

### **HYDRAULIC EXCAVATOR**

- Model Code: ZX 520LCR-3 / ZX 670LCR-3 / ZX 870LCR-3
- Engine Rated Power: ZX 520LCR<sub>-3</sub>: 260 kW (349 hp)

ZX 670LCR-3: 345 kW (463 hp)

ZX 870LCR-3: 397 kW (532 hp)

■ Operating Weight: ZX 520LCR-3: 52 500 kg

ZX 670LCR-3: 68 400 kg

ZX 870LCR-3: 85 500 kg **Backhoe Bucket**: SAE, PCSA Heaped: 1.9 - 4.3 m<sup>3</sup>

CECE Heaped: 1.7 - 3.8 m<sup>3</sup>

# **Tougher and More Powerful in Quarry**







#### **Specially Designed Front Attachment for Quarry**

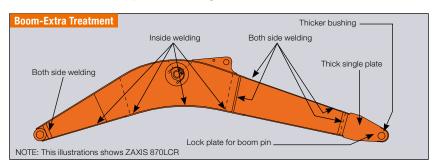
#### **Stronger Boom and Arm**

Higher durability with special reinforcement and stressrelieved welding.

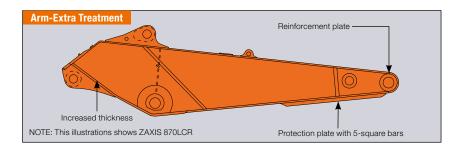
#### **Additional Welding Increases the Strength and Durability**

The boom-end rigidity through the use of a thick single plate and increased boomend bushing thickness also contribute increasing durability.

#### **Arm-End Boss and Arm Cylinder Mounting Bracket are Reinforced**



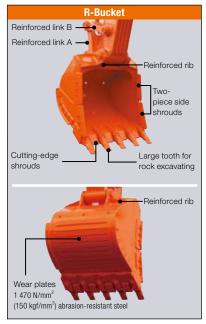
Reinforced arm-end boss and arm cylinder mounting bracket provides higher durability. Protection plate with 5-square bars also enhances reliability in heavy duty operation.



#### Specially Designed Bucket with Wear-Resisting Steel

The R-bucket is made of wear resisting steel, and reshaped with side shrouds, cutting-edge shrouds, and large bucket teeth for enhanced durability. Easily replaceable lateral wear plates help reduce downtime.

The limestone bucket has similar features except number of side shrouds and size of tooth.



#### **Tougher Undercarriage for Rocky Ground Condition**

## Reinforced Travel Motor Cover and Guard (1)

The reinforced travel motor cover with square bars and reinforced travel guard protect travel motor from damage by stone projectiles.

#### Reinforced Idler Part of Side Frame (2)

Rigid structure of side frame withstands frequent shock caused by rock hitting.

#### Track Under Cover (Optional)

Track under cover protects travel pipings and hoses.

#### **Full Track Guard Provided Standard**

On the R-specification machine, full track guards are provided standard. Full track guards protect track links and lower rollers from damage and deformation. Moreover, they also keep out stones, preventing overload to the undercarriage to reduce wear and damage.













#### H/R Cab



The H/R cab utilizes the reinforced front window and FOPS\* at the roof for protection against falling objects. The front window, made of straight-laminated glass, is fixed to shut out dirt and debris. The cab provided with a full guard satisfies the OPG\*\*(Level II) cab requirements stipulated by ISO.

\*Falling Object Protective Structure

#### **Comfort-Designed Operator Seat**

The operator seat is ergonomically designed for long-hour pleasant operation. The seatback is widened to hold the operator securely, and the headrest is reshaped. The operator seat is strengthened to reduce vibration and shocks, and increase durability.

#### **Fluid-Filled Elastic Mounts**

The cab rests on fluid-filled elastic mounts that absorb shocks and vibration to enhance operator comfort.

#### **Pressurized Cab**

The pressurized cab shuts out debris and dirt.

#### Multi-Language, Multi Function Monitor

A large multi-language, multi function monitor is well positioned for easy reading.

#### **Attachment Support System**

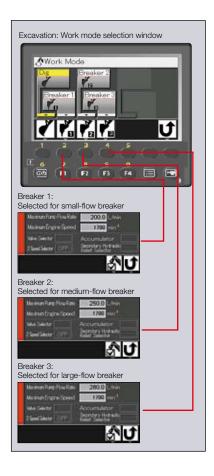
The work mode can be selected from the multi function monitor inside the cab. Pump flow in the selected work mode can be monitored.



#### **Rear View Camera**

The large color LCD monitor, teamed up with the rear view camera on the counterweight, gives the operator unobstructed rearward view. This system enhances safety during swing and reversing.





<sup>\*\*</sup>Operator Protective Guards



#### **Parallel Arrangement of Radiator and** Oil Cooler

The radiator and oil cooler are laid out in parallel arrangement for easy demounting, instead of conventional in-line arrangement. This new arrangement significantly helps facilitate cleaning around the engine.

#### **Dual Main Fuel Filters Provided** Standard

In addition to a prefilter, dual main fuel filters are provided standard to reduce clogging of the fuel line to the engine.

#### **Automatic Lubrication**

The front attachment is automatically lubricated, except for bucket lubricating points at the top of arm.

#### **Extended Hydraulic Oil Filter Change** Intervals

Hydraulic oil filter change intervals are extended from 500 hours (Conventional model) to 1 000 hours to help reduce running costs.







#### **Applicable for Breaker Operation (Optional)**

#### **Double Accumulator (Optional) (1)**

Double accumulator protects hydraulic pumps from pulse beat from breaker.

#### Ergonomic breaker pedal layout (Optional) (2)

#### **Breaker Hour Meter (Optional) (3)**

Breaker hour meter is convienient for managing filter and hydraulic oil replacement in accordance with breaker operation hour.

#### Shatterproof windshield and window (Optional) (4)

Laminated film on the front windshield and right side window to prevent shattering.



ZX 520LCR-3









## Remote fleet management with e-Service Owner's Site

Reduce maintenance effort and costs for your machine fleet with e-Service Owner's Site; latest machine information of each of your machines available on-line, in your office.



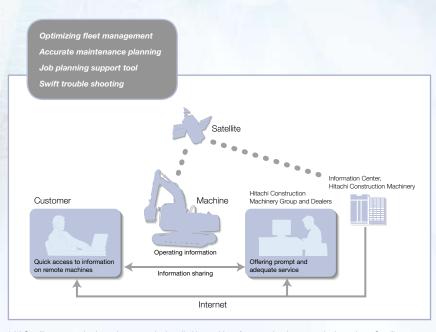
Check and monitor each of your machines from your office

Enhanced service support from your local dealer

#### Actual geographical location of each of your machines

e-Service Owner's Site is an on-line fleet management tool offered by HCME to each of its customers. It will present all operational information and location of your machines on a PC in your office, giving you an up to date overview of your machines, allowing for full fleet control. Each machine will regularly send its operational data to a satellite and from there, via a ground station to a Hitachi server. The data collected in the server will then be processed and directed to each customer around the world. Your machine information will be available through a secure internet connection for you and your dealer. This communication chain is operational 24h a day, each day of the year. It will support your job planning, help you maintain your machine and allow for enhanced service and trouble shooting support by your local dealer, all directly contributing to reduce downtime and increase the cost performance of your fleet.

All new ZAXIS-3 and ZW machines supplied by HCME will have a satellite communication unit installed as standard\*, meaning each owner can directly enjoy the benefits of e-Service Owner's Site. Your local dealer will be able to give you access to e-Service Owner's Site.



- \* (1) Satellite communication units can not be installed in machines for countries that currently do not have Satellite Communication Services available. At the time of print however, the majority of European countries have Satellite Communication Services available and full European coverage is expected.
- (2) Satellite communication basically allows for worldwide coverage. Contact your local dealer for the latest situation on actual satellite communication availability for your country or specific jobsite.
  (3) If transmission of the satellite signal is hindered in any way, satellite communication may not be possible.

#### e-Service Owner's Site features

#### Operation

Remote access to all relevant machine operation information such as daily operating hours and machine fuel level as well as historically cumulated temperatures and pressures.



#### Maintenance

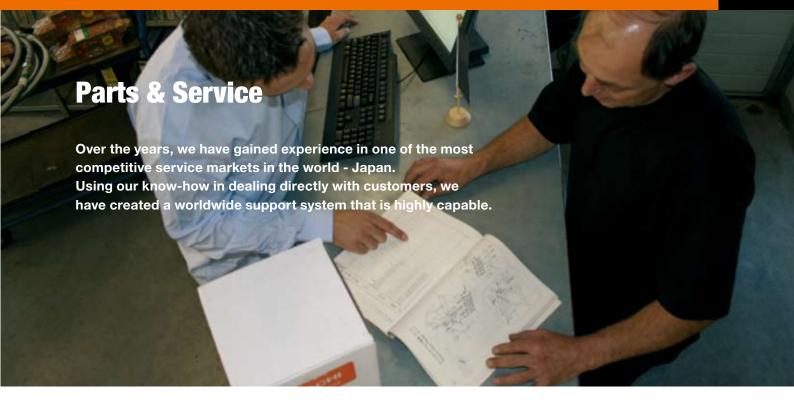
For each machine, maintenance history as well as recommended maintenance due is displayed in one view, allowing for accurate and efficient fleet maintenance management.



#### Location

In addition to any general GPS function, GIS (Geographical Information System) will not only show the geographical position of each machine with immediate serial number identification, it will also allow for dedicated multiple machine searches using specific operational information as search criteria.





#### **Parts**

HITACHI only offers genuine high quality parts. We guarantee that these parts have high performance and long life. We manage around 1 000 000 types of parts all around the world. They are designed and built to be the best match for your HITACHI equipment. HITACHI has a global parts distribution network that makes sure you get what you need

as quickly as possible. We have more than 150 dealers worldwide who provide the closest support for your needs. In most cases, your dealer will have the replacement part that you require. If a dealer does not have a certain part, he can order it from four fully-stocked parts depots located across the world. These distribution centres are all con-

nected by an online system that gives them access to shared information on stocks, such as the number and type of available parts. The depots, which in turn are stocked by a parts centre in Japan, minimize delivery time and enable you to get your parts as efficiently and quickly as possible.

#### Service

Our goal is to "keep customer equipment at a maximum performance level". To fulfil this goal, we have set more than 150 dealers all over the world. They have highly trained technicians, and provide a number of support programs. HITACHI provides a unique extended warranty program called HITACHI Extended Life Program, or HELP.

To minimize downtime during troubleshooting, we developed a PDA based diagnostic system called "Dr.ZX". To keep our customers' equipment in top running shape, good service is indispensable. We believe personnel training is the key to providing the best service. If you would like more information regarding parts and/or service, please ask your nearest HITACHI dealer. Not all programs and/or services are available in every market or region.

#### **ZAXIS 520LCR**

ENGINE	
Model	Isuzu AH-6WG1XYSA-01
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	6
Rated power	
ISO 9249,	H/P mode:
Without Fan net	260 kW (349 hp) at 1 800 min <sup>-1</sup> (rpm)
EEC 80/1269,	H/P mode:
Without Fan net	260 kW (349 hp) at 1 800 min <sup>-1</sup> (rpm)
Maximum torque	1 580 Nm (161 kgf·m) at 1 500 min <sup>-1</sup>
Piston displacement	15.681 L
Bore and stroke	147 mm x 154 mm
Batteries	2 x 12 V / 170 Ah

#### **HYDRAULIC SYSTEM**

Work mode selector

General purpose mode / Attachment mode

• Engine speed sensing system

Main pumps2 variable displacement axial piston pumpsMaximum oil flow2 x 360 L/minPilot pump1 gear pumpMaximum oil flow30 L/min

#### **Hydraulic Motors**

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

#### **Relief Valve Settings**

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Implement circuit	31.9 MPa	(325 kgf/cm <sup>2</sup> )
Swing circuit	27.9 MPa	(285 kgf/cm <sup>2</sup> )
Travel circuit	34.3 MPa	(350 kgf/cm <sup>2</sup> )
Pilot circuit	3.9 MPa	(40 kgf/cm <sup>2</sup> )
Power boost	34.3 MPa	(350 kgf/cm <sup>2</sup> )

#### **Hydraulic Cylinders**

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

#### **Dimensions**

	Quantity	Bore	Rod diameter
Boom	2	170 mm	115 mm
Arm	1	190 mm	130 mm
Bucket	1	170 mm	120 mm

#### **Hydraulic Filters**

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

#### **CONTROLS**

Pilot controls. HITACHI's original shockless valve.

	9
Implement levers	2
Travel levers with pedals	2

#### **UPPERSTRUCTURE**

#### **Revolving Frame**

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. 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, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed 9.0 min<sup>-1</sup> (rpm)

#### Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 795 mm high, conforming to ISO\* Standards. (OPG top guard fitted Level II (ISO 10262) compliant cab)

Reinforced glass windows on 4 sides for visibility. Reclining seat with armrests; adjustable with or without control levers.

\* International Standardization Organization

#### **UNDERCARRIAGE**

#### **Tracks**

Tractor-type undercarriage. Welded track frame using selected materials. Side frame bolted to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

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
Track shoes	49
Full length track guard	1

#### **Travel Device**

Each track driven by axial piston motor through reduction gears for counter rotation of the tracks. Sprockets are replaceable.

Parking brake is spring-set/hydraulic-released disc type.

Automatic transmission system: High-Low.

idea mane transcriber by bearing right 20 m				
Travel speeds	High: 0 to 4.0 km/h			
	Low: 0 to 2.9 km/h			
Maximum traction force	415 kN (42 300 kgf)			
Gradeability	35° (70%) continuous			

#### **WEIGHTS AND GROUND PRESSURE**

Equipped with 7.0 m R-boom, 3.4 m R-arm and 1.9 m<sup>3</sup> R-bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	600 mm	52 500 kg	93 kPa (0.95 kg/cm²)

SERVICE REFILL CAPACITIES					
		liters			
Fuel tank	725.0				
Engine coolant	55.0				
Engine oil	57.0				
Swing device (each side)	6.5				
Travel device (each side)	11.0				
Hydraulic system	560.0				
Hydraulic oil tank	330.0				

#### **BACKHOE ATTACHMENTS**

Boom and arms are of all-welded, box-section design. A number of booms and arms are available. Bucket is of all-welded, high-strength steel structure.

The ZAXIS 520LCR is a heavy duty type and can be equipped with a reinforced R-boom or BER-boom and R-arm or BER-arm.

#### **BUCKETS**

Can	Capacity		Width mm				ZAXIS 5	520LCR	
	аспу	VVIGE	1	No of	Weight	6.3 m		7.0 m R-boom	
SAE, PCSA heaped	CECE heaped	Without	With	teeth		BER-	boom	K-Do	oom
Пеарец	Пеарец	side cutters	side cutters			2.5 m	2.9 m	2.9 m	3.4 m
m <sup>3</sup>	m³				BER-arm	BER-arm	BER-arm	R-arm	
*1 1.9	1.7	1 480	1 500	5	2 070	•	•	•	•
*1 2.1	1.8	1 560	1 580	5	2 170	•	•	•	•
*1 2.3	2.0	1 680	1 700	5	2 260	•	•	•	Х
* <sup>1</sup> 2.5	2.2	1 800	1 820	5	2 360	•	•	Х	Х
*2 1.3	1.2	1 170	-	3	2 330	•	•	•	•
One-point rippe	One-point ripper			1	1 260	•	•	•	•

Heavy-duty

\*1 R-bucket

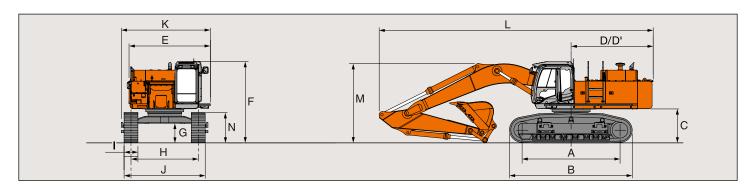
X Cannot be installed

\*2 Ripper bucket

## SPECIFICATIONS / LIFTING CAPACITIES

#### **ZAXIS 520LCR**

#### **DIMENSIONS**



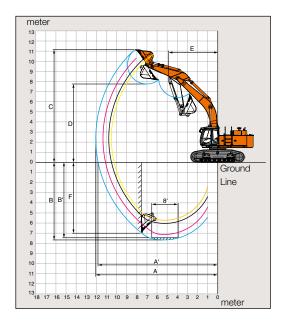
Unit: mm

	ZAXIS 520LCR* <sup>2</sup>
A Distance between tumblers	4 250
B Undercarriage length	5 330
*1 C Counterweight clearance	1 435
D Rear-end swing radius	3 645
D' Rear-end length	3 560
E Overall width of upperstructure	3 530
F Overall height of cab	3 520
*1 G Min. ground clearance	810
H Track gauge	2 920
I Track shoe width	G 600
J Undercarriage width: Extended / Retracted	3 520 / 3 020
K Overall width	3 860
L Overall length	11 890
M Overall height of boom	3 500
N Track height	1 290

<sup>\*1</sup> Excluding track shoe lug G: 600 mm Double grouser shoe

#### **WORKING RANGES**





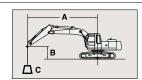
	ZAXIS 520LCR				
Boom length	6.3 m BER-boom 7.0			n R-boom	
Arm length	2.5 m BER-arm	2.9 m BER-arm	2.9 m BER-arm	3.4 m R-arm	
A Max. digging reach	10 460	10 750	11 330	12 060	
A' Max. digging reach (on ground)	10 190	10 490	11 080	11 820	
B Max. digging depth	5 720	6 050	7 130	7 690	
B' Max. digging depth (8' level)	5 540	5 890	6 920	7 550	
C Max. cutting height	10 730	10 870	10 240	11 130	
D Max. dumping height	7 390	7 520	7 170	7 730	
E Min. swing radius	4 090	3 930	5 020	4 840	
F Max. vertical wall	4 180	4 570	4 200	7 030	
Bucket digging force* ISO	287 kN (29 300 kgf)	287 kN (29 300 kgf)	287 kN (29 300 kgf)	288 kN (29 400 kgf)	
Bucket digging force* SAE: PCSA	258 kN (26 300 kgf)	258 kN (26 300 kgf)	258 kN (26 300 kgf)	250 kN (25 500 kgf)	
Arm crowd force* ISO	293 kN (29 900 kgf)	256 kN (26 100 kgf)	256 kN (26 100 kgf)	218 kN (22 200 kgf)	
Arm crowd force* SAE: PCSA	286 kN (29 200 kgf)	249 kN (25 400 kgf)	249 kN (25 400 kgf)	209 kN (21 300 kgf)	
Equipped bucket SAE: PCSA	2.5 m <sup>3</sup>	2.5 m <sup>3</sup>	2.1 m <sup>3</sup>	2.1 m <sup>3</sup>	

Excluding track shoe lug \* At power boost

<sup>\*2</sup> Eguipped with 7.0 m R-boom and 3.4 m R-arm

#### Metric measure

The lifting capacity is defined by the overload alarm device set pressure. When the hydraulic pressure reaches the set pressure, the alarm buzzer sounds. Values in the table are with the overload alarm device switched off and with retracted bucket cylinder.



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

#### **ZAXIS 520LCR (WITHOUT BUCKET)**

Rating	over-front
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Rating over-side or 360 degrees
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Unit: 1 000 kg

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	Load	Load	Load	Load	Load	Load			I				radius						At	max. rea	ch
Conditions	point		) m	4.0	) m	5.0	) m	6.0	) m	8.0	) m	10.	0 m								
	height	Ů		Ů		Ů		Ů		Ů		ů		Ů		meter					
BER-boom 6.3 m	8.0 m							*14.23	*14.23					*12.43	*12.43	6.63					
BER-arm 2.5 m Shoe 600 mm	6.0 m					*16.89	*16.89	*15.15	*15.15					*11.89	10.91	7.89					
0.100	4.0 m					*20.81	20.76	*17.41	15.85	*13.89	10.37			*13.27	9.45	8.50					
	2.0 m					*23.65	19.33	*19.34	14.92	*14.52	10.00			13.10	9.02	8.61					
	0					*23.51	18.87	*19.59	14.48	*14.25	9.81			*13.67	9.45	8.24					
	-2.0 m					*20.70	19.03	*17.49	14.55					*13.51	11.17	7.32					
BER-boom 6.3 m	8.0 m							*13.54	*13.54	*10.50	*10.50			*8.06	*8.06	7.00					
BER-arm 2.9 m Shoe 600 mm	6.0 m					*16.22	*16.22	*14.65	*14.65	*13.67	10.52			*7.75	*7.75	8.20					
	4.0 m					*20.29	*20.29	*17.07	16.15	*14.48	10.13			*8.00	*8.00	8.79					
	2.0 m					*23.59	19.77	*19.27	15.21	14.48	9.90			*8.80	8.70	8.90					
	0			*29.16	27.39	*24.00	19.18	*19.87	14.71					*10.45	9.07	8.54					
	-2.0 m	*30.59	*30.59	*25.88	*25.88	*21.68	19.22	*18.23	14.68					*13.37	10.56	7.66					
R-boom 7.0 m BER-arm 2.9 m	8.0 m													*9.08	*9.08	7.73					
Shoe 600 mm	6.0 m							*11.60	*11.60	*9.38	9.34			*8.88	7.70	8.83					
	4.0 m					*17.49	*17.49	*13.99	*13.99	*10.33	8.94			*8.96	6.66	9.38					
	2.0 m					*19.79	17.50	*15.77	13.33	*11.19	8.51			*9.19	6.34	9.48					
	0			*12.64	*12.64	*19.49	17.16	*16.06	12.88	*11.40	8.24			*9.48	6.63	9.14					
	-2.0 m	*19.67	*19.67	*20.59	*20.59	*17.53	*17.33	*14.79	12.90	*10.38	8.24			*9.70	7.76	8.32					
	-4.0 m			*15.61	*15.61	*13.51	*13.51	*11.35	*11.35					*9.39	*9.39	6.84					
R-boom 7.0 m R-arm 3.4 m	8.0 m									*11.14	*11.14			*7.77	*7.77	8.53					
Shoe 600 mm	6.0 m									*11.65	10.95			*7.60	*7.60	9.54					
	4.0 m					*19.83	*19.83	*16.40	15.95	*12.80	10.48	*8.41	7.47	*7.83	7.41	10.05					
	2.0 m					*23.23	19.30	*18.79	14.92	*13.92	10.00	10.51	7.28	*8.46	7.14	10.14					
	0					*23.74	18.72	*19.62	14.38	14.23	9.68			*9.67	7.34	9.83					
	-2.0 m					*22.13	18.72	*18.71	14.28	*13.77	9.61			*11.52	8.17	9.07					
	-4.0 m			*21.36	*21.36	*18.32	*18.32	*15.65	14.54					*11.23	10.32	7.73					

Notes: 1. Ratings are based on ISO 10567.

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

<sup>3.</sup> The load point is the center-line of the bucket pivot mounting pin on the arm.

<sup>4. \*</sup>Indicates load limited by hydraulic capacity.

<sup>5.</sup> 0 m = Ground.

#### **ZAXIS 670LCR**

ENGINE	
Model	Isuzu AH-6WG1XYSA-02
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	6
Rated power	
ISO 9249,	H/P mode:
Without Fan net	345 kW (463 hp) at 1 800 min <sup>-1</sup> (rpm)
EEC 80/1269,	H/P mode:
Without Fan net	345 kW (463 hp) at 1 800 min <sup>-1</sup> (rpm)
Maximum torque	1 980 Nm (202 kgf·m) at 1 500 min <sup>-1</sup> (rpm)
Piston displacement	15.681 L
Bore and stroke	147 mm x 154 mm
Batteries	2 x 12 V / 170 Ah

#### **HYDRAULIC SYSTEM**

• Work mode selector

General purpose mode / Attachment mode

• Engine speed sensing system

Main pumps2 variable displacement axial piston pumpsMaximum oil flow2 x 456 L/minPilot pump1 gear pumpMaximum oil flow30 L/min

#### **Hydraulic Motors**

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

#### **Relief Valve Settings**

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

#### **Hydraulic Cylinders**

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

#### **Dimensions**

	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

#### **Hydraulic Filters**

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

#### **CONTROLS**

Pilot controls. HITACHI's original shockless valve and quick warm-up system built in the pilot circuit.

, ,	
Implement levers	2
Travel levers with pedals	2

#### **UPPERSTRUCTURE**

#### **Revolving Frame**

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. 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, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed 9.5 min<sup>-1</sup> (rpm)

#### Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 795 mm high, conforming to ISO\* Standards. (OPG top guard fitted Level II (ISO 10262) compliant cab)

Reinforced glass windows on 4 sides for visibility. Reclining seat with armrests; adjustable with or without control levers.

\* International Standardization Organization

#### **UNDERCARRIAGE**

#### **Tracks**

Tractor-type undercarriage. Welded track frame using selected materials. Side frame bolted to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

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
Track shoes	47
Full length track guard	1

#### **Travel Device**

Each track driven by axial piston motor through reduction gears for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

Travel speeds	High: 0 to 4.9 km/h
	Low: 0 to 3.4 km/h

Maximum traction force 460 kN (46 920 kgf)

Gradeability 35° (70%) continuous

#### **WEIGHTS AND GROUND PRESSURE**

#### **ZAXIS 670LCR:**

Equipped with 7.8 m R-boom, 3.6 m R-arm and 2.9 m<sup>3</sup> R-bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm	68 400 kg	103 kPa (1.05 kg/cm²)

#### ZAXIS 670LCR (BER):

Equipped with 6.8 m BER-boom, 2.9 m BER-arm and 3.3 m  $^3$  R-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm	68 200 kg	102 kPa (1.04 kgf/cm²)

#### **BACKHOE ATTACHMENTS**

Boom and arms are of all-welded, box-section design. A number of booms and arms are available. Bucket is of all-welded, high strength steel structure.

The ZAXIS 670LCR is a heavy duty type and can be equipped with a reinforced R-boom or BER-boom and R-arm or BER-arm.

### SERVICE REFILL CAPACITIES

		liters
Fuel tank	900.0	
Engine coolant	57.0	
Engine oil	57.0	
Pump drive	6.7	
Swing device (each side)	10.5	
Travel device (each side)	16.0	
Hydraulic system	680.0	
Hydraulic oil tank	380.0	

#### **BUCKETS**

Can	Capacity Width mm				ZAXIS 670LCR					
Сар	acity	Widtiffiff				6.8 m	7.8 m			
SAE, PCSA	CECE			No of teeth	No of Weight teeth kg	BER-boom	R-boom			
heaped	heaped	Without side cutters	With side cutters	With side cutters			2.9 m	2.9 m	3.6 m	
m³	m³					BER-arm	R-arm			
*1 2.9	2.5	1 680	1 680	5	3 300	X	•			
*1 3.3	2.9	1 790	1 790	5	3 610	•	X			
One-point ripper				1	1 800	•	•			

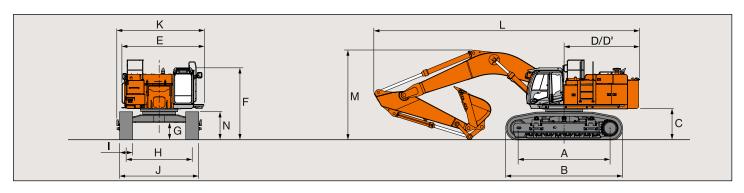
Heavy-dutyX Cannot be installed

\*1 R-bucket

## SPECIFICATIONS / LIFTING CAPACITIES

#### **ZAXIS 670LCR**

#### **DIMENSIONS**



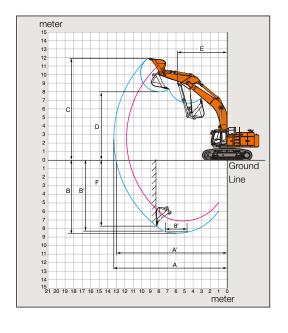
Unit: mm

	ZAXIS 670LCR* <sup>2</sup>
A Distance between tumblers	4 590
B Undercarriage length	5 840
1 C Counterweight clearance	1 530
D Rear-end swing radius	3 850
D' Rear-end length	3 720
E Overall width of upperstructure	4 100
F Overall height of cab	3 590
<sup>1</sup> G Min. ground clearance	860
H Track gauge	3 300
I Track shoe width	G 650
J Undercarriage width	3 950
K Overall width	4 340
L Overall length	13 200
M Overall height of boom	4 460
N Track height	1 390

Excluding track shoe lug G: Double grouser shoe Equipped with 7.8 m R-boom and 3.6 m R-arm

#### **WORKING RANGES**

Unit: mm

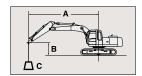


	ZAXIS 670LCR			
Boom length	6.8 m BER-boom	7.8 m R-boom		
Arm length	2.9 m BER-arm	3.6 m R-arm		
A Max. digging reach	11 800	13 280		
A' Max. digging reach (on ground)	11 500	13 030		
B Max. digging depth	7 120	8 560		
B' Max. digging depth (8' level)	6 970	8 420		
C Max. cutting height	11 190	11 940		
D Max. dumping height	7 330	8 020		
E Min. swing radius	5 240	5 780		
F Max. vertical wall	5 280	7 720		
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)		
Equipped bucket	3.3 m <sup>3</sup>	2.9 m <sup>3</sup>		

Excluding track shoe lug \* At power boost

#### Metric measure

The lifting capacity is defined by the overload alarm device set pressure. When the hydraulic pressure reaches the set pressure, the alarm buzzer sounds. Values in the table are with the overload alarm device switched off and with retracted bucket cylinder.



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

#### **ZAXIS 670LCR (WITHOUT BUCKET)**



Rating	over-side	or 360	dearees
- I rating	Over-side	01 000	uegrees

Unit: 1 000 kg

ZAXIS 070EC	, ( <b>, , ,</b> , , , , , ,	1001 B	OOKLI					•								
	Load						Load	radius							max. read	oh
Conditions point	point	3.0	) m	4.0	) m	5.0	) m	6.0	) m	8.0	) m	10.	0 m	Al	max. read	
	height	Ů		ů	<b>-</b>	Ů	<b>-</b>	ů	<b>-</b>	ů		Ů		ů		meter
BER-boom 6.8 m	8.0 m													*12.70	*12.70	7.9
BER-arm 2.9 m Shoe 650 mm	6.0 m							*19.70	*19.70	*17.1	13.80			*12.20	11.30	9.0
Gride 650 mm	4.0 m							*23.70	20.40	18.30	13.10			*12.50	10.00	9.5
	2.0 m							*27.10	18.80	17.60	12.40			13.30	9.50	9.6
	0					*34.10	23.90	26.80	18.10	17.10	12.00			13.90	9.80	9.3
	-2.0 m	*26.80	*26.80	*37.60	35.60	*31.60	24.00	*26.70	18.00	17.10	12.00			15.90	11.20	8.4
	-4.0 m			*29.70	*29.70	*25.30	24.70	*21.30	18.60					*17.20	15.20	6.9
	-6.0 m															
R-boom 7.8 m R-arm 3.6 m	9.0 m													*9.50	*9.50	9.0
Shoe 650 mm	8.0 m													*9.30	*9.30	9.7
	6.0 m									*15.10	13.80	13.10	9.50	*9.30	8.60	10.5
	4.0 m					*28.40	26.10	*22.70	19.90	*17.10	12.90	12.70	9.10	*9.70	7.70	11.0
	2.0 m							*26.20	18.20	*17.30	12.10	12.30	8.70	10.50	7.40	11.1
	0					*21.20	*21.20	26.10	17.40	16.60	11.50	12.00	8.40	10.70	7.50	10.8
	-2.0 m	*16.50	*16.50	*22.00	*22.00	*31.60	23.10	25.90	17.30	16.40	11.30	11.90	8.30	11.70	8.20	10.1
	-4.0 m	*29.10	*29.10	*32.70	*32.70	*27.90	23.50	*24.00	17.50	16.60	11.50			14.30	10.00	8.9
	-6.0 m					*20.70	*20.70	*17.70	*17.70					*14.70	*14.70	6.9

Notes: 1. Ratings are based on ISO 10567.

- 2. Lifting capacity of the ZAXIS Series 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.

#### **ZAXIS 870LCR**

ENGINE	
Model	Isuzu AH-6WG1XYSA-03
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	6
Rated power	
ISO 9249,	H/P mode:
Without Fan net	397 kW (532 hp) at 1 800 min <sup>-1</sup> (rpm)
EEC 80/1269,	H/P mode:
Without Fan net	397 kW (532 hp) at 1 800 min <sup>-1</sup> (rpm)
Maximum torque	2 250 Nm (230 kgf·m) at 1 500 min <sup>-1</sup> (rpm)
Piston displacement	15.681 L
Bore and stroke	147 mm x 154 mm
Batteries	2 x 12 V / 170 Ah

#### **HYDRAULIC SYSTEM**

•Work mode selector

General purpose mode / Attachment mode

•Engine speed sensing system

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 x 528 L/min
Pilot pump	1 gear pump
Maximum oil flow	30 L/min

#### **Hydraulic Motors**

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

#### **Relief Valve Settings**

_		
Implement circuit	31.9 MPa	(325 kgf/cm <sup>2</sup> )
Swing circuit	27.9 MPa	(300 kgf/cm <sup>2</sup> )
Travel circuit	34.3 MPa	(350 kgf/cm <sup>2</sup> )
Pilot circuit	3.9 MPa	(40 kgf/cm <sup>2</sup> )
Power boost	34.3 MPa	(350 kgf/cm <sup>2</sup> )

#### **Hydraulic Cylinders**

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

#### **Dimensions**

	Quantity	Bore	Rod diameter
Boom	2	215 mm	150 mm
Arm	1	225 mm	160 mm
Bucket	1	200 mm	140 mm
Bucket (BE)	1	215 mm	150 mm

#### **Hydraulic Filters**

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

#### **CONTROLS**

Pilot controls. HITACHI's original shockless valve and quick warm-up system built in the pilot circuit.

, ,	
Implement levers	2
Travel levers with pedals	2

#### **UPPERSTRUCTURE**

#### **Revolving Frame**

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. 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, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

	Swing speed	7.3 min <sup>-1</sup>	(rpm)
--	-------------	-----------------------	-------

#### Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 795 mm high, conforming to ISO\* Standards. (OPG top guard fitted Level II (ISO 10262) compliant cab)

Reinforced glass windows on 4 sides for visibility. Reclining seat with armrests; adjustable with or without control levers.

#### **UNDERCARRIAGE**

#### **Tracks**

Tractor-type undercarriage. Welded track frame using selected materials. Side frame bolted to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

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	9
Track shoes	51
Full length track guard	1

#### **Travel Device**

Each track driven by axial piston motor through reduction gears for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

Travel speeds	High: 0 to 4.1 km/h
	Low: 0 to 3.1 km/h

Maximum traction force	560 kN (57 100 kgf)

Gradeability	35° (70%) continuous

<sup>\*</sup> International Standardization Organization

#### **WEIGHTS AND GROUND PRESSURE**

#### ZAXIS 870LCR:

Equipped with 8.4 m R-boom, 3.7 m R-arm and 3.5  $\mathrm{m}^3$  R-bucket (SAE, PCSA heaped).

Shoe type Shoe width		Operating weight	Ground pressure	
Double grouser	650 mm	85 500 kg	116 kPa (1.19 kgf/cm²)	

#### ZAXIS 870LCR (BER):

Equipped with 7.1 m BER-boom, 2.95 m BER-arm and 4.3 m<sup>3</sup> R-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm	85 800 kg	117 kPa (1.19 kgf/cm²)

Equipped with 7.1 m BER-boom, 3.7 m R-arm and 3.7  $\,\mathrm{m}^3$  R-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm	85 500 kg	116 kPa (1.19 kgf/cm²)

#### **BACKHOE ATTACHMENTS**

Boom and arms are of all-welded, box-section design. A number of booms and arms are available. Bucket is of all-welded, high strength steel structure.

The ZAXIS 870LCR is a heavy duty type and can be equipped with a reinforced R-boom or BER-boom and R-arm or BER-arm.

#### DACKLICE ATTACLISAEN

#### **BUCKETS**

Can	acity	Width mm					ZAXIS 870LCR		
Оар	acity	Widt	No of teeth		7.1 m		8.4 m		
SAE, PCSA	CECE	Without side cutters			Weight kg	BER-	boom	R-boom	
heaped	heaped						2.95 m	3.7 m	3.7 m
m <sup>3</sup>	m³					BER-arm	R-arm	R-arm	
* <sup>1</sup> 3.5	3.1	1 870	1 890	5	4 870	×	•	•	
*1 3.7	3.2	1 950	1 970	5	4 970	×	•	×	
*1 4.3	3.8	2 090	2 110	5	5 690	•	X	×	
One-point ripper				1	2 680	•	•	•	

Heavy-dutyX Cannot be installed

\*1 R-bucket

SERVICE REFILL CAPACITIES				
		liters		
Fuel tank	1 120.0			
Engine coolant	116.0			
Engine oil	57.0			
Pump drive	6.2			
Swing device (each side)	15.0			
Travel device (each side)	11.0			

790.0

500.0

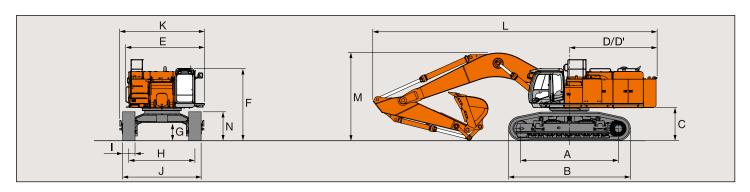
Hydraulic system

Hydraulic oil tank

## SPECIFICATIONS / LIFTING CAPACITIES

#### **ZAXIS 870LCR**

#### **DIMENSIONS**



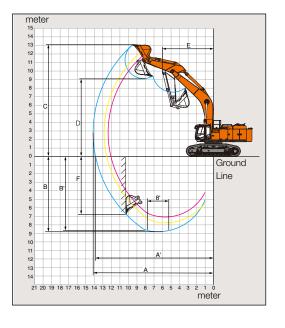
Unit: mm

	ZAXIS 870LCR* <sup>2</sup>
A Distance between tumblers	5 110
B Undercarriage length	6 360
1 C Counterweight clearance	1 680
D Rear-end swing radius	4 600
D' Rear-end length	4 520
E Overall width of upperstructure	4 120
F Overall height of cab	3 780
<sup>1</sup> G Min. ground clearance	890
H Track gauge	3 450
I Track shoe width	G 650
J Undercarriage width	4 100
K Overall width	4 430
L Overall length	14 770
M Overall height of boom	4 570
N Track height	1 500

 $<sup>\</sup>overline{\ }^{1}$  Excluding track shoe lug  $\ \$  G: Double grouser shoe  $\ \ ^{2}$  Equipped with 8.4 m R-boom and 3.7 m R-arm

#### **WORKING RANGES**

Unit: mm

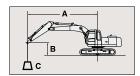


	ZAXIS 870LCR			
Boom length	7.1 m BER-boom		8.4 m R-boom	
Arm length	2.95 m BER-arm	3.7 m R-arm	3.7 m R-arm	
A Max. digging reach	12 340	12 820	14 100	
A' Max. digging reach (on ground)	12 020	12 510	13 820	
B Max. digging depth	7 140	7 820	8 870	
B' Max. digging depth (8' level)	7 000	7 690	8 740	
C Max. cutting height	12 010	12 130	13 000	
D Max. dumping height	8 130	8 180	9 080	
E Min. swing radius	5 210	5 090	5 950	
F Max. vertical wall	4 100	6 090	6 840	
Bucket digging force* ISO	472 kN (48 200 kgf)	402 kN (41 000 kgf)	402 kN (41 000 kgf)	
Bucket digging force* SAE: PCSA	411 kN (41 900 kgf)	359 kN (36 600 kgf)	359 kN (36 600 kgf)	
Arm crowd force* ISO	394 kN (40 200 kgf)	324 kN (33 100 kgf)	324 kN (33 100 kgf)	
Arm crowd force* SAE: PCSA	378 kN (38 600 kgf)	316 kN (32 200 kgf)	316 kN (32 200 kgf)	
Equipped bucket SAE: PCSA	4.3 m <sup>3</sup>	3.7 m <sup>3</sup>	3.5 m <sup>3</sup>	

Excluding track shoe lug \* At power boost

#### Metric measure

The lifting capacity is defined by the overload alarm device set pressure. When the hydraulic pressure reaches the set pressure, the alarm buzzer sounds. Values in the table are with the overload alarm device switched off and with retracted bucket cylinder.



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

#### **ZAXIS 870LCR (WITHOUT BUCKET)**



( <del>-</del>			
Rating	over-side	or 360	degrees

Unit: 1 000 kg

ZAXIS 8/ULC	K (WIII	HOULB	UCKEI)					U	ig over iroi	11.	••••	ating over	side of ood	acgicos	Offic	
	Load							radius						At	max. rea	ch
Conditions	point height		) m		) m		) m		) m		) m		0 m			
	110.9110	Ů		Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>⊕</b>	Ů	<b>P</b>	Ů	<b>-</b>	Ů	<b>-</b>	meter
BER-boom 7.1 m	9.0 m													*17.60	*17.60	7.8
BER-arm 2.95 m	8.0 m									*21.30	*21.30			*16.90	*16.90	8.6
Shoe 650 mm	6.0 m					*31.10	*31.10	*26.90	*26.90	*22.30	22.00			*16.40	*16.40	9.5
	4.0 m							*32.40	32.10	*24.50	21.00	*17.10	14.90	*16.80	14.80	10.0
	2.0 m							*36.30	30.10	*26.50	19.90	*20.00	14.50	*18.00	14.30	10.1
	0					*36.00	*36.00	*36.90	29.10	*27.00	19.30			*20.60	14.80	9.7
	-2.0 m	*28.70	*28.70	*40.20	*40.20	*40.20	38.70	*34.30	28.90	*25.20	19.10			*21.50	16.70	8.9
	-4.0 m			*36.80	*36.80	*32.00	*32.00	*27.40	*27.40					*20.50	*20.50	7.4
BER-boom 7.1 m	9.0 m									*14.90	*14.90			*11.20	*11.20	8.5
R-arm 3.7 m Shoe 650 mm	8.0 m									*17.60	*17.60			*10.90	*10.90	9.2
Silve 630 min	6.0 m									*21.00	*21.00	*12.10	*12.10	*10.80	*10.80	10.1
	4.0 m					*37.20	*37.20	*30.50	*30.50	*23.50	21.50	*17.80	15.30	*11.20	*11.20	10.6
	2.0 m					*42.70	40.80	*35.40	31.00	*25.90	20.40	*21.10	14.80	*12.20	*12.20	10.6
	0					*42.70	39.30	*37.30	29.70	*27.20	19.60	*19.70	14.40	*14.10	13.80	10.3
	-2.0 m					*43.00	39.00	*36.00	29.20	*26.40	19.30			*17.80	15.30	9.5
	-4.0 m			*43.30	*43.30	*36.50	*36.50	*31.00	29.40	*21.90	19.50			*21.30	19.10	8.1
	-5.0 m			*36.40	*36.40	*31.00	*31.00	*26.20	*26.20					*20.80	*20.80	7.1
R-boom 8.4 m R-arm 3.7 m	10.0 m													*12.50	*12.50	9.4
Shoe 650 mm	8.0 m									*17.30	*17.30	*16.10	15.60	*12.00	*12.00	10.7
	6.0 m					*30.10	*30.10	*24.90	*24.90	*19.60	*19.60	*17.00	15.20	*12.10	12.10	11.4
	4.0 m							*31.10	30.40	*22.40	20.20	*18.40	14.50	*12.70	11.20	11.8
	2.0 m							*29.40	28.40	*24.70	19.00	*19.60	13.90	*13.80	10.80	11.9
	0									*25.90	18.30	*20.30	13.50	*15.70	11.00	11.6
	-2.0 m							*34.20	27.60	*25.60	18.10	*19.90	13.40	*17.70	12.00	10.9
	-4.0 m							*30.70	28.00	*23.40	18.30			*18.00	14.10	9.7
	-6.0 m					*27.50	*27.50	*24.10	*24.10					*17.50	*17.50	7.9

Notes: 1. Ratings are based on ISO 10567.

- 2. Lifting capacity of the ZAXIS Series 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.

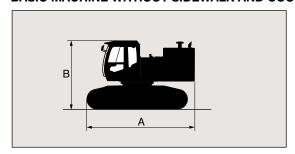
  4. \*Indicates load limited by hydraulic capacity.

- 5. 0 m = Ground.

#### **ZAXIS 520LCR**

#### **TRANSPORTATION**

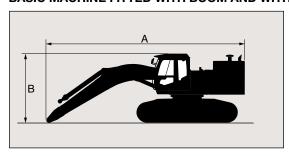
#### BASIC MACHINE WITHOUT SIDEWALK AND COUNTERWEIGHT



Shoe width	Shoe type	Overall width*	Weight	A Overall length	B Overall height
600 mm	Double grouser	3 060 mm	32 100 kg	5 620 mm	3 520 mm

Note: Undercarriage retracted

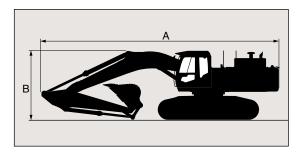
#### BASIC MACHINE FITTED WITH BOOM AND WITHOUT SIDEWALK AND COUNTERWEIGHT



Boom length	Shoe width	Shoe type	Overall width*	Weight	A Overall length	B Overall height
6.3 m BER	600 mm	Double grouser	3 060 mm	37 400 kg	9 060 mm	3 520 mm
7.0 m R	600 mm	Double grouser	3 060 mm	37 300 kg	9 850 mm	3 520 mm

Note: Undercarriage retracted \* Equipped with H-front

#### **BASIC MACHINE WITH FRONT AND SIDEWALK**

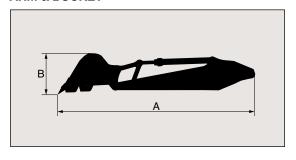


Boom length	6.3 m BER				
Arm length	2.5 m BER	2.9 m BER			
А	11 400 mm	11 270 mm			
В	4 100 mm	3 980 mm			

Boom length	7.0 m R					
Arm length	2.9 m BER 3.4 m R					
A	11 980 mm	11 890 mm				
В	3 500 mm	3 500 mm				

Note: Undercarriage retracted

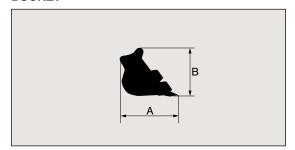
#### **ARM & BUCKET**



Arm	Bucket SAE, PCSA heaped	Weight	А	В	Overall width
2.5 m BER	2.5 m <sup>3</sup>	5 590 kg	5 650 mm	1 470 mm	1 820 mm
2.9 m BER	2.3 m <sup>3</sup>	4 770 kg	6 030 mm	1 340 mm	1 700 mm
3.4 m R	1.9 m <sup>3</sup>	4 790 kg	6 370 mm	1 470 mm	1 500 mm

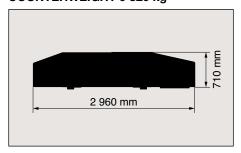
#### **TRANSPORTATION**

#### **BUCKET**

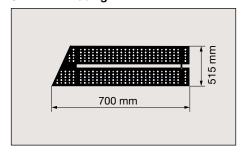


Bud	cket					
SAE, PCSA heaped	CECE heaped	А	В	Width	Weight	
1.9 m <sup>3</sup>	1.7 m <sup>3</sup>	2 030 mm	1 480 mm	1 500 mm	2 070 kg	
2.1 m <sup>3</sup>	1.8 m <sup>3</sup>	1 950 mm	1 650 mm	1 580 mm	2 170 kg	
2.3 m <sup>3</sup>	2.0 m <sup>3</sup>	1 950 mm	1 650 mm	1 700 mm	2 260 kg	
2.5 m <sup>3</sup>	2.2 m <sup>3</sup>	1 950 mm	1 650 mm	1 820 mm	2 360 kg	

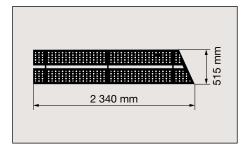
#### **COUNTERWEIGHT 9 820 kg**



#### SIDEWALK 30 kg



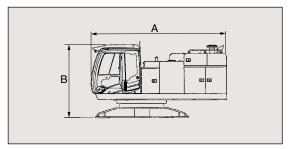
#### SIDEWALK 44 kg



#### **ZAXIS 670LCR / 870LCR**

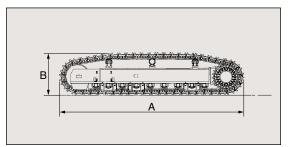
#### **TRANSPORTATION**

#### **UPPERSTRUCTURE**



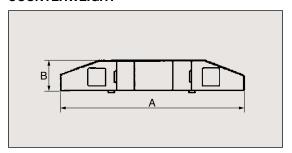
	А	В	Overall width	Weight
ZAXIS 670LCR	5 060 mm	2 740 mm	3 470 mm	20 100 kg
ZAXIS 870LCR	6 040 mm	2 960 mm	3 500 mm	27 500 kg

#### SIDE FRAME



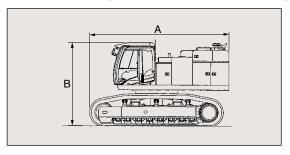
	Shoe width	А	В	Overall width	Weight
ZAXIS 670LCR	650 mm	5 840 mm	1 450 mm	1 190 mm	10 800 kg
ZAXIS 870LCR	650 mm	6 360 mm	1 500 mm	1 330 mm	12 700 kg

#### **COUNTERWEIGHT**



	А	В	Overall height	Weight
ZAXIS 670LCR	3 360 mm	590 mm	1 550 mm	11 100 kg
ZAXIS 870LCR	3 360 mm	720 mm	1 620 mm	13 300 kg

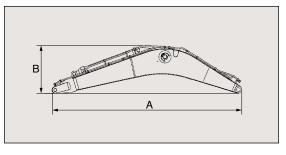
#### BASIC MACHINE (WITHOUT COUNTERWEIGHT)



	Shoe width	А	В	Overall width	Weight
ZAXIS 670LCR	650 mm	6 100 mm	3 640 mm	3 480 mm	41 400 kg
ZAXIS 870LCR	650 mm	7 080 mm	3 790 mm	3 600 mm	52 700 kg

Notes: Undercarriage retracted

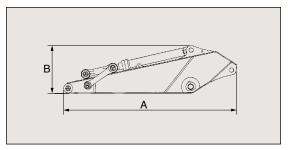
#### воом



	Boom	А	В	Overall width	Weight
ZAXIS 670LCR	6.8 m BER	7 140 mm	2 510 mm	1 390 mm	6 260 kg
ZAXIS 07ULGN	7.8 m R	8 130 mm	2 330 mm	1 390 mm	6 760 kg
ZAXIS 870LCR	7.1 m BER	7 490 mm	2 700 mm	1 450 mm	7 680 kg
	8.4 m R	8 780 mm	2 500 mm	1 450 mm	8 270 kg

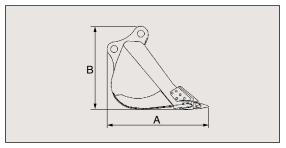
#### **TRANSPORTATION**

#### ARM



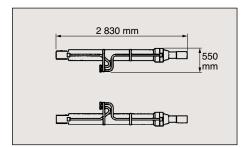
	Arm	А	В	Overall width	Weight
ZAXIS 670LCR	2.9 m BER	4 370 mm	1 690 mm	800 mm	3 950 kg
ZAXIS 070LCh	3.6 m R	5 110 mm	1 440 mm	800 mm	3 900 kg
ZAXIS 870LCR	2.95 m BER	4 460 mm	1 660 mm	850 mm	4 760 kg
	3.7 m R	5 290 mm	1 420 mm	820 mm	4 610 kg

#### **BUCKET**

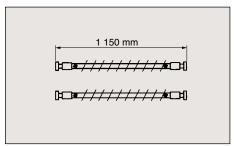


Capacity						
	SAE, PCSA heaped	CECE heaped	А	В	Overall width	Weight
ZAXIS 670LCR	2.9 m <sup>3</sup>	2.5 m <sup>3</sup>	2 290 mm	1 770 mm	1 680 mm	3 300 kg
	3.3 m <sup>3</sup>	2.9 m <sup>3</sup>	2 250 mm	1 890 mm	1 790 mm	3 610 kg
ZAXIS 870LCR	3.5 m <sup>3</sup>	3.1 m <sup>3</sup>	2 240 mm	1 920 mm	1 890 mm	4 870 kg
	3.7 m <sup>3</sup>	3.2 m <sup>3</sup>	2 240 mm	1 920 mm	1 970 mm	4 970 kg
	4.3 m <sup>3</sup>	3.8 m <sup>3</sup>	2 310 mm	2 000 mm	2 110 mm	5 690 kg

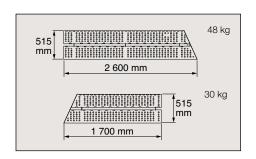
#### ZAXIS 670LCR BOOM CYLINDERS 550 kg x 2



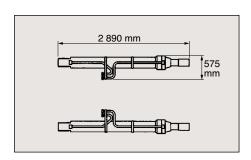
## HOSE OF BOOM CYLINDERS 7 kg x 2 / 10 kg x 2



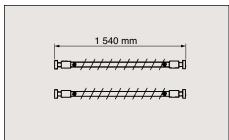
#### **LEFT SIDEWALK**



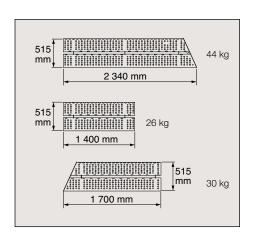
#### ZAXIS 870LCR BOOM CYLINDERS 850 kg x 2



## HOSE OF BOOM CYLINDERS 13 kg x 2 / 9 kg x 2



#### LEFT SIDEWALK



#### STANDARD EQUIPMENT

Standard equipment may vary by country, so please consult your HITACHI dealer for details.

#### **ENGINE**

- H/P mode control
- P mode control
- E mode control
- 50 A alternator
- Dry-type air double filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system

#### **HYDRAULIC SYSTEM**

- Work mode selector
- Engine speed sensing system
- E-P control system
- Power boost
- Auto power lift
- Boom mode selector system
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Suction filter
   Full-flow filter
- Pilot filter
- Drain filter
- Quick warm-up system for pilot circuit

#### CAB

- H/R cab
- OPG top guard fitted Level II (ISO10262) compliant cab
- All-weather sound suppressed steel cab

- Laminated straight and fixed glass front window
- Left side window can be opened
- 6 fluid-filled elastic mounts
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining suspension seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto-idle selector
- Retractable Seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Auto control air conditioner
- Engine shut-off switch
- Transparent roof with slide curtain

#### MONITOR SYSTEM

- Display of meters: water temperature, hour, fuel rate, clock
- Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc
- 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

#### **LIGHTS**

- 3 working lights
- 2 cab lights

#### **UPPERSTRUCTURE**

- 4.5 mm thickness Undercover
- Fuel level float
- Rear view camera
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror (right & left side)
- Swing parking brake
- Electric fuel refilling pump with auto-stop
- Auto-grease lubricator (Boom and arm Joint pin)

#### ZX 520LCR<sub>-3</sub>:

- Ladder
- 9 820 kg counterweight

#### ZX 670LCR-3:

- Ladder
- 11 100 kg counterweight

#### ZX 870LCR<sub>-3</sub>:

• 13 300 kg counterweight

#### **UNDERCARRIAGE**

- Travel parking brake
- Reinforced travel motor covers
- Reinforced Idler part
- Hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals
- Full track guard

#### ZX 520LCR<sub>-3</sub>:

• 600 mm double grouser shoes

#### ZX 670LCR<sub>-3</sub> / ZX 870LCR<sub>-3</sub>:

• 650 mm double grouser shoes

#### FRONT ATTACHMENTS

- Boom cylinder hose protectors
- Arm cylinder hose protectors
- Bucket cylinder hose protectors
- Flanged pin
- Reinforced link A
- Reinforced link B
- Centralized lubrication system
- Dirt seal on all bucket pins
- Damage prevention plate and square bars

#### ZX 520LCR<sub>-3</sub>:

- 7.0 m R-boom and 3.4 m R-arm
- 1.9 m³ (SAE, PCSA heaped) Rbucket (with dual type side shrouds)

#### ZX 670LCR-3:

- 7.8 m R-boom and 3.6 m R-arm
- 2.9 m³ (SAE, PCSA heaped) Rbucket (with dual type side shrouds)

#### ZX 870LCR<sub>-3</sub>:

- 8.4 m R-boom and 3.7 m R-arm
- 3.5 m³ (SAE, PCSA heaped) R-bucket (with dual type side shrouds)

#### **MISCELLANEOUS**

- Standard tool kit
- Lockable machine covers
- Lockable machine covers
   Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- and hand
- Sidewalk
- Travel direction mark on track frameOnboard information controller
- Theft deterrent system

#### **OPTIONAL EQUIPMENT**

Optional equipment may vary by country, so please consult your HITACHI dealer for details.

- Hose rupture valves
- Swing motion alarm device with lamps
- Travel motion alarm device
- Biodegradable oil
- Extinguisher
- Pre cleaner
- Cab front step

- Electric grease gun with hose-reel
- Air suspension seat (With seat heater)
- Built-in seat heater
- Track under cover
- Right side walk
- Rain guard for cab
- Attachment basic piping
- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Sun visor
- 12 V power source
- Additional fuse box
- Overload alarm
- Front glass lower guard
- Front glass upper guard

#### ZX 520LCR<sub>-3</sub>:

- 6.3 m BER-boom
- 2.5 m BER-arm
- 2.9 m BER-arm

#### ZX 670LCR<sub>-3</sub>:

- 6.8 m BER-boom
- 2.9 m BER-arm

#### ZX 870LCR<sub>-3</sub>:

- 7.1 m BER-boom
- 2.95 m BER-arm



These specifications are s	subject to (	cnange i	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 colour and features. Before use, read and understand the Operator's Manual for proper operation.

**HITACHI Construction Machinery** 

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