

# HITACHI

## ZX250LC-7 | Preliminary ZAXIS-7 series

Reliable Solutions



# ZAXIS 250

## HYDRAULIC EXCAVATOR

Model code: ZX250LC-7H

Engine rated power, net: 177 hp (132.0 kW)

Operating weight: 58,433–60,417 lb. (26,500–27,400 kg)

Bucket capacity: 1.04–1.82 yd<sup>3</sup> (0.8–1.4 m<sup>3</sup>)

# SPECIFICATIONS

ENGINE	
Model	Isuzu 4HK1
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC + SCR system
No. of cylinders	4
Rated power	
ISO 14396: 2002 gross	188 hp (140.0 kW) at 2,000 min <sup>-1</sup>
ISO 9249: 2007 net	177 hp (132.0 kW) at 2,000 min <sup>-1</sup>
Maximum torque	499 lbf (676 Nm) at 1,800 min <sup>-1</sup>
Piston displacement	316.898 cu .in. (5.193 L)
Bore and stroke	4.5" x 4.9" (115 mm x 125 mm)
Batteries	2 x 12 V/126 Ah

HYDRAULIC SYSTEM			
<b>Hydraulic Pumps</b>			
Main pumps	3 variable displacement axial piston pumps		
Maximum oil flow	2 x 64 gal/min (244 L/min)		
	1 x 51 gal/min (194 L/min)		
Pilot pump	1 gear pump		
Maximum oil flow	9.4 gal/min (35.5 L/min)		
<b>Hydraulic Motors</b>			
Travel	2 variable displacement axial piston motors		
Swing	1 axial piston motor		
<b>Relief Valve Settings</b>			
Implement circuit	4,974.8 psi (34.3 MPa)		
Swing circuit	4,699.2 psi (32.4 MPa)		
Travel circuit	4,974.8 psi (34.3 MPa)		
Pilot circuit	565.6 psi (3.9 MPa)		
Power boost	5,511.4 psi (38.0 MPa)		
<b>Hydraulic Cylinders</b>			
	Quantity	Bore	Rod diameter
Boom	2	4.9" (125 mm)	3.5" (90 mm)
Arm	1	5.5" (140 mm)	3.9" (100 mm)
Bucket	1	5.1" (130 mm)	3.5" (90 mm)

UPPERSTRUCTURE	
<b>Revolving Frame</b>	
D-section frame for resistance to deformation.	
<b>Swing Device</b>	
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	10.7 min <sup>-1</sup>
Swing torque	57,161 lbf (77.5 kNm)

UNDERCARRIAGE	
<b>Tracks</b>	
Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. 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.	
<b>Numbers of Rollers and Shoes on Each Side</b>	
Upper rollers	2
Lower rollers	9
Track shoes	51
Track guards	3
<b>Travel Device</b>	
Each track driven by 2-speed axial piston motor. 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 2.1 mph (0 to 3.4 km/h)
Maximum traction force	48,334 lbf (215 kN)
Gradeability	70% (35 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	134.6 gal (510.0 L)
Engine coolant	8.2 gal (31.0 L)
Engine oil	7.7 gal (29.0 L)
Swing device	2.5 gal (9.3 L)
Travel device (each side)	2.1 gal (7.8 L)
Hydraulic system	77.6 gal (294.0 L)
Hydraulic oil tank	41.2 gal (156.0 L)
DEF/AdBlue® tank	18.5 gal (70.0 L)

ENVIRONMENT	
Engine Emissions	EPA Final Tier 4 / EU Stage IV
<b>Sounds Level</b>	
Sound level in cab according to ISO 6396: 2008	LpA 67 dB(A)
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC	LwA 102 dB(A)

## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

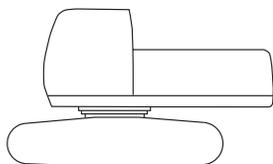
			ZX245USLC-7H *1	
Boom type			Monoblock	
Shoe type	Shoe width inch (mm)	Arm length ft-in (m)	lb (kg)	psi (kPa)
Triple grouser	32" (800)	11' 10" (3.61)	60,407 (27 400)	5.95 (41.0)

\*1 Including 1.31 yd<sup>3</sup> (1.00 m<sup>3</sup>) (ISO 7451: 2007 heaped) bucket weight, 1,874 lb (850 kg) and counterweight, 13,669 lb (6,200 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.



		ZX250LC-7H	
Shoe type	Shoe width in (mm)	Weight lb (kg)	Overall width in (mm)
Triple grouser	32" (800)	46,967 (21,300)	11' 1" (3,390)

### Components Weight

Unit: lb (kg)

		ZX250LC-7H
Counterweight		13,669 (6,200)
Monoblock boom (with arm cylinder and boom cylinder)		6,239 (2,830)
Arm 11' 10" (3.61 m) (with bucket cylinder)		3,395 (1,540)
Bucket ISO 7431: 2007 1.31 yd <sup>3</sup> (1.00 m <sup>3</sup> )		1,874 (850)

## BUCKET AND ARM DIGGING FORCE

Unit: lbf (kN)

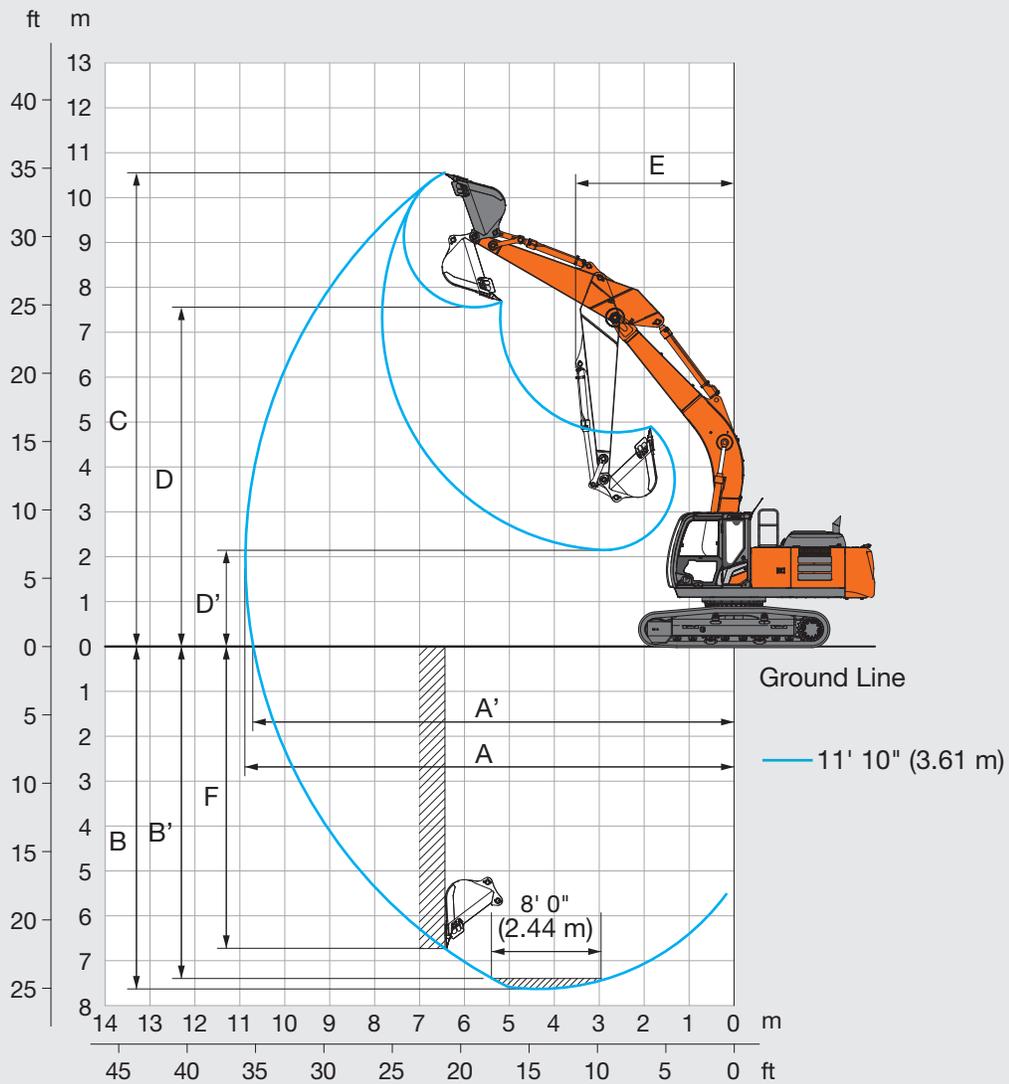
		ZX250LC-7H
Arm length		11' 10" (3.61 m)
Bucket digging force* ISO 6015: 2006		42,264 (188)
Arm crowd force* ISO 6015: 2006		25,403 (113)

\* At power boost

# SPECIFICATIONS

## ZX250LC-7H

### WORKING RANGES

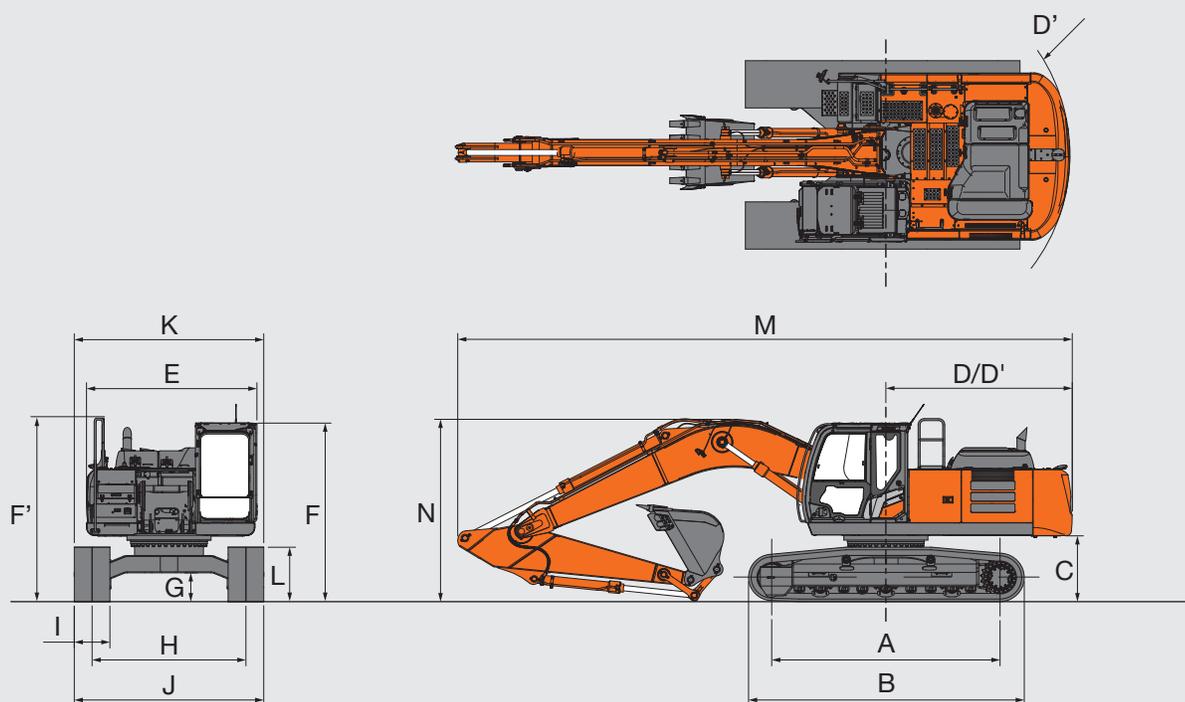


Unit: ft-in (mm)

	ZX250LC-7H
	Monoblock boom
Arm length	11' 10" (3.61 m)
A Max. digging reach	35' 10" (10,910)
A' Max. digging reach (on ground)	35' 3" (10,750)
B Max. digging depth	24' 12" (7,610)
B' Max. digging depth for 8' 0" (2.44 m) level	24' 5" (7,440)
C Max. cutting height	34' 7" (10,550)
D Max. dumping height	24' 10" (7,580)
D' Min. dumping height	7' 2" (2,180)
E Min. swing radius	11' 3" (3,430)
F Max. vertical wall digging depth	22' 1" (6,730)

Excluding track shoe lug

## DIMENSIONS



Unit: ft-in (mm)

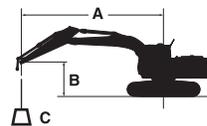
		ZX250LC-7H
		Monoblock boom
A	Distance between tumbler	12' 8" (3,850)
B	Undercarriage length	15' 3" (4,640)
C	Counterweight clearance	3' 5" (1,050)
D	Rear-end swing radius	10' 4" (3,140)
D'	Rear-end length	10' 4" (3,140)
E	Overall width of upperstructure	9' 5" (2,870)
F	Overall height of cab	9' 11" (3,010)
F'	Overall height of handrail	10' 2" (3,090)
G	Min. ground clearance	1' 6" (460)
H	Track gauge	8' 6" (2,590)
I	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' 0" (920)
M	Overall length with 11' 10" (3.61 m) arm	34' 1" (10,400)
N	Overall height of boom with 11' 10" (3.61 m) arm	10' 11" (3,340)

\*1 Excluding track shoe lug G: Triple grouser shoe

# MACHINE CAPACITIES

## ZX250LC-7H

- 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 and quick hitch.

Optional feature may affect machine performance.

### ZX250LC-7H MONOBLOCK BOOM

Rating over-front Rating over-side or 360 degrees Unit: lb (kg)

Conditions	Load point height ft (m)	Load radius												At max. reach				
		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)				ft-in (meter)		
Boom 19' 8" (6.00 m) Arm 11' 10" (3.61 m) Counterweight 13,669 lb (6,200 kg)	25' (7.5)															7,800* (3,510)*	7,800* (3,510)*	24' 5" (7.43)
	20' (6.0)							10,910* (4,980)*	10,910* (4,980)*	10,000* (4,680)*	10,000* (4,680)*					7,440* (3,370)*	7,440* (3,370)*	27' 6" (8.38)
	15' (4.5)							12,590* (5,790)*	12,590* (5,790)*	11,830* (5,400)*	11,830* (5,400)*					7,420* (3,360)*	7,420* (3,360)*	29' 5" (8.97)
	10' (3.0)			30,240*	30,240*	19,100* (8,870)*	19,100* (8,870)*	15,050* (6,940)*	15,050* (6,940)*	13,070* (6,000)*	11,620 (5,390)	8,720* (4,400)*	8,720* (4,060)*			7,660* (3,480)*	7,660* (3,480)*	30' 5" (9.28)
	5' (1.5)					24,080* (11,160)*	23,290 (10,800)	17,610* (8,130)	15,410 (7,140)	14,460* (6,650)*	11,190 (5,190)	10,020* (5,040)*	8,540 (3,960)			8,200* (3,720)*	8,200* (3,720)*	30' 8" (9.35)
	0 (Ground)			12,270* (5,350)*	12,270* (5,350)*	27,200* (12,570)*	22,210 (10,310)	19,590* (9,040)*	14,770 (6,850)	15,600* (7,180)*	10,830 (5,020)	9,290* (4,950)*	8,380 (3,880)			9,130* (4,140)*	8,360 (3,790)	30' 1" (9.16)
	-5' (-1.5)	11,680* (5,210)*	11,680* (5,210)*	19,440* (8,560)*	19,440* (8,560)*	28,170* (13,000)*	21,790 (10,120)	20,540* (9,470)*	14,430 (6,690)	16,010 (7,430)	10,630 (4,920)					10,720* (4,840)*	8,910 (4,030)	28' 7" (8.71)
	-10' (-3.0)	19,970* (8,890)*	19,970* (8,890)*	29,630* (13,030)*	29,630* (13,030)*	27,250* (12,580)*	21,800 (10,120)	20,160* (9,320)*	14,380 (6,660)	15,460* (7,180)*	10,650 (4,930)					13,680* (6,140)*	10,150 (4,580)	26' 1" (7.95)
	-15' (-4.5)	30,510* (13,510)*	30,510* (13,510)*	34,340* (15,930)*	34,340* (15,930)*	24,110* (11,200)*	22,210 (10,300)	17,680* (8,260)*	14,680 (6,790)							15,400* (6,970)*	12,960 (5,790)	22' 3" (6.77)
-20' (-6.0)					(7,910)*	(7,910)*									(7,130)*	(7,130)*	(4.88)	



# EQUIPMENT

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

ENGINE	ZX250LC-7H
Aftertreatment device	●
Air cleaner double filters	●
Alternator 60 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance 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	○
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	ZX250LC-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	○
Pilot filter	●
Power boost	●
Restriction indicator for full flow filter	○
Suction filter	●
Swing dampener valve	●
Two extra ports for control valve	●
Variable relief valve for breaker and crusher	●
Work mode selector	●

CAB	ZX250LC-7H
All-weather sound suppressed steel cab	●
Auto control air conditioner	●
AUX function lever (breaker)	●
AUX function lever (breaker assist)	○
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	●
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	○
OPG top guard Level I (ISO 10262: 1998) compliant	●
OPG top guard Level II (ISO 10262: 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	●
Straight travel pedal	○
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, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●
8 inch monitor	●

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

MONITOR SYSTEM	ZX250LC-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, rearview monitor, operating conditions, etc	●
35 languages selection	●

LIGHTS	ZX250LC-7H
Additional boom LED light with cover	●
Additional cab roof front LED lights	●
LED lights for camera (side and rear view camera)	●
Rotating lamp	○
2 working LED lights	●

UPPER STRUCTURE	ZX250LC-7H
AERIAL ANGLE (270-degree view camera system)	●
Batteries 2 x 126 Ah	●
Body top handrail	●
Control pattern changer (ISO / BH)	●
Counterweight 13,669 lb (6 200 kg)	●
Fuel level float	●
HD undercover	○
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	●

UNDERCARRIAGE	ZX250LC-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	○
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	ZX250LC-7H
Arm 11" 10" (3.61 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 bucket link B	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

ATTACHMENTS	ZX250LC-7H
Accessories for 2 speed selector	○
Additional pump (13.2 gal (50 L)/min)	○
Assist piping	○
Auxiliary hydraulic piping (straight-short piping)	○
Auxiliary hydraulic piping	●
Pilot accumulator	○

MISCELLANEOUS	ZX250LC-7H
ConSite	○
Global e-Service	●
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.



# HITACHI

## Reliable Solutions



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**BUILT ON IT.**

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