HITACHI

Reliable solutions

SUPER LONG FRONT

APPLICATION & ATTACHMENT



ZA/IS 490LCH

Model Code	ZX490LCH-7
Engine Rated Power	296 kW (IS014396)
Operating Weight	51 500 - 52 900 kg

SPECIFICATIONS

ZX490LCH-7 TYPE HE16LD SUPER LONG FRONT

ENGINE	
Model	Isuzu 6WG1
Туре	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC, CSF and SCR system
No. of cylinders	6
Rated power	
ISO 14396	296 kW at 1 800 min ⁻¹
ISO 9249, net	295 kW at 1 800 min ⁻¹
SAE J1349, net	295 kW at 1 800 min ⁻¹
Maximum torque	2 050 Nm at 1 300 min ⁻¹
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 385 L/min
Pilot pump	1 gear pump
Maximum oil flow	30 L/min

Hydraulic Motors

Iravel	2 variable displacement axial piston motors
Swing	2 axial piston motors

Relief Valve Settings

Implement circuit	31.9 MPa
Swing circuit	28.4 MPa
Travel circuit	35.3 MPa
Pilot circuit	3.9 MPa

Hydraulic Cylinders

	Quantity	Bore	Rod diameter	
Boom	2	170 mm	115 mm	
Arm	1	190 mm	130 mm	
Bucket	1	140 mm	95 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 9.6 min⁻¹ (rpm)

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 guard	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.

Maximum traction force ... 329 kN

ENVIRONMENT

Engine Emissions

EU Stage V

Sound Level

Sound level in cab according to ISO 6396	LpA 70	dB(A)
External sound level according to ISO 6395 and		
EU Directive 2000/14/ECL	wA 107	dB(A)

Air Conditioning System

The air conditioning system contains fluorinated greenhouse gase. Refrigerant type : HFC-134a, GWP: 1430, Amount: 1.10 kg, $\rm CO_2e$: 1.57 ton.

SERVICE REFILL CAPACITIES

	ZX490LCH
Fuel tank	675.0
Engine coolant	70.0
Engine oil	62.0
Swing device (each side)	6.5
Travel device (each side)	11.0
Hydraulic system	510.0
Hydraulic oil tank	310.0
DEF/AdBlue® tank	95.0

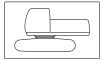
WEIGHTS AND GROUND PRESSURE

ZAXIS 490LCH TYPE HE16LD SUPER LONG FRONT:

Equipped with 9.50 m monoblock boom, 6.40 m arm and 1.15 m³ bucket (SAE, PCSA heaped), 9 780 kg counterweight.

Shoe type	Shoe width	Operating weight	Ground pressure
	600 mm	51 500 kg	86 kPa (0.88 kgf/cm²)
Triple grouser	750 mm	52 300 kg	70 kPa (0.71 kgf/cm²)
9,00001	900 mm	52 900 kg	59 kPa (0.60 kgf/cm²)

Basic Machine Weight and Overall width



Excluding front end attachment, fuel, hydraulic oil and coolant etc. Including counterweight.

ZX490LCH-7

Shoe width	Weight	Overall width (Retracted/Extended)
600 mm	41 500 kg	2 990 / 3 490 mm
750 mm	42 300 kg	3 140 / 3 640 mm
900 mm	43 000 kg	3 290 / 3 790 mm

BUCKET SPECIFICATIONS AND COMPATIBILITY

ZX490LCH-6

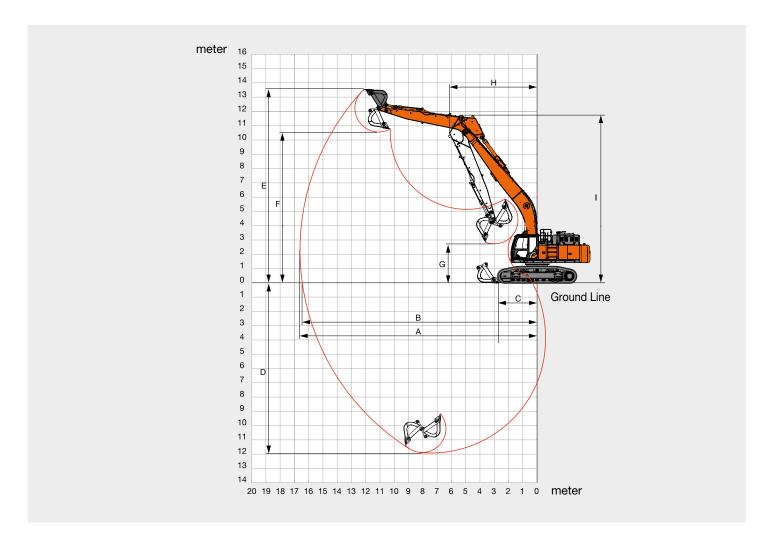
	Capacity ISO heaped	Width Without side cutters	Weight	Recommendation ZX490LCH-7 HE16LD
Decade and the	1.15 m ³	1 100 mm	1 080 kg	©
Bucket radius 1 060 mm	1.40 m ³	1 280 mm	1 170 kg	
1 000 111111	1.62 m ³	1 460 mm	1 260 kg	
Max. weight		3 200 kg		

[©] Suitable for materials with density of 1 800 kg/m³ or less

[☐] Suitable for materials with density of 1 100 kg/m³ or less

SPECIFICATIONS ZX490LCH-7 TYPE HE16LD SUPER LONG FRONT

WORKING RANGES

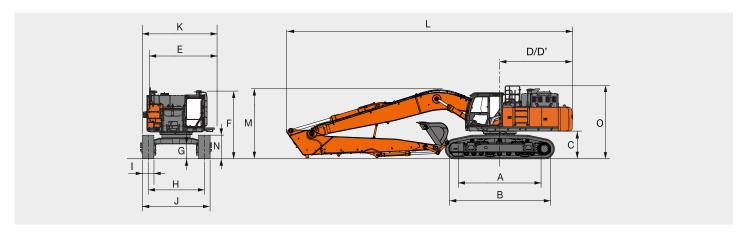


Unit: mm

		Office Hilli
		490LCH-7 TYPE HE16LD
Α	Max. digging reach	16 570
В	Max. digging reach (on ground)	16 410
С	Min. level crowding distance	2 510
D	Max. digging depth	11 910
Е	Max. cutting height	13 540
F	Max. dumping height	2 730
G	Min. dumping height	10 550
Н	Min. swing radius	6 170
I	Min. swing radius height	11 710
Buck	xet digging force ISO	178 kN
Arm	crowd force ISO	124 kN

• Excluding track shoe lug

DIMENSIONS



Unit: mm

			Offic. Itilit
		ZAXIS 490LCH ^{'2}	
A Distance between tumblers		4 470	
B Undercarriage length		5 470	
^{*1} C Counterweight clearance		1 360	
D Rear-end swing radius		3 670	
D' Rear-end length		3 660	
E Overall width of upperstructure		3 480	
F Overall height of cab		3 330	
^{*1} G Min. ground clearance		737	
H Track gauge: Extended / Retracted		2 890 / 2 390	
I Track shoe width		G 600	
J Undercarriage width: Extended / Retracted	G 600	G 750	G 900
J Ondercamage width . Extended / Netracted	3 490 / 2 990	3 640 / 3 140	3 790 / 3 290
K Overall width		3 820	
L Overall length		14 580	
M Overall height of boom		3 560	
N Track height		1 220	
O Overall height of base machine		3 710	

^{*1} Excluding track shoe lug G: Grouser shoe *2 Equipped with Boom 9.5 m and Arm 6.4 m

LIFTING CAPACITIES

Metric measure

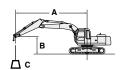
Notes: 1. Ratings are based on ISO 10567.

- 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.

ZAXIS 490LCH HE16LD SUPER LONG FRONT

5. 0m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities.



A: Load radius

B: Load point height

C: Lifting capacity

Rating over-side or 360 degrees	

Unit: kg

	Load Load radius								At max, reach							
Conditions	point	4	m	6	m	8	m	10	m	12	m	14	m	·		
	height m	Ů	©	Ů		ů	@	ů		Ů		Ů	@	Meters	ů	@
Boom: 9.5 m																
Arm: 6.4 m																
Counterweight:	12													11.2	3.28*	3.28*
9.8 t	10									4.40*	4.40*			12.7	3.15*	3.15*
	8									4.67*	4.67*			13.7	3.14*	3.14*
	6							5.58*	5.58*	4.93*	4.93*	4.28*	3.95	14.4	3.22*	3.22*
	4	16.30*	16.30*	10.21*	10.21*	7.61*	7.61*	6.18*	6.18*	5.27*	5.06	4.66*	3.81	14.8	3.43*	3.43*
	2	7.03*	7.03*	12.15*	12.15*	8.65*	8.65*	6.78*	6.34	5.63*	4.76	4.84*	3.66	14.9	3.72*	3.26
	0 (Ground)	7.03*	7.03*	13.30*	11.88	9.42*	8.07	7.26*	5.92	5.91*	4.51	4.96*	3.53	14.7	4.14*	3.24
	-2	9.23*	9.23*	13.53*	11.44	9.76*	7.68	7.51*	5.65	6.04*	4.35	4.93*	3.46	14.2	4.79*	3.36
	-4	12.17*	12.17*	13.01*	11.44	9.61*	7.57	7.43*	5.55	5.89*	4.31			13.5	4.92*	3.67
	-6	15.77*	15.77*	11.77*	11.72	8.89*	7.69	6.88*	5.63	5.28*	4.41			12.3	4.99*	4.25
	-8	12.78*	12.78*	9.66*	9.66*	7.42*	7.42*	5.58*	5.58*					10.7	4.91*	4.91*
	-10			6.17*	6.17*	4.58*	4.58*							8.3	4.26*	4.26*

Rating over-front

* Indicates load limited by hydraulic capacity

EQUIPMENT

ENGINE	ZAXIS 490LCH
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 inlet strainer and extension filler	•
DEF/AdBlue® tank with ISO magnet adapter	•
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 SYTEM	
Auto power lift	•
Boom mode selector system	•
ConSite OIL (sensor)*	•
Control valve with main relief valve	•
Drain filter	•
Engine speed sensing system	•
Extra port for control valve	•
Hose rupture valve for arm	•
Hose rupture valve for boom	•
Pilot filter	•
Shockless valve in pilot circuit	•
Suction filter	•
Work mode selector	•

САВ	ZAXIS 490LCH
All-weather sound suppressed steel cab	•
Auto control air conditioner	•
Bluetooth® integrated DAB+ radio	•
Console height adjustment	•
CRES VII (center pillar reinforced structure) cab	•
Demolition cab with P5A glass and improved visibility	0
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	•
Footrest	•
Front window washer (2 points)	•
Glove compartment	•

 $\bullet \ : Standard \ equipment \qquad \circ \ : Optional \ equipment \qquad - \ : Not \ applicable$

Ottandard oquipmont Optional oquipmont .	140t applicable
САВ	ZAXIS 490LCH
Hands-free calling device	•
Hot and cool box	•
Intermittent windshield wiper	•
Key cylinder light	•
Laminated round glass front window	•
Laminated straight glass front window	_
LED room light	•
Magazine rack	•
OPG front guard Level II (ISO10262) compliant	0
OPG top guard Level I (ISO10262) compliant	•
OPG top guard Level II (ISO10262) compliant	0
Pilot shut-off lever	•
Power outlet 12 V and 24 V	•
Rain guard (without OPG front guard)	•
Rear tray	•
Retractable seat belt	•
ROPS (ISO12117-2) 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	•
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 leftside can be opened	•
2 speakers	•
6 fluid-filled elastic mounts	•
8 inch monitor	•

MONITOR SYSTEM	ZAXIS 490LCH
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	•
Alarm buzzers: overheat, engine oil pressure, 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	
Additional boom LED light with cover	0
Additional cab roof front 2 LED lights	0
Additional cab roof front 4 LED lights	0
Additional cab roof rear LED lights	0
LED lights for camera (side and rear view camera)	0
Rotating lamp	0
2 working LED lights	•

Aerial Angle® (side and rear view camera) Auto-grease lubricator (without bucket and link pins) Batteries 2 x 170 Ah Body top handrail Counterweight 9 080 kg Counterweight 9 780 kg Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space 2 way disconnect switch	LIBBER STRUCTURE	
Auto-grease lubricator (without bucket and link pins) Batteries 2 x 170 Ah Body top handrail Counterweight 9 080 kg Counterweight 9 780 kg Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	UPPER STRUCTURE	
Batteries 2 x 170 Ah Body top handrail Counterweight 9 080 kg Counterweight 9 780 kg Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Aerial Angle® (side and rear view camera)	•
Body top handrail Counterweight 9 080 kg Counterweight 9 780 kg Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Auto-grease lubricator (without bucket and link pins)	•
Counterweight 9 080 kg Counterweight 9 780 kg Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Batteries 2 x 170 Ah	•
Counterweight 9 780 kg Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Body top handrail	•
Electric fuel refilling pump with auto stop and filter Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Counterweight 9 080 kg	_
Electrical grease pump with hose-reel Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Counterweight 9 780 kg	•
Fuel level float Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Electric fuel refilling pump with auto stop and filter	•
Hydraulic oil level gauge Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Electrical grease pump with hose-reel	•
Ladder Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Fuel level float	•
Lockable fuel refilling cap Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Hydraulic oil level gauge	•
Lockable machine covers Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Ladder	•
Lockable tool box Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Lockable fuel refilling cap	•
Platform handrail Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Lockable machine covers	•
Sidewalk (cab side) Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Lockable tool box	•
Skid-resistant plates and handrails Swing parking brake Undercover Utility space	Platform handrail	•
Swing parking brake Undercover Utility space	Sidewalk (cab side)	•
Undercover Utility space	Skid-resistant plates and handrails	•
Utility space •	Swing parking brake	•
	Undercover	•
2 way disconnect switch	Utility space	•
	2 way disconnect switch	•

UNDERCARRIAGE	ZAXIS 490LCH
Bolt-on sprocket	•
Full track guard and hydraulic track adjuster	_
Reinforced track links with pin seals	•
Shoe: 600 mm double grouser	0
Shoe: 600 mm triple grouser	•
Shoe: 750 mm triple grouser	0
Shoe: 900 mm triple grouser	0
Track undercover	•
Travel direction mark on track frame	•
Travel motor covers	•
Travel parking brake	•
Upper and lower rollers	•
2 track guards (each side) and hydraulic track adjuster	•
4 tie down hooks	•

 Standard equipment 	Optional equipment	 : Not applicable
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FRONT ATTACHMENTS	
Arm 6.4 m	•
Boom 9.5 m	•
Centralized lubrication system	•
Cylinder hose protectors arm	•
Cylinder hose protectors boom	•
Cylinder hose protectors bucket	•
Damage prevention plate and square bars	•
Dirt seal on all bucket pins	•
Flanged pin	•
Casted bucket link A	•
Reinforced link B	•

ATTACHMENTS	
Pilot accumulator	•
Accessories for 2 speed selector	•

MISCELLANEOUS	
ConSite	0
Global e-Service	•
Onboard information controller	•
Standard tool kit	•
Theft prevention system**	0

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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.

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