HITACHI

ZX345USLC-7 |

Preliminary **ZAXIS-7 series**

Reliable Solutions



ZA/IS345

HYDRAULIC EXCAVATOR

Model code: ZX345USLC-7H Engine rated power, net: 249 hp (186 kW) Operating weight: 76,955-79,380 lb. (34,900-36,000 kg) Bucket capacity: 1.30-2.11 yd³ (1.00-1.62 m³)

SPECIFICATIONS

ENGINE	
Model	Isuzu 6HK1X
Туре	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	264 hp (197 kW) at 1,900 min ⁻¹
ISO 9249: 2007 net	249 hp (186 kW) at 1,900 min-1
Maximum torque	774 lbf (1,050 Nm) at 1,500 min ⁻¹
Piston displacement	475.38 cu. in. (7.79 L)
Bore and stroke	4.5" x 4.9" (115 mm x 125 mm)
Batteries	2 x 12 V / 135 Ah

LIVERALILIO OVOTEM			
HYDRAULIC SYSTEM			
Hydraulic Pumps			
Main pumps	3 vai	riable displacemer	nt axial piston pumps
Maximum oil flow	I	2 gal/min (236 L/m 5 gal/min (210 L/m	,
Pilot pump	1 ge	ar pump	
Maximum oil flow	9.2 g	gal/min (34.7 L/mii	n)
Hydraulic Motors			
Travel 2 variable displacement axial piston motors		nt axial piston motors	
Swing	1 axial piston motor		
Relief Valve Settings			
Implement circuit 4,974.8 ps		4.8 psi (34.3 MPa)
Swing circuit	4,699.2 psi (32.4 MPa)		
Travel circuit	ircuit 4,974.8 psi (34.3 MPa)		
Pilot circuit	565.0	565.6 psi (3.9 MPa)	
Power boost	5,51	5,511.4 psi (38.0 MPa)	
Hydraulic Cylinders			
	Quantity	Bore	Rod diameter

<u>, , , , , , , , , , , , , , , , , , , </u>			
	Quantity	Bore	Rod diameter
Boom	2	5.3" (135 mm)	3.9" (100 mm)
Arm	1	5.9" (150 mm)	4.1" (105 mm)
Bucket	1	5.3" (135 mm)	3.5" (90 mm)

UPPERSTRUCTURE		
Revolving Fra	ame	
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. Swing parking brake is spring-set/ hydraulic-released disc type.		
Swing speed 10.3 min ⁻¹		
Swing torque 66,749 lbf (90.5 kNm)		

UNDERCARRIAGE			
Tracks			
	ecting pins with dirt seals. Hydraulic (grease) track ck-absorbing recoil springs.		
Numbers of Rolle	ers and Shoes on Each Side		
Upper rollers	2		
Lower rollers	8		
Track shoes	48		
Track guards	3		
Travel Device	Travel Device		
Each track driven by 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.			
Traval appeda	High: 0 to 2.5 mph (0 to 4.1 km/h)		
Traver speeds	Travel speeds Low: 0 to 1.6 mph (0 to 2.6 km/h)		
Maximum traction force	traction 66,993 lbf (298 kN)		
Gradeability	70% (35 degree) continuous		

SERVICE REFILL CAPACITIES		
Fuel tank	100.3 gal (380.0 L)	
Engine coolant	10.8 gal (41.0 L)	
Engine oil	12.7 gal (48.0 L)	
Swing device	3.1 gal (11.7 L)	
Travel device (each side)	2.9 gal (11.0 L)	
Hydraulic system	66.3 gal (251.0 L)	
Hydraulic oil tank	42.2 gal (160.0 L)	
DEF/AdBlue® tank	4.2 gal (16.0 L)	

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4 / EU Stage IV
Sounds Level	
Sound level in cab according to ISO 6396: 2008	LpA 69 dB(A)
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC	LwA 104 dB(A)

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

			ZX345U\$	SLC-7H *1
Boom type		Mono	block	
Shoe type	Shoe width, inch (mm)	Arm length, ft-in (m)	lb (kg)	psi (kPa)
Triple grouser	32" (800)	12'4" (3.76)	79,366 (36,000)	7.40 (51.0)

^{*1} Including 1.63 yd3 (1.25 m3) (ISO 7451: 2007 heaped) bucket weight, 2,249 lb (1,020 kg) and counterweight, 19,136 lb (8,680 kg).

BASIC MACHINE WEIGHT AND COMPONENTS WEIGHT

Basic Machine Weight and Overall Width

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



		ZX345U	ISLC-7H
Shoe Type	Shoe width inch (mm)	Weight lb (kg)	Overall width in (mm)
Triple grouser	32" (800)	65,477 (29,700)	11' 1" (3,390)

Components Weight Unit: lb (kg)

	ZX300LC-7H
Counterweight	19,136 (8,680)
Monoblock boom (with arm cylinder and boom cylinder)	6,702 (3,040)
Arm 12' 4" (3.76 m) (with bucket cylinder)	3,549 (1,610)
Bucket ISO 7451: 2007 1.63 yd3 (1.25 m3)	2,249 (1,020)

BUCKET AND ARM DIGGING FORCE

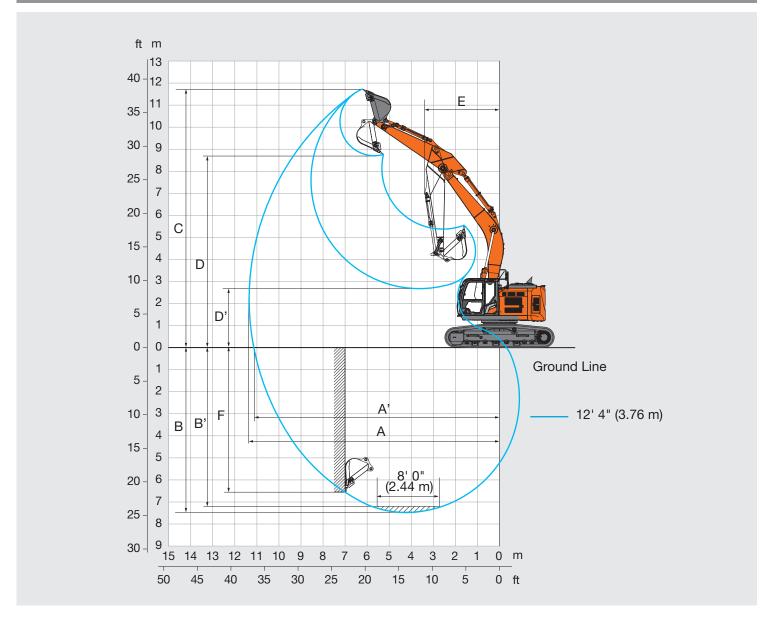
Unit: Ibf (kN)

	ZX345USLC-7H
Arm length	12' 4" (3.76 m)
Bucket digging force* ISO 6015: 2006	45,411 (202)
Arm crowd force* ISO 6015: 2006	32,372 (144)

^{*} At power boost

SPECIFICATIONS

WORKING RANGES

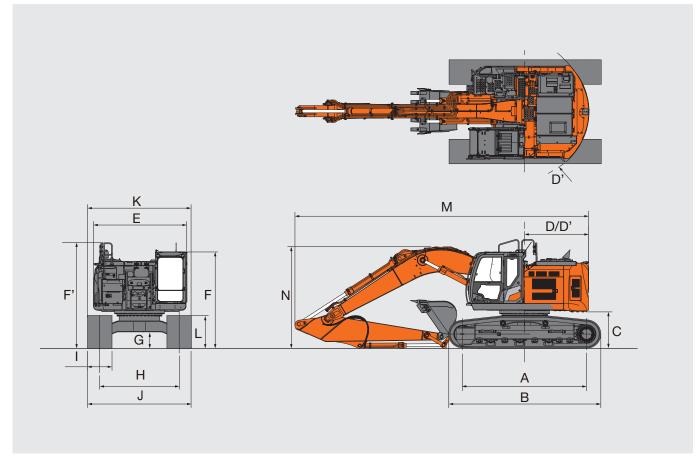


Unit: ft-in (mm)

	Since it in (time)
	ZX345USLC-7H
	Monoblock boom
Arm length	12" 4' (3.76 m)
A Max. digging reach	37' 7" (11,460)
A' Max. digging reach (on ground)	36' 10" (11,220)
B Max. digging depth	24' 10" (7,570)
B' Max. digging depth for 8' 0" (2.44 m) level	24' 4" (7,410)
C Max. cutting height	38' 4" (11,690)
D Max. dumping height	28' 5" (8,670)
D' Min. dumping height	9' 1" (2,780)
E Min. swing radius	11' 1" (3,390)
F Max. vertical wall digging depth	22' 0" (6,710)

Excluding track shoe lug

DIMENSIONS



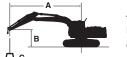
Unit: ft-in (mm)

		Office (t-int (tritin)
		ZX345USLC-7H
		Monoblock boom
Α	Distance between tumblers	13' 3" (4,050)
В	Undercarriage length	16' 2" (4,940)
*C	Counterweight clearance	3' 10" (1,160)
D	Rear-end swing radius	6' 10" (2,090)
D'	Rear-end length	6' 10" (2,090)
Е	Overall width of upperstructure	10' 0" (3,050)
F	Overall height of cab	10' 4" (3,150)
F'	Overall height of handrail	11' 8" (3,560)
*G	Min. ground clearance	1' 8" (510)
Н	Track gauge	8' 6" (2,590)
- 1	Track shoe width	G 2' 7" (800)
J	Undercarriage width	11' 1" (3,390)
K	Overall width	11' 1" (3,390)
*L	Track height with triple grouser shoes	3' 6" (1,070)
М	Overall length with 12' 4" (3.76 m) arm	32' 10" (10,020)
Ν	Overall height of boom with 12' 4" (3.76 m) arm	11' 3" (3,420)

^{*} Excluding track shoe lug G: Triple grouser shoe

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 ft (0 m) = Ground.
 - 6. Each machine capacities values are applicable when selecting optional attachment basic piping and hose rupture valve for boom and arm.



A: Load radius

B: Load point height

C: Machine capacity

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

Optional feature may affect machine performance.

ZX345USLC-7H MONOBLOCK BOOM

Rating over-front	Rating over-s	side or 360 degrees	Unit: lb (kg
		At max. re	noh
25 ft (7.5 m)	30 ft (9 0 m)	At max. re	acri

	Load	oad Load radius								At max, reach						
Conditions	point	5 ft (*	1.5 m)	10 ft ((3.0 m)	15 ft (4.5 m)	20 ft (6.0 m)	25 ft (7.5 m)	30 ft (9.0 m)]	ti iliax. ieac	
Corraidone	height ft (m)	ů	₽	ů	₽	ů	₽	ď	₽	ů	₽	ů	₽	ů	₽	ft-in (meter)
	25' (7.5)									12,080* (5,740)*	12,080* (5,740)*			8,530* (3,850)*	8,530* (3,850)*	27' 5" (8.36)
	20' (6.0)							15,380* (7,040)*	15,380* (7,040)*	14,530* (6,730)*	13,650 (6,340)	(4,390)*	(4,390)*	8,280* (3,750)*	8,280* (3,750)*	30' 1" (9.16)
Boom 20' 4"	15' (4.5)					22,730* (10,860)*	22,730* (10,860)*	19,850* (9,160)*	18,660 (8,650)	17,490* (8,070)*	13,240 (6,140)	12,320* (6,010)*	9,890 (4,600)	8,340* (3,780)*	8,340* (3,780)*	31' 8" (9.65)
(6.20 m)	10' (3.0)					31,350* (14,580)*	26,930 (12,470)	23,340* (10,790)*	17,640 (8,170)	19,380* (8,920)*	12,710 (5,890)	15,060* (7,270)*	9,630 (4,470)	8,680* (3,940)*	8,520 (3,850)	32' 5" (9.88)
Arm 12' 4" (3.76 m)	5' (1.5)					37,060* (17,170)*	25,070 (11,620)	26,420* (12,210)*	16,700 (7,730)	20,480 (9,500)	12,200 (5,650)	15,620 (7,250)	9,360 (4,340)	9,320* (4,230)*	8,350 (3,780)	32' 5" (9.87)
Counterweight 19,136 lb	0 (Ground)			14,470* (6,380)*	14,470* (6,380)*	39,280* (17,240)*	24,110 (11,190)	(13,030)*	16,050 (7,440)	20,040 (9,300)	11,800 (5,470)	15,400 (7,140)	9,160 (4,240)	10,410* (4,720)*	8,530 (3,870)	31' 7" (9.62)
(8,680 kg)	-5' (-1.5)	15,830* (7,100)*	15,830* (7,100)*	22,770* (10,080)*	22,770* (10,080)*	38,550* (17,780)*	23,810 (11,060)	27,670 (12,860)	15,740 (7,290)	19,810 (9,190)	11,600 (5,370)	(6,530)*	(4,210)	12,240* (5,530)*	9,160 (4,150)	29' 11" (9.11)
	-10' (-3.0)	24,400* (10,900)*	24,400* (10,900)*	33,570* (14,830)*	33,570* (14,830)*	35,300* (16,310)*	23,930 (11,110)	26,430* (12,230)*	15,740 (7,290)	19,850 (9,200)	11,630 (5,380)			15,670* (7,040)*	10,510 (4,740)	27' 2" (8.29)
	-15' (-4.5)			39,500* (18,400)*	39,500* (18,400)*	28,900* (13,470)*	24,440 (11,340)	21,490* (10,090)*	16,090 (7,440)					17,410* (7,910)*	13,490 (6,020)	23' 1" (7.04)

NUIES			

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

EQUIPMENT

ENGINE	ZX345USLC-7H
Aftertreatment device	•
Air cleaner double filters	•
Alternator 50 A	•
Auto idle system	•
Auto shut-down control	•
Cartridge-type engine oil filter	•
Cartridge-type fuel main filter	•
Cold fuel resistence valve	•
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 indoor 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	0
Radiator, oil cooler and intercooler	•

HYDRAULIC SYSTEM	ZX345USLC-7H
Auto power lift	•
ConSite OIL (sensor)*	•
Control valve with main relief valve	•
High mesh full flow filter	•
Hose rupture valve for boom/arm and overload alarm	0
Pilot filter	•
Power boost	•
Restriction indicator for full flow filter	0
Suction filter	•
Swing dampener valve	•
Two extra ports for control valve	•
Variable relief valve for breaker and crusher	•
Work mode selector	•

<u> </u>	Standard equipment ©. Optional equipment	. Not applicable
CAB		ZX345USLC-7H
4 fluid-filled elastic mounts		•
8 inch monitor		•
All-weather sound suppressed s	steel cab	•
Auto control air conditioner		•
AUX function lever (breaker)		•
AUX function lever (breaker assi	st)	0
Bluetooth® integrated radio		•
Console height adjustment		•
Control lever auto-lock		•
CRES VII (center pillar reinforced	structure) cab	•
Drink holder with hot and cool for	unction	•
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		•
Hands-free calling device		•
Hot and cool box		•
Intermittent windshield wipers		•
Key cylinder light		•
LED room light		•
Magazine rack		•
OPG front guard Level II (ISO 10262: 1998) compliant		0
OPG top guard Level I (ISO 10262: 1998) compliant		•
OPG top guard Level II (ISO 10262: 1998) compliant		0
Pilot shut-off lever		•
Power outlet 12 V and 24 V		•
Push button low idle		•
Rain guard (without OPG front g	uard)	•
Rear tray		•
Retractable seat belt 3 in. (76 m	m)	•
ROPS (ISO 12117-2: 2008) comp	oliant cab	•
Rubber radio antenna		•
Seat: air suspension seat with h	eater	•
Seat adjustment part: backrest, slide forward/back	armrest, height and angle,	•
Seat belt reminder		•
Short wrist control levers		•
Smartphone holder		•
Straight travel pedal		0
Sunscreen roller type (multi-use	front or side and rear window)	•
Transparent roof with slide curta	in	•
USB power supply		•
Wide view wiper		•
Windows on front, upper, lower	and left side can be opened	•
2 speakers		•

MONITOR SYSTEM	ZX345USLC-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	ZX345USLC-7H
Additional boom LED light with cover	•
Additional cab roof front LED lights	•
LED lights for camera (side and rear view camera)	•
Rotating lamp	0
2 working LED lights	•

UPPER STRUCTURE	ZX345USLC-7H
AERIAL ANGLE (270-degree view camera system)	•
Batteries 2 x 128 Ah	•
Body top handrail	•
Control pattern changer (ISO / BH)	•
Counterweight 19,136 lb (8,680 kg)	•
Fuel level float	•
HD Undercover	0
Hydraulic oil level gauge	•
Lockable fuel refilling cap	•
Lockable machine covers	•
Lockable tool box	•
Platform handrail	•
Side view mirror (right and left)	•
Skid-resistant plates	•
Swing parking brake	•
Undercover	•
Utility space	•
2 way battery disconnect switch	•

MISCELLANEOUS	ZX345USLC-7H
ConSite	0
Global e-Service	•
Onboard information controller	•
Satellite communication device	0
Standard tool kit	•
Travel alarm	•

UNDERCARRIAGE	ZX345USLC-7H
Bolt-on sprocket	•
Greasing type track adjuster	•
Reinforced track links with pin seals	•
Shoe: 32" (800 mm) triple grouser	•
Towing hole for light weight object	•
Track undercover	0
Travel direction mark on track frame	•
Travel motor covers	•
Travel parking brake	•
Upper and lower rollers	•
3 track guards (each side)	•
4 tie down brackets	•

FRONT ATTACHMENTS	ZX345USLC-7H
Arm 12' 4" (3.76 m)	•
Arm tip remote lubrication	•
Casted bucket link A	•
Centralized lubrication system	•
Dirt seal on all bucket pins	•
Flanged pin	•
HN bushing	•
Lower arm reinforcement	•
Reinforced resin thrust plate	•
WC (tungsten-carbide) thermal spraying	•

ATTACHMENTS	ZX345USLC-7H
Accessories for 2 speed selector	0
Assist piping	0
Auxiliary hydraulic piping	•
Auxiliary hydraulic piping (straight-short piping)	0
Pilot accumulator	0

HITACHI



Hitachi Construction Machinery Americas Inc. is a leading provider of construction and mining machinery services and solutions in North and Latin America. Our manufacturing facilities are located in Banshu, Ryugasaki, Tierra, Hitachinaka, and Tsuchiura, Japan, while our U.S. corporate office is in Newnan, Georgia. Our experienced team of professionals is well-equipped to design, engineer, manufacture, and service your machinery.

Through our long-term commitment to maintaining a leadership position in technology, service, and support, we support an extensive network of independent, local dealers focused on providing you with knowledgeable and experienced sales, service, and parts personnel — all backed by our dedicated support teams.

Your Hitachi Construction Machinery Americas authorized local dealer has the resources, expertise, and personnel to work with you to ensure that you receive the most benefit from your investment. You can also utilize carefully designed programs and services in conjunction with extensive digital resources. Our focus is entirely on supporting you, your business, and your machinery.

If you are searching for a reliable partner for your construction machinery needs, we invite you to explore our offerings and experience the difference with Hitachi Construction Machinery Americas.

Machines representative of global product. Options may not be available in all markets. Prior to operating this machine, including satellite communication system, in a country ofther 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 Construction Machinery Americas authorized local 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.