

ZX250LC-7H SPECIFICATIONS

HITACHI

Reliable Solutions

LANDCROS

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 ⁻¹
ISO 9249 : 2007 net	177 HP (132.0 kW) at 2,000 min ⁻¹
Maximum torque	499 lbf (676 Nm) at 1,800 min ⁻¹
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 / 88 Ah

HYDRAULIC SYSTEM			
Hydraulic Pumps			
Main pumps	3 variable displacement axial piston pumps		
Maximum oil flow	2 x 59 gal/min (224 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)		
Hydraulic Motors			
Travel	2 variable displacement axial piston motors		
Swing	1 axial piston motor		
Relief Valve Settings			
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)		
Hydraulic Cylinders			
	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	
Revolving Frame	
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	10.7 min ⁻¹
Swing torque	57,161 lbf (77.5 kNm)

UNDERCARRIAGE	
Tracks	
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.	
Numbers of Rollers and Shoes on Each Side	
Upper rollers	2
Lower rollers	9
Track shoes	51
Track guards	3
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.	
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
Sounds Level	
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)

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WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

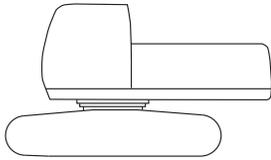
			ZX250LC-7H*	
Boom type			Monoblock	
Shoe type	Shoe width (inch (mm))	Arm length (ft-in (m))	lb (kg)	psi (kPa)
Triple grouser	32" (800)	11' 10" (3.61)	60,186 (27,300)	5.89 (40.6)

* Including 1.31 yd³ (1.00 m³) (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 (inch (mm))	Weight lb (kg)	Overall width (inch (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 ³ (1.00 m ³)	1,874 (850)

BUCKET AND ARM DIGGING FORCE

Unit: ibf (kN)

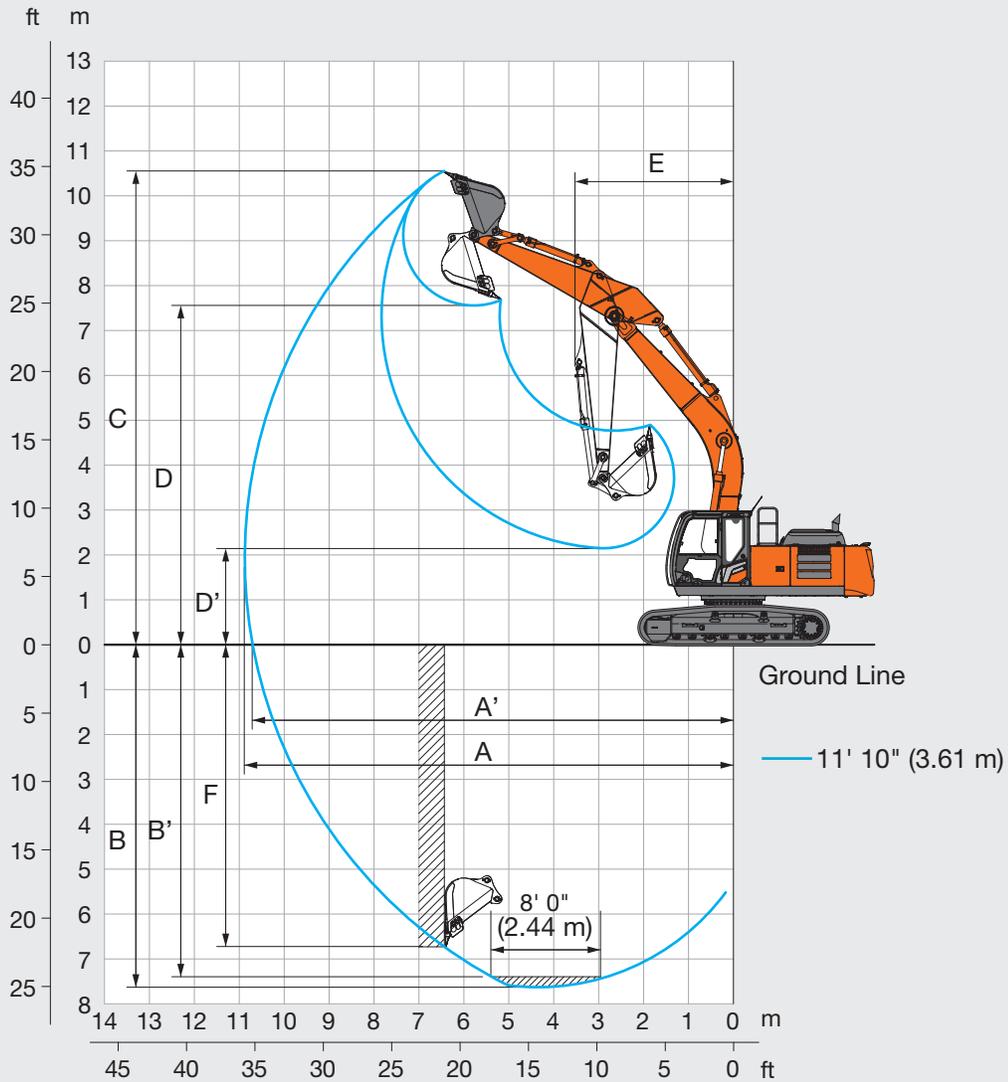
	ZX250LC-7H
Arm length	11' 10" (3.61 m)
Bucket digging force* ISO 6015 : 2006	42,264 (188)
Arm crowd force* ISO 6015 : 2006	25,403 (113)

* At power boost

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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)

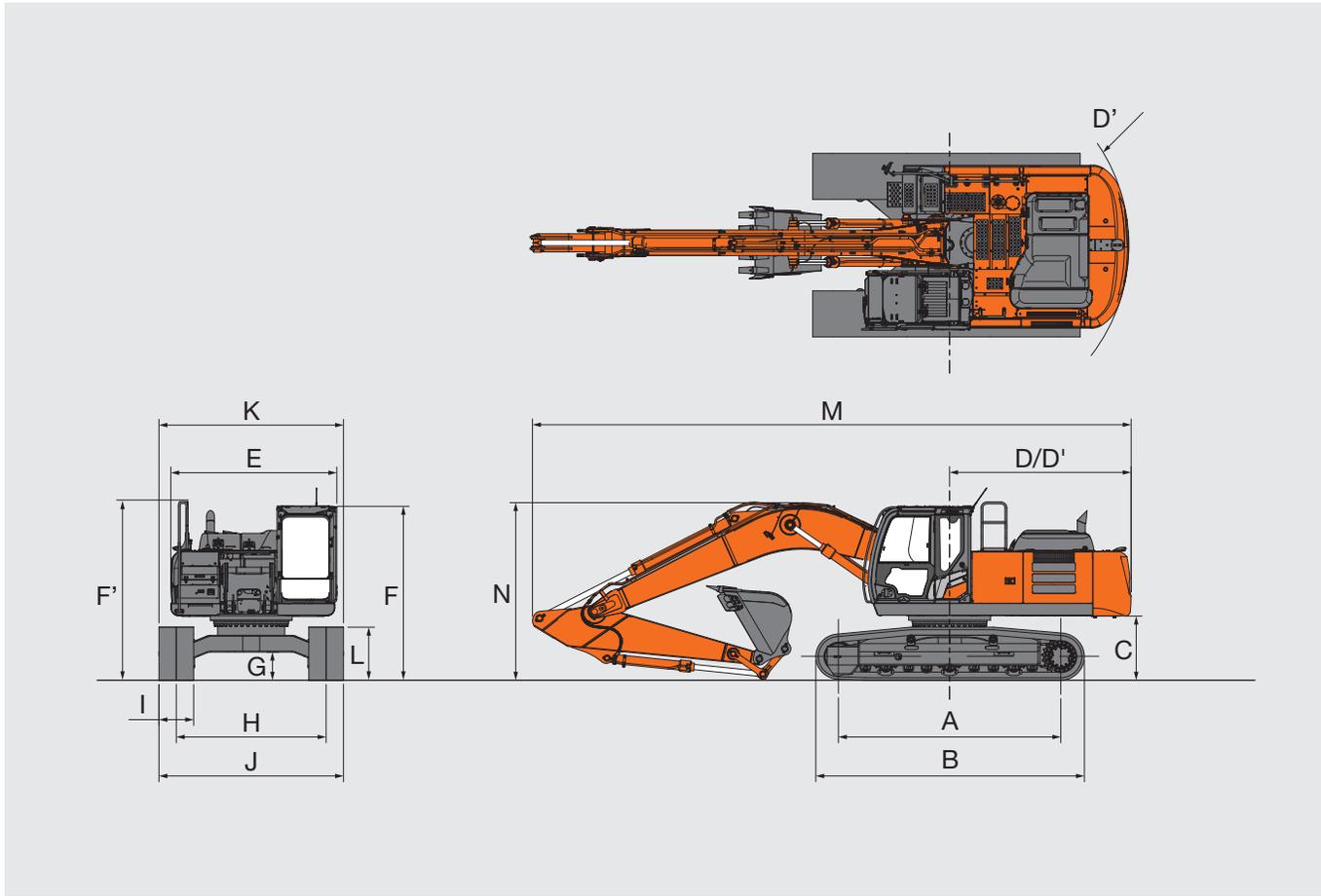
Excluding track shoe lug

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SPECIFICATIONS

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DIMENSIONS



Unit: ft-in (mm)

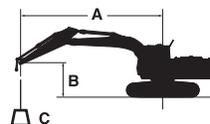
		ZX250LC-7H
		Monoblock boom
A	Distance between tumbler	12' 8" (3,850)
B	Undercarriage length	15' 3" (4,640)
C	Counterweight clearance	3' 5" (1,050)
D	Rear-end swing radius	10' 4" (3,140)
D'	Rear-end length	10' 4" (3,140)
E	Overall width of upperstructure	9' 5" (2,870)
F	Overall height of cab	9' 11" (3,010)
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 Arm 11' 10" (3.61 m)	34' 1" (10,400)
N	Overall height of boom	
	With Arm 11' 10" (3.61 m)	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.



- 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' 1" (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' 4" (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' 4" (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' 6" (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)	25' 12" (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)	21' 12" (6.77)
	-20' (-6.0)					(*7,910)	(*7,910)							(*7,130)	(*7,130)	(4.88)

SPECIFICATIONS

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ZX250LC-7H BUCKET SELECTION

The buckets recommended for installation on this machine are representative only. Actual weights and dimensions should be used to determine acceptability.

* Optional equipment such as Thumb and Coupler are not included.

	Bucket						Arm Length		
	Width		Capacity		Weight		11' 10"	9' 9"	
	in	mm	yd ³	m ³	kg	kg			
ZX250LC-7H	30	762	1.44	1.10	2,350	1,066	●	-	
	30	762	1.71	1.31	3,200	1,451	-	●	
	36	914	1.44	1.10	2,350	1,066	●	-	
	36	914	1.71	1.31	3,200	1,451	-	●	
	42	1,067	1.44	1.10	2,350	1,066	●	-	
	42	1,067	1.71	1.31	3,200	1,451	-	●	
	48	1,219	1.60	1.22	2,600	1,179	◎	-	
	48	1,219	1.89	1.45	3,500	1,588	-	◎	
	54	1,372	1.86	1.42	2,750	1,247	○	-	
	54	1,372	2.19	1.67	3,700	1,678	-	○	
	60	1,524	2.20	1.68	3,000	1,361	▲	-	
	60	1,524	2.50	1.91	4,000	1,814	-	▲	
	Maximum load with pin-on (Bucket + Payload)						lb	7,420	9,190
							kg	3,360	4,160

- : Suitable for materials with density of 3,500 lb/yd³ (2,100 kg/m³) or less.
- ◎ : Suitable for materials with density of 3,000 lb/yd³ (1,800 kg/m³) or less.
- : Suitable for materials with density of 2,500 lb/yd³ (1,500 kg/m³) or less.
- ▲ : Suitable for materials with density of 2,000 lb/yd³ (1,200 kg/m³) or less.
- △ : Suitable for materials with density of 1,800 lb/yd³ (1,100 kg/m³) or less.
- : Suitable for materials with density of 1,500 lb/yd³ (900 kg/m³) or less.
- : Not applicable

Maximum load with pin-on (Bucket + Payload) complies with ISO 10567: 2007.

Using a bucket heavier or wider than recommended specifications may result in less than optimal performance, including reduced productivity, stability, reliability and component durability.

Improper use of the bucket to sweep, pry, twist or snag heavy loads will shorten the life of the boom and arm.

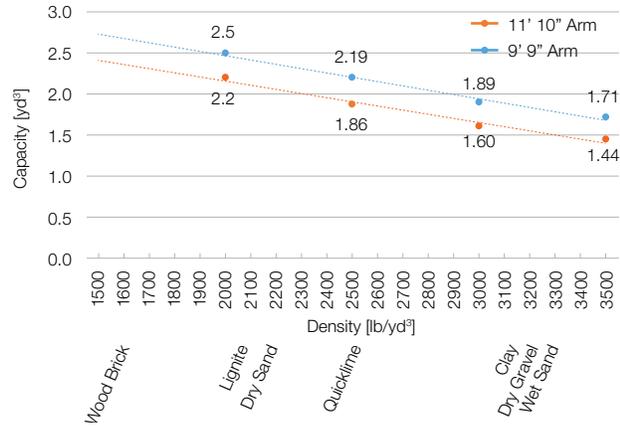
[Reference]

Example calculation for Maximum Load of 7,450 lb.

$$\begin{aligned}
 \text{Load with pin-on (Bucket + Payload)} &= \text{Bucket weight} + \text{Payload (Bucket capacity} \times \text{Material density)} \\
 &= 1,708 \text{ lb} + (1.36 \text{ yd}^3 \times 3,500 \text{ lb/yd}^3) \\
 &= 6,468 \text{ lb} < \text{Maximum Load } 7,450 \text{ lb} \text{ ---> OK}
 \end{aligned}$$

Example calculation for Maximum Load of 7,450 lb and Attachment (Thumb and coupler etc) weight of 1,800 lb.

$$\begin{aligned}
 \text{Load with pin-on (Bucket + Payload)} &= \text{Bucket weight} + \text{Payload (Bucket capacity} \times \text{Material density)} + \text{Attachment weight} \\
 &= 1,708 \text{ lb} + (1.36 \text{ yd}^3 \times 2,800 \text{ lb/yd}^3) + 1,800 \text{ lb} \\
 &= 7,316 \text{ lb} < \text{Maximum Load } 7,450 \text{ lb} \text{ ---> OK (Up to } 2,800 \text{ material density can be used)}
 \end{aligned}$$



EQUIPMENT

ZX250LC-7H

● : Standard equipment ○ : Optional equipment

ENGINE	ZX-7H 250LC
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	ZX-7H 250LC
Auto power lift	●
ConSite OIL (sensor)*	●
Control valve with main relief valve	●
Equipment package for lifting objects	○
High mesh full flow filter	●
Hose rupture valve for arm	○
Hose rupture valve for boom	○
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	ZX-7H 250LC
Auto control air conditioner	●
AUX function lever (breaker)	●
AUX function lever (breaker assist)	○
Bluetooth® integrated radio	●
Cab : All-weather sound suppressed steel	●
Cab : CRES VII (center pillar reinforced structure)	●
Cab : OPG top guard Level I (ISO 10262 : 1998) compliant	●
Cab : ROPS (ISO 12117-2 : 2008) compliant	●
Console height adjustment	●
Control lever auto-lock	●
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 guard : OPG Level II (ISO 10262 : 1998) compliant	○
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	●
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)	●
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)	●
Top guard : OPG Level II (ISO 10262 : 1998) compliant	○
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	●

EQUIPMENT

ZX250LC-7H

● : Standard equipment ○ : Optional equipment

MONITOR SYSTEM	ZX-7H 250LC
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	ZX-7H 250LC
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	ZX-7H 250LC
AERIAL ANGLE (270-degree view camera system)	●
Batteries 2 x 88 Ah	●
Body top handrail	●
Control pattern changer (ISO / BH)	●
Counterweight 13,669 lb (6,200 kg)	●
Electric fuel refilling pump with auto stop and filter	●
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	●

MISCELLANEOUS	ZX-7H 250LC
ConSite	○
Global e-Service	●
Onboard information controller	●
Satellite communication device	○
Standard tool kit	●
Travel alarm	●

UNDERCARRIAGE	ZX-7H 250LC
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	ZX-7H 250LC
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	ZX-7H 250LC
Accessories for 2 speed selector	○
Additional pump (13.2 gal (50 L)/min)	○
Assist piping	○
Breaker and crusher piping (Short piping)	○
Breaker and crusher piping	●
Pilot accumulator	○
Quick coupler piping	○

QUICK LINKS	ZX250LC-7H
Website's Product Page	

Standard and optional equipment may vary by country, so please consult authorized dealer for details.
* Engine oil and hydraulic oil monitoring sensor.

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