HITACHI

Reliable Solutions

ZAXIS490



HYDRAULIC EXCAVATOR

Model code: ZX490LC-7GEngine rated power: 296 kW (397HP)Operating weight: 47 900 kgBucket capacity: 3.20 m³ - 3.40 m³



GET MORE FROM YOUR MACHINE

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

We have made cost reduction for our customers our top priority and, in doing so, have achieved reduced fuel consumption. The cab has been redesigned to improve the operator's working environment and controllability, with production also expected to improve. An engine that already has a proven track record of high reliability has been adopted, and we have placed further work in it to make it even more robust.

INSIDE





MORE PRODUCTION LOWER FUEL CONSUMPTION 4-5





10-11 SMOOTH





8-9 | HIGH DURABILITY AND RELIABILITY

MORE PRODUCTION Lower fuel consumption

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



HIOS-V Hydraulic system

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

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

Reduced oil pressure loss

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

 \checkmark Contributing to low fuel consumption operation

High power engine

Rated power has been increased from the conventional ZX470-5G engine contributing to greater work volume.

✓ Increased workload

Rated output	ZX470-5G	ZX490-7G
(ISO 14396:2002)	235kw	296 kW

High efficiency operation support system

ECO gauge

The current fuel consumption is indicated by segment display, prompting the operator to better fuel economy. The lower the fuel consumption, the higher the segment. Easy to be removed and cleaned

ECO guidance

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

✓ Prompts operator for better economy







BETTER **OPERABILITY**

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



Operation is easy with ergonomically designed controls and switches.



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



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





AERIAL ANGLE 270-degree bird's eye-view camera system is available.

HGH DURABILITY AND RELIABILITY

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

H Boom

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



THE CONSTRUCT

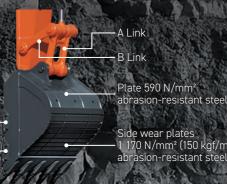
H Arm

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



Rock bucket (Optional)

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



Undercarriage (ZX490H-7G, ZX490LCH-7G only)

Full track guard Protects the lower roller and lin boulders and extending the unit's Equipped with an Expansion tank Improving the reliability of the engine cooling performance



H-front attachment

An engine with improved reliability

has already been adopted previously In adopting it for the ZX-7G, we have put in our efforts to further increase durability and to BOOST your uptime. EGR (Exhaust Gar Recirculation) is removed from the

low-quality fuel.



Laminated straight glass front window

14141

The engine is a highly reliable model that engine, increasing its durability for using



H Cab (ZX490H-7G, ZX490LCH-7G only)



A reinforced cab for H specification machines with a reinforced windshield and a FOPS* guard that protects the cab from falling objects. The front has a laminated straight glass front window that shuts out dust. The cab front guard (optional), also complies with the ISO standard OPG** *FOPS: Falling-Object Protective Structure **0PG: Operator Protective Guards

Reinforced undercover (ZX490H-7G, ZX490LCH-7G only

SMOOTH MAINTENANCE

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



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



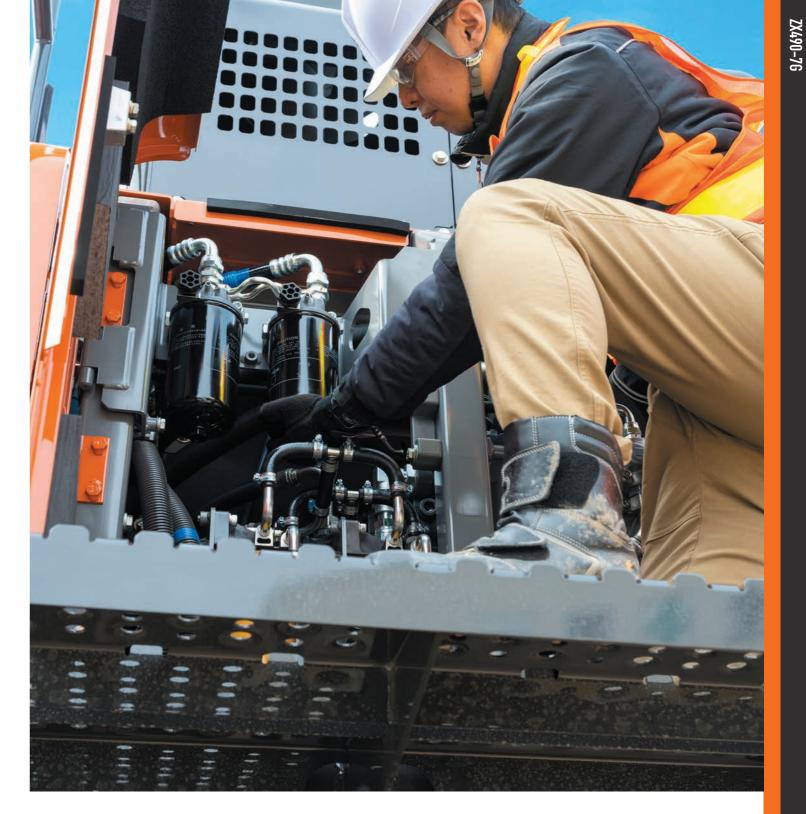
Dust-proof net on right side cover✓ Provided on the cover, in front of radiator core
✓ Easy cleaning with compressed air



Simplified engine oil drainage
 ✓ Drain work can be done more easily by attaching a dedicated nozzle hose.

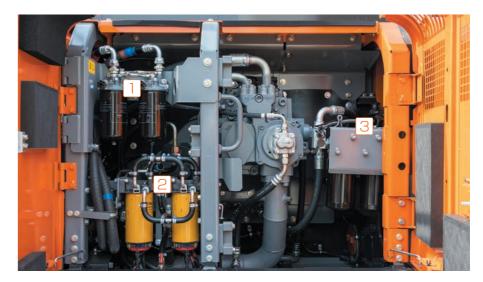


Side walk ✓ Easy to move from cab to pump room or platform



Easy access to filters Filter locations are concentrated in the pump room

 Fuel main filter
 Fuel pre-filter with water separator
 Engine oil filter



SPECIFICATIONS

ENGINE	
Model	Isuzu 6WG1
Туре	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 14396 : 2002 gross	296 kW (397 HP) at 1 800 min ⁻¹ (rpm)
ISO 9249 : 2007 net	295 kW (396 HP) at 1 800 min ⁻¹ (rpm)
Maximum torque	1 932 Nm (197 kgfm) at 1 400 min ⁻¹ (rpm)
Piston displacement	15.681 L
Bore and stroke	147 mm x 154 mm
Batteries	2 x 12 V

HYDRAULIC	HYDRAULIC SYSTEM								
Hydraulic Purr	ips								
Main pumps		2 varia	able displacement a	kial piston pumps					
Maximum oil flov	V	2 x 38	5 L/min						
Pilot pump		1 gea	rpump						
Maximum oil flov	/	30 L/r	nin						
Hydraulic Mot	ors								
Travel		2 varia	able displacement a	kial piston motors					
Swing		2 axial piston motor							
Relief Valve Se	ettings								
Implement circui	t	31.9 MPa (325 kgf/cm ²)							
Swing circuit		28.4 MPa (290 kgf/cm ²)							
Travel circuit		35.3 MPa (360 kgf/cm ²)							
Pilot circuit		3.9 MPa (40 kgf/cm ²)							
Power boost		35.3 MPa (360 kgf/cm ²)							
Hydraulic Cylii	nders								
	Quar	ntity	Bore	Rod diameter					
Boom	2		170 mm	115 mm					
Arm	1		190 mm	130 mm					
Bucket	1		170 mm 120 mm						

	UPPERSTRUCTURE									
	Revolving Frame									
	D-section frame for resistance to deformation.									
	Swing Device									
	Axial piston motor with planetary reduction gear is bathed in oil. circle is single-row. Swing parking brake is spring-set/ hydraulicreleased disc type.									
Swing speed 9.6 min ⁻¹ (rpm)										
Swing torque 148 kNm (15 100 kgfm)										

BUCKET AND ARM DI ar is bathed in oil. Swing ng-set/ Boom length Arm length

	kN	
Bucket digging force* ISO 6015 : 2006	285	
Arm crowd force* ISO 6015 : 2006	294	

* At power boost

Fracks							
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 2							
Lower rollers 9 : ZX490LC-7G							
Track shoes 53 : ZX490LC-7G							
Track guards 2 : ZX490LC-7G							
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 appeda	High : 0 to 5.6 km/h						
Travel speeds	Low : 0 to 3.8 km/h						

UNDERCARRIAGE

Travel speeds Maximum traction force	Hign : 0 to 5.6 km/n
	Low : 0 to 3.8 km/h
	329 kN (33 600 kgf)
Gradeability	70 % (35 degree) continuous

SERVICE REFILL CAPACIT	IES
Fuel tank	675.0 L
Engine coolant	75.0 L
Engine oil	52.0 L
Swing device (each)	6.5 L
Travel device (each side)	11.0 L
Hydraulic system	510.0 L
Hydraulic oil tank	290.0 L

WEIGHTS AND GROUND PRESSURE

ZX490LC-7G

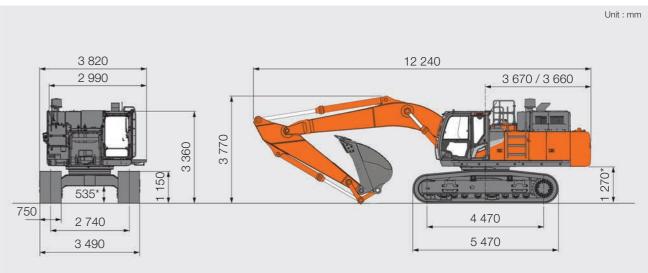
Equipped with 7.00 m H boom, 2.50 m BE Arm and 3.20 m 3 Bucket (ISO 7451 : 2007 heaped)

Shoe grouser	Shoe width	Operating weight	Ground pressure			
type	mm	kg	kPa	kgf/cm ²		
Triple grouser	750	47 900	65	0.66		

BUCKET AND ARM DIGGING FORCE

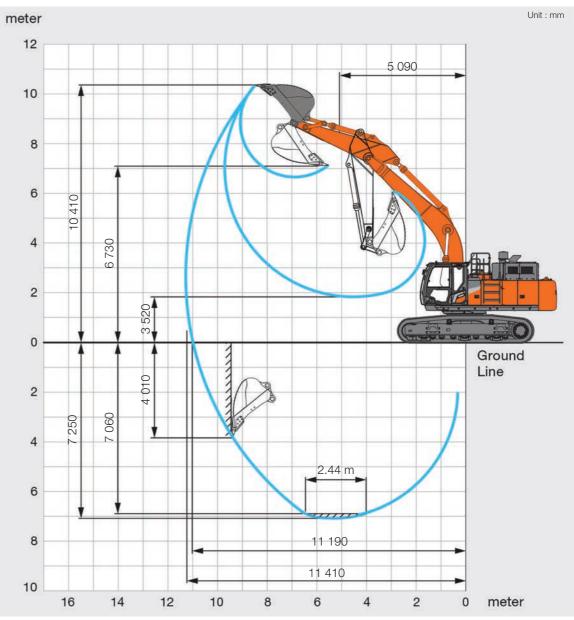
		0	1	1	
		2 -			010
7.0	m H	_	0	8	
2.5 r	n BE	4	7 250	7 060	
	kgf				
	29 100				
	30 000	6 -			

DIMENSIONS



* Excluding track shoe lug

WORKING RANGES



Excluding track shoe lug

SPECIFICATIONS

BACKHOE ATTACHMENTS

	Capacity (m ³)	Without side With side No. of				Boom 7.1 m H Arm 2.5 m BE	
Bucket	ISO 7451 : 2007 heaped			No. of teeth	Weight (kg)		
Rock Bucket	3.0	1 760	1 854	5	2 810	0	
	3.2	1 760	1 900	5	2 510	O	
GP Bucket	3.4 1 760		1 900	5	2 730	0	
Applicable shoe type						750 mm triple grouser	

 $\,\odot\,$ Suitable for material with density of 2 000 kg/m^3 or less

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

MACHINE CAPACITIES

Notes: 1. Ratings are based on ISO 10567 : 2007.

- 2. Machine capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 - 4. *Indicates load limited by hydraulic capacity.

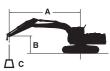
5. 0 m = Ground.

For machine capacities, subtract installed attachment and quick hitch weight from machine capacities. To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from the table and deduct weight of installed attachment and quick hitch.

Optional feature may affect machine performance.

7X/1001 C-70

ZX490LC-7G 🖁 Rating over-front 💭 Rating over-									r-side or 36	0 degrees	Unit : kg			
	Load Load radius													
Conditions	point height	3.0) m	4.5	i m	6.0) m	7.5	5 m	9.0	m		t max. reac	
	m	Ů	∷ ≓∘	Ů	₽	Ů	₽	Ů	ü =0	Ů	₽	ů	; =0	meter
Boom 7.0 m H Arm 2.5 m BE	7.5													
Counterweight	6.0					14 836	14 479	12 975	10 203			12 335	8 336	8.4
9 080 kg Shoe 750 mm	4.5					16 700	13 550	13 818	9 774			12 280	7 369	8.9
	3.0					18 519	12 643	14 741	9 306	12 249	7 145	11 773	6 871	9.2
	1.5					19 567	12 036	15 396	8 930	12 038	6 955	11 603	6714	9.2
	0 (Ground)					19 589	11 772	15 506	8 714			11 979	6 886	8.9
	-1.5			23 244	18 182	18 632	11 764	14 840	8 683			12 752	7 471	8.4
	-3.0	22 839	22 839	20 350	18 519	16 532	11 976	12 824	8 888			12 594	8 771	7.5
	-4.5			15 548	15 548	12 305	12 305					11 600	11 600	6.2



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

EQUIPMENT

ENGINE	ZX490LC-7G
Alternator 60 A	•
Auto idle system	•
Auto shut-down control	•
Cartridge-type engine oil filter	•
Cartridge-type fuel main filter	•
Cartridge-type fuel pre-filter with water separator	•
ConSite OIL (sensor) *	•
Dry-type air filter with evacuator valve (with air filter restriction indicator)	•
Dust-proof net	•
ECO/PWR/HP mode control	•
Electrical fuel feed pump	•
Engine oil drain coupler	•
Expansion tank	•
Fan guard	•
Isolation-mounted engine	•
Pre-cleaner	0
Radiator, oil cooler and intercooler	•
Reversible fan	0

HYDRAULIC SYSTEM	ZX490LC-7G
Accessories for breaker	0
Accessories for breaker & crusher	0
Accessories for 2 speed selector	0
Auto power lift	•
Boom mode selector system	•
ConSite OIL (sensor) *	•
Control valve with main relief valve	•
High mesh full flow filter	•
Drain filter	•
Engine speed sensing system	•
Extra port for control valve	•
Hose rupture valve for arm	0
Hose rupture valve for boom	0
Pilot filter	•
Power boost	•
Shockless valve in pilot circuit	•
Suction filter	•
Two extra port for control valve	•
Work mode selector	•

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САВ	ZX490LC-7G
All-weather sound suppressed steel cab	•
Auto control air conditioner	•
Bluetooth® integrated radio	•
Console height adjustment	•
CRES VII (center pillar reinforced structure) cab	•
Drink holder with hot and cool function	•
Electric double horn	•
Engine shut-off switch	•
Evacuation hammer	٠
Fire extinguisher bracket	0
Floor mat	٠
Footrest	٠
Front window washer (1 point)	•
Glove compartment	٠
Hands-free calling device	0
Hot and cool box	•
Intermittent windshield wipers	٠
Key cylinder light	•
Laminated round glass front window	٠
Laminated straight glass front window	-
LED room light	٠
Magazine rack	٠
OPG front guard Level II (ISO10262 : 1998) compliant	-
OPG top guard Level II (ISO10262 : 1998) compliant	-
Pilot shut-off lever	٠
Power outlet 12V	0
Power outlet 24V	٠
Rain guard (without OPG front guard)	0
Rear tray	٠
Retractable seat belt	٠
ROPS (ISO12117-2 : 2008) compliant cab	•
Rubber radio antenna	٠
Seat : air suspension seat with heater	0
Seat : mechanical suspension seat	٠
Seat adjustment part :	٠
backrest, armrest, height and angle, slide forward / back Seat belt reminder	
Short wrist control levers	•
Smartphone holder	•
	•
Sunscreen roller type (multi-use front or side and rear window)	0
Transparent roof with slide curtain	•
USB power supply	0
Windows on leftside can be opened	•
2 speakers	•
6 fluid-filled elastic mounts	•
8 inch monitor	•

•: Standard equipment O: Optional equipment -: Not applicable

	MONITOR SYSTEM	ZX490LC-7G
	Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc	•
	Alarm buzzers: overheat, engine oil pressure, overload, trouble, etc	٠
	Display of meters: water temperature, hour, fuel rate, clock, etc	•
	Other displays: work mode, auto-idle, glow, rear view monitor, operating conditions, etc	٠
	35 languages selection	•
	LIGHTS	ZX490LC-7G
	Additional boom LED light with cover	0
	Additional ask workfront OLED lights	

Additional cab roof front 2 LED lights	0
Additional cab roof front 4 LED lights	0
Additional cab roof rear 1 LED light	0
LED lights for camera (side and rear view camera)	0
Rotating lamp	0
1 working LED light	•

UPPER STRUCTURE	ZX490LC-7G
AERIAL ANGLE (side and rear view camera)	•
Auto-grease lubricator (without bucket and link pins)	•
Batteries	•
Body top handrail	•
Counterweight 9 080 kg	•
Electric fuel refilling pump with auto stop and filter	0
Electrical grease pump with hose-reel	0
Fuel level float	•
Hydraulic oil level gauge	•
Ladder	0
Lockable fuel refilling cap	•
Lockable machine covers	•
Lockable tool box	•
Platform handrail	•
Right side and rear view camera	•
Sidewalk (cab side)	•
Skid-resistant plates and handrails	•
Swing parking brake	•
Undercover	•
Utility space	•
2 way disconnect switch	•

Cons Globa Onbo Stand Theft

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Standard and optional equipment may vary by country, so please consult authorized dealer for details. * Engine oil and hydraulic oil monitoring sensor. ** Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.

 Standard equipment 	O : Optional equipment	- : Not applicable
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UNDERCARRIAGE	ZX490LC-7G
Bolt-on sprocket	•
Full track guard	-
Idler	•
Lower rollers (single flange)	•
Lower rollers (double flange)	-
Reinforced Idler	-
Reinforced track links with pin seals	•
Shoe: 600 mm double grouser	0
Shoe: 600 mm triple grouser	0
Shoe: 750 mm triple grouser	•
Track undercover	0
Travel direction mark on track frame	•
Travel motor covers	•
Travel parking brake	•
Upper rollers	•
2 track guards (each side) and hydraulic track adjuster	•
4 tie down hooks	•

FRONT ATTACHMENTS	ZX490LC-7G
Arm 2.5 m BE	•
Boom 7.0 m H	•
Bucket 3.0 m ³ Rock (ISO heaped)	0
Bucket 3.2 m ³ (ISO heaped)	0
Bucket 3.4 m ³ (ISO heaped)	•
Centralized lubrication system	•
Damage prevention plate and square bars	•
Dirt seal on all bucket pins	•
Flanged pin	•
Reinforced welded link A	-
Reinforced link B	-

ATTACHMENTS	ZX490LC-7G
Accessories for 2 speed selector	0
Breaker and crusher piping	0
Pilot accumulator	•

ISCELLANEOUS	ZX490LC-7G
nSite	•
bal e-Service	•
board information controller	•
ndard tool kit	•
oft prevention system**	0

MEMO

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

Hitachi Construction Machinery Co., Ltd. www.hitachicm.com

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