

HITACHI

CONSTRUCTION HYDRAULIC EXCAVATOR ZX490LC-7H

Reliable Solutions



Hitachi Construction Machinery Group

LANDCROS

Japanese Excellence—Reliable Solutions

Gross Power : 389 HP (290 kW)
Model Code : ZX490LC-7H

ZAXIS490

SPECIFICATIONS

ZX490LC-7H

ENGINE	
Model	Isuzu 6WG1
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC + SCR system
No. of cylinders	6
Rated power	
ISO 14396: 2002 gross	389 HP (290 kW) at 1,800 min ⁻¹
ISO 9249: 2007 net	388 HP (289 kW) at 1,800 min ⁻¹
Maximum torque	1,431 lbf (1,940 Nm) at 1,350 min ⁻¹
Piston displacement	956.917 cu .in. (15.681 L)
Bore and stroke	5.8" x 6.1" (147 mm x 154 mm)
Batteries	2 x 12 V / 147 Ah

HYDRAULIC SYSTEM	
Hydraulic Pumps	
Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 x 102 gal/min (385 L/min)
Pilot pump	1 gear pump
Maximum oil flow	7.9 gal/min(30.0 L/min)
Hydraulic Motors	
Travel	2 variable displacement axial piston motors
Swing	2 axial piston motors
Relief Valve Settings	
Implement circuit	4,626.7 psi (31.9 MPa)
Swing circuit	4,119.1 psi (28.4 MPa)
Travel circuit	5,119.8 psi (35.3 MPa)
Pilot circuit	565.6 psi (3.9 MPa)
Power boost	5,119.8 psi (35.3 MPa)
Hydraulic Cylinders	
	Quantity
Boom	2
Arm	1
Bucket	1

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	9.6 min ⁻¹
Swing torque	109,159 lbf (148.0 kNm)

UNDERCARRIAGE	
Tracks	
Track shoes with triple 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	53
Track guards	2
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 3.4 mph (0 to 5.5 km/h) Low: 0 to 2.3 mph (0 to 3.7 km/h)
Maximum traction force	73,962 lbf (329 kN)
Gradeability	70% (35°) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	178.2 gal (675.0 L)
Engine coolant	20.3 gal (77.0 L)
Engine oil	16.4 gal (62.0 L)
Swing device (each side)	1.7 gal (6.5 L)
Travel device (each side)	2.9 gal (11.0 L)
Hydraulic system	134.6 gal (510.0 L)
Hydraulic oil tank	81.8 gal (310.0 L)
DEF/AdBlue® tank	25.1 gal (95.0 L)

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4 / EU Stage IV
Sounds Level	
Sound level in cab according to ISO 6396: 2008	LpA 70 dB(A)
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC	LwA 107 dB(A)

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

Bucket Capacity ISO7451: 2007 heaped, yd ³ (m ³)	Boom type ft-in (m)	Arm type ft-in (m)	Shoe grouser type	Shoe width	Operating weight	Ground pressure
				in (mm)	lb (kg)	psi (kPa)
2.7 (2.1) Rock bucket	22' 12" (7.0) H	11' 2" (3.4)	Triple	35" (900)	110,451 (50,100)* ¹ 108,026 (49,000)* ²	8.27 (57)
		12' 10" (3.9)	Triple	35" (900)	110,672 (50,200)* ¹ 108,247 (49,100)* ²	8.27 (57)

*1 Variable Gauge Undercarriage

*2 Fixed Undercarriage

BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

	ZX490LC-7H	
	Boom length	Boom 22' 12" (7.0 m) H
	Arm length	Arm 11' 2" (3.4 m) H
		Boom 22' 12" (7.0 m) H
		Arm 12' 10" (3.9 m) Semilong
Bucket digging force* ISO 6015: 2006	64,295 (286)	64,295 (286)
Arm crowd force* ISO 6015: 2006	50,582 (225)	45,187 (201)

* At power boost

EQUIPMENT

ZX490LC-7H

●: Standard equipment ○: Optional equipment

ENGINE	ZX490LC-7H
Aftertreatment device	●
Air cleaner double filters	●
Alternator 90 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
ConSite OIL (sensor)*	●
DEF / AdBlue® tank	●
DEF / AdBlue® tank inlet strainer and extension filler	●
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	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Maintenance free pre-cleaner	○
Radiator, oil cooler and intercooler	●
Reversible fan	●

HYDRAULIC SYSTEM	ZX490LC-7H
Auto power lift	●
AUX function lever (breaker)	●
AUX function lever (breaker assist)	○
Attachment pedal	○
Boom mode selector system	●
ConSite Oil (sensor)*	●
Control pattern changer (ISO/BH)	●
Control valve with main relief valve	●
Drain filter	●
Engine speed sensing system	●
Extra port for control valve	●
Hose rupture valve for boom/arm and overload alarm	○
Pilot filter	●
Power boost	●
Shockless valve in pilot circuit	●
Straight travel pedal	○
Suction filter	●
Variable relief valve for breaker and crusher	●
Work mode selector	●

CAB	ZX490LC-7H
All-weather sound suppressed steel cab	●
Auto control air conditioner	●
Bluetooth® integrated radio	●
Console height adjustment	●
Control lever auto-lock	●
CRES VII (center pillar reinforced structure) cab	●
Drink holder with hot and cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Fluid-filled elastic mounts (6)	●
Foot rest	●
Front window washer (2 points)	●
Glove compartment	●
Hands-free calling device	●
Hot and cool box	●
Intermittent windshield wiper	●
Key cylinder light	●
Laminated round glass front window	●
LED room light	●
Magazine rack	●
OPG front guard Level II (ISO10262: 1998) compliant	○
OPG top guard Level I (ISO10262: 1998) compliant	●
OPG top guard Level II (ISO10262: 1998) compliant	○
Pilot shut-off lever	●
Power outlet 12 V and 24 V	●
Push button low idle	●
Rain guard (without OPG front guard)	●
Rear tray	●
Retractable seat belt 3 in. (76 mm)	●
ROPS (ISO 12117-2: 2008) compliant cab	●
Rubber radio antenna	●
Seat: air suspension seat with heater	●
Seat adjustment part: backrest, armrest, height and angle, slide forward / back	●
Seat belt reminder	●
Short wrist control levers	●
Smartphone holder	●
Stereo speakers (2)	●
Sunscreen roller type (multi-use front or side and rear window)	●
Transparent roof with slide curtain	●
USB power supply	●
Wide view wiper	●
Windows on front, upper and lower side can be opened	●
Windows on left side can be opened	●
8" monitor	●

●: Standard equipment ○: Optional equipment

MONITOR SYSTEM	ZX490LC-7H
Alarm buzzers: overheat, engine oil pressure, overload, SCR system trouble, etc	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	●
Display of meters: water temperature, hour, fuel rate, clock, DEF / AdBlue® rate, etc	●
Other displays: work mode, auto-idle, glow, rear view monitor, side view monitor, operating conditions, etc	●
35 languages selection	●

LIGHTS	ZX490LC-7H
Additional boom LED light with cover	●
Additional cab roof front LED lights	●
LED lights for camera (side and rear view camera)	●
Rotating lamp	○
Working LED lights (2)	●

UPPER STRUCTURE	ZX490LC-7H
AERIAL ANGLE (side and rear view camera)	●
Batteries 2 x 147 Ah	●
Body top handrail	●
Counterweight 20,018 lb (9,080 kg)	●
Counterweight removal system	○
Fuel level float	●
Hydraulic oil level gauge	●
Ladder	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Reinforced under cover	○
Side view mirror (right and left)	●
Sidewalk (cab side)	●
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●
Utility space	●
2 way battery disconnect switch	●

UNDERCARRIAGE	ZX490LC-7H
Bolt-on sprocket	●
Reinforced track links with pin seals	●
Shoe: 35" (900 mm) triple grouser	●
Tie down hooks (4)	●
Track guards (2 each side)	●
Track undercover	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●

FRONT ATTACHMENTS	ZX490LC-7H
Arm 2.90 m BE	○
Arm 2.50 m BE	●
Boom 22' 12" (7.0 m) H	●
Centralized lubrication system	●
Cylinder hose protectors arm	●
Cylinder hose protectors bucket	●
Damage prevention plate and square bars	●
Dirt seal on all bucket pins	●
Flanged pin	●

ATTACHMENTS	ZX490LC-7H
Auxiliary Hydraulic Piping	●
Additional pump	○
Assist piping	○
Pilot accumulator	●
Two Pump Combined Flow	○

MISCELLANEOUS	ZX490LC-7H
ConSite	○
Exclusive Global e-Service telematics	●
Onboard information controller	●
Satellite communication device	○
Standard tool kit	●
Travel alarm	●

Standard and optional equipment may vary by country, so please consult your Hitachi Construction Machinery Americas authorized local dealer for details.
* Engine oil and hydraulic oil monitoring sensor.

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Well-respected in North America since the 1970s when Hitachi Construction Machinery Group led a prominent joint venture, Hitachi Construction Machinery Americas recently established a new facility in Newnan, GA. that is poised to support local customers for years to come.

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