm	6 550 kg

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

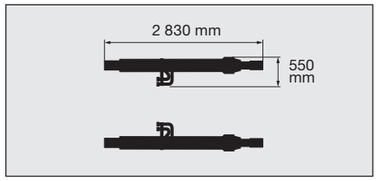
BUCKET



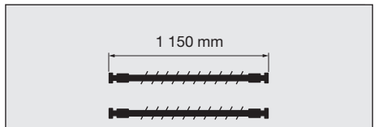
Bucket Capasity ISO heaped	A	B	Overall width	Weight
2.50 m³	2 220 mm	1 810 mm	1 620 mm	2 150 kg
2.90 m³	2 220 mm	1 810 mm	1 820 mm	2 310 kg
3.50 m³	2 250 mm	1 890 mm	1 990 mm	2 980 kg
*1 2.90 m³	2 290 mm	1 770 mm	1 680 mm	2 850 kg
*1 3.30 m³	2 250 mm	1 890 mm	1 790 mm	3 120 kg

*1:Rock Bucket

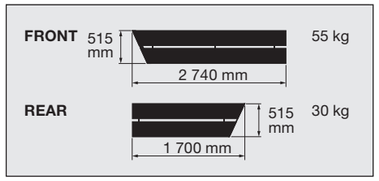
BOOM CYLINDERS 550 kg X 2
Overall height: 410 mm



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



LEFT SIDEWALK Overall height: 150 mm



EQUIPMENT

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 m^3 (ISO heaped) bucket	○	—
2.9 m^3 (ISO heaped) bucket	●	—
3.5 m^3 (ISO heaped) bucket	○	—
2.9 m^3 (ISO heaped) rock bucket with dual type side shrouds)	—	●
3.3 m^3 (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 2050

Our Environmental Vision envisions a low-carbon society; a resource efficient society; a harmonized society with nature. To achieve such a sustainable society, we have established a set of long-term environmental targets called Hitachi Environmental Innovation 2050.

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.

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