

HITACHI

SuperEX EX150LC

Rated Engine HP: 74 kW (100 PS)

Operating Weights: 15 000 kg (33 080 lb)

Bucket Capacity

PCSA Heaped: 0.52-0.82 m³ (0.68-1.07 yd³)

CECE Heaped: 0.45-0.70 m³



The Quest for Real Value: The Super EX-V

Technological advances are limitless. The Quest for Real Value - That's Hitachi's new challenge.

The result is the Super EX-V, featuring the responsiveness of human-touch controls, agile movements, powerful travel through upper-class track components, operator-first cab, and an environmentally-friendly design.

hydraulic excavator, which reduces lifetime costs.

The advent of the Hitachi hydraulic excavator with real value...just the beginning of Hitachi's next giant stride.

Super EX-V EX150LC



Quick-Responding Control Enhances Easy, Productive Operation.

1 The Advanced Hydraulic System — a Hitachi original—the Heart of the Super EX-V.

Here's versatility...a phase of real value. The advanced hydraulic system provides impressive versatility, allowing a variety of operations, such as digging, grading, finishing, and materials handling with power and speed.

This hydraulic system provides:

- Smooth operations.
- Matched combined operations.
- Reduces operator fatigue.

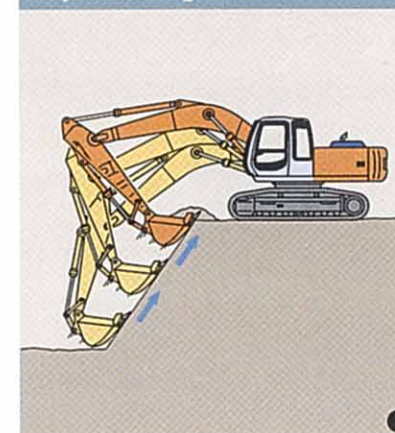
In other words, the Super EX-V delivers superior combined operations, quick level finishing, nimble slope tamping, and simple positioning for demolition, as well as straight-line travel and accurate steering

2 H/P Mode for More Productivity

When powre is needed, select the H/P mode. This automatically boosts engine output to 74kW (100PS) from 76kW (104PS) for increased productivity in heavy-duty operations. In light-duty, such as swing or dumping, engine output is reduced automatically to 74kW (100PS) for fuel savings.

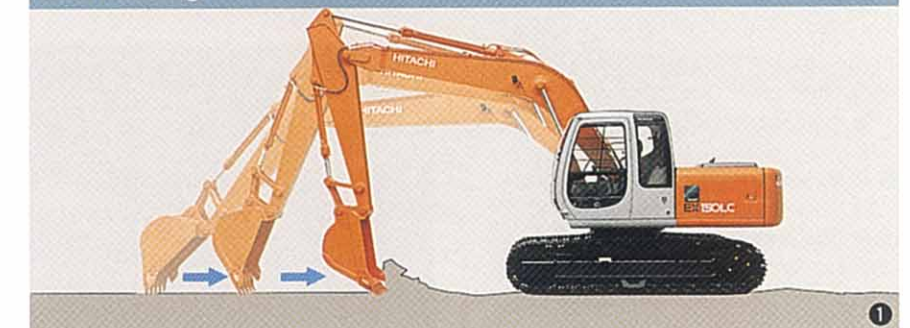
Pressing the power boost switch further yields a boost of power.

Slope Finishing



• Smooth front control

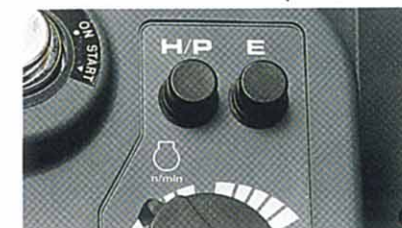
Level Finishing



• Increased finishing speed

2 E Mode for Reduced Fuel Consumption

In light-duty operation, when the E mode is selected, engine speed is reduced for fuel savings. This enhances fuel-efficient operation.



3 Four Work Modes for Increased Productivity

- 1 General Purpose Mode: For efficient excavation.
- 2 Grading Mode: The arm rolls in slowly and powerfully and rolls out quickly for efficient grading.
- 3 Precision Mode: For precision finishing.
- 4 Attachment Mode: Oil flow is adjusted to the special attachment in use, such as a hydraulic breaker.



4 Enhanced Stability and Durability

The front attachment can stop smoothly through the use of advanced machanisms-control valves, pilot sensors, and boom regenerative circuit. Stability is enhanced with upper-class track components and weight-added counterweight. Over-side stability, for example, is improved even with the 2 490 mm(8' 2") undercarriage width for mobility.

5 Boom Regenerative Machanism

Positive movements of the boom are enabled by the boom regenerative mechanism. In short, the pressurized oil is fed back to the rod end of the boom cylinder while reducing the return oil from the boom.

6 Generous Swing Torque

Swing torque is increased by using the new-type swing motor and high hydraulic oil pressure. This smooths swing starting and improved swing ability on gradients.

7 Ample Traction Force

Powerful, stable travel can be achieved with new-type large travel motors and high pressure hydraulic oil.

Operator Comfort Creates Higher Productivity.

● Roomy Cab with Superior Visibility

The operator's cab is spacious, with ample space for legs. The retractable wiper and large overhead window help increase visibility.

① Ergonomically Arranged Controls

Controls are arranged logically for easy operation. Monitors and switches are placed at the front right position, and engine controls to the right of the operator's seat. Switches are easy to read, and the fuel throttle is dial type.

② 6 Fluid-Filled Elastic Mounts

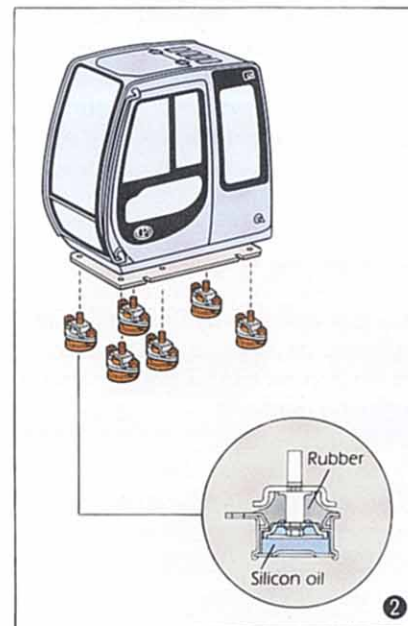
Cab shocks and vibration are dampened with 6 fluid-filled elastic mounts in place of a conventional 4-point mount. This reduces operator's fatigue.

● Glove Compartment and Hot-and-Cool Box

A glove compartment (standard) is provided behind the operator's seat for operator convenience. A hot-and-cool box (option) is available.



Show in this photo is fitted with optional equipment.



④ Tilt-type Seat Cushion and Three-stage Adjustable Controls

The front part and the rear part of the seat cushion can be adjusted up and down independently to help the operator find the most comfortable operating position. Also, the controls can be adjusted in three stages to fit each operator.

③ Fresh Air Type Large-Capacity Air-Conditioner is Optionally Available

Operator comfort is further enhanced with an air-conditioner with ample capacity, 1.5 times that of the previous model, and rotatable blower louvers also serve as defrosters. Thus, rapid air-conditioning can be achieved for operator comfort.



Operator-and Environmentally-Friendly Design Enhances Simplified Maintenance and Reliability

① Low Noise Design

The newly developed low-noise pump and large-sized muffler are employed to eliminate irritating high-pitch noise.

● Noise Level at Operator's ear: 70 dB (A)

● Noise Level at 7 m (23' 0") away: 70 dB (A)

② Evacuation Tool and Large Overhead Window

An evacuation tool is provided for emergency evacuation. A large overhead window can be used as an emergency exit.

③ Easy Maintenance Permitted by HN Bushings

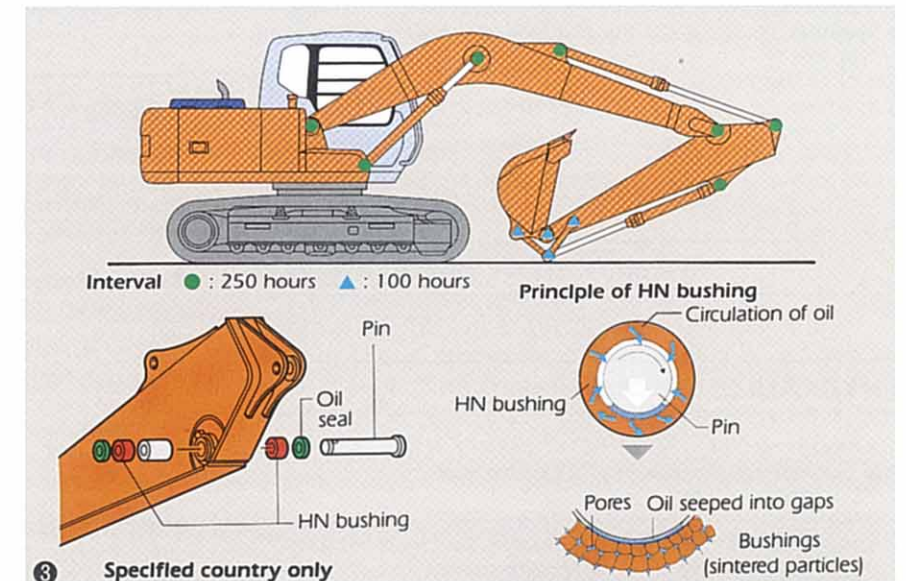
The HN bushings are made of a sintered composite iron alloy with high-viscosity lubricating oil vacuum impregnated in micron-sized pores. They are carburized for reliable and curable. (Specified country only)



● Brushless alternator (Generator)



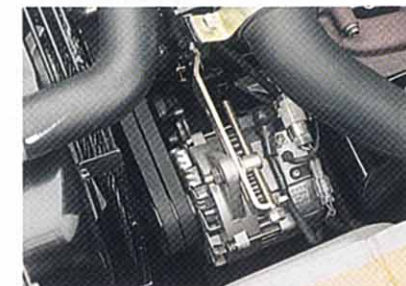
● Large handrail



③ Specified country only

④ Durable Undercarriage

Tracks are durable through the use of upper-class track components-track links, front idlers, upper/lower rollers, and track center guard.

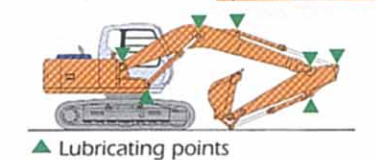


● Track frame and front idlers

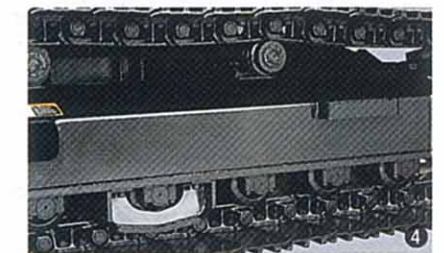


⑤ Auto Lubrication System (Option)

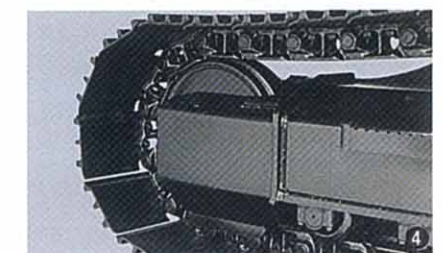
Auto lubrication eases daily maintenance at: the boom and arm pins.



▲ Lubricating points



● Track center guard



● Track frame and front idlers

ENGINE

Model	Isuzu A-4BG1T
Type	4-cycle, water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	4
Rated flywheel horsepower	74 kW (100 PS) at 2 150 min ⁻¹ (rpm)
(DIN 6271, net)	
Rated flywheel horsepower	74 kW (99 HP) at 2 150 min ⁻¹ (rpm)
(SAE J1349, net)	
Maximum torque	353 N·m (36 kgf·m, 260 lbf·ft) at 1 600 min ⁻¹ (rpm)
Piston displacement	4.329 L (264 in ³)
Bore and stroke	105 mm × 125 mm (4.13" × 4.92")
Batteries	2 × 12 V, 65 AH
Governor	Mechanical, speed control with stepping motor

HYDRAULIC SYSTEM

● Work mode selector
General purpose mode/Grading mode/Precision mode/Attachment mode

Main pump	2 variable displacement axial piston pumps
Maximum oil flow	2 X 126 L/min (33.3 US gpm, 27.7 Imp gpm)
Pilot pump	1 gear pump
Maximum oil flow	23 L/min (6.1 US gpm, 5.1 Imp gpm)

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Swing circuit	31.9 MPa (325 kgf/cm ² , 4 620 psi)
Travel circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Pilot circuit	3.7 MPa (38 kgf/cm ² , 540 psi)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in all cylinders to absorb shock at stroke ends.

Dimensions

	Qty	Bore	Rod diameter
Boom	2	110 mm (4.33")	80 mm (3.15")
Arm	1	115 mm (4.53")	85 mm (3.35")
Bucket	1	105 mm (4.13")	75 mm (2.95")

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in suction line, and 10 μm full-flow filters in return line and swing/travel motor drain lines.

CONTROLS

Pilot controls. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit.
Implement levers 2
Travel levers with pedals 2

UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Mechanism

Axial piston motor with planetary reduction gear is bathed in oil.

Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed 13.2 min⁻¹ (rpm)

Operator's Cab

Independent roomy cab, 1 005 mm (40") wide by 1 665 mm (66") high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) are openable. Adjustable, reclining seat with armrests; movable with or without control levers.

*International Standardization for Organization

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using carefully 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. Flat and triangular shoes also available. 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 roller	2
Lower rollers	7
Track shoes	43
Track guard	1

Traction Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel. Automatic transmission system: High-Low.

Travel speeds High: 0 to 5.3 km/h (3.3 mph)
Low: 0 to 3.1 km/h (1.9 mph)

Maximum traction force 131 kN (13 400 kgf, 29 550 lbf)
Gradeability 35° (70%) continuous

WEIGHTS AND GROUND PRESSURE

Equipped with 5.10 m (16'9") boom, 2.58 m (8'6") arm and 0.63 m³ (0.82 yd³: PCSA heaped) bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	500 mm (20")	15 000 kg (33 080 lb)	52 kPa (0.53 kgf/cm ² , 7.54 psi)
	600 mm (24")	15 200 kg (33 520 lb)	43 kPa (0.44 kgf/cm ² , 6.26 psi)
	700 mm (28")	15 400 kg (33 960 lb)	37 kPa (0.38 kgf/cm ² , 5.40 psi)
Flat	600 mm (24")	16 000 kg (35 280 lb)	43 kPa (0.44 kgf/cm ² , 6.26 psi)
	760 mm (30")	16 300 kg (35 940 lb)	34 kPa (0.35 kgf/cm ² , 4.98 psi)
Triangular	760 mm (30")	16 300 kg (35 940 lb)	34 kPa (0.35 kgf/cm ² , 4.98 psi)

Weights of the basic machines (including 2 800 kg (6 170 lb) counterweight and triple grouser shoes, excluding front-end attachment, fuel, Hyd. oil, Eng. oil and coolant etc.) are:

EX150LC-5 11 800 kg (26 120 lb) with 500 mm (20") shoes.

Buckets

Capacity		Width		No. of teeth	Weight	Recommendation		
PCSA heaped	CECE heaped	Without side cutters	With side cutters			EX150LC-5		
						2.01 m (6'7") arm	2.58 m (8'6") arm	3.10 m (10'2") arm
0.52 m ³ (0.68 yd ³)	0.45 m ³	790 mm (2'7")	910 mm (3'0")	4	470 kg (1 040 lb)	○	○	○
0.63 m ³ (0.82 yd ³)	0.55 m ³	920 mm (3'0")	1 040 mm (3'5")	5	520 kg (1 150 lb)	○	○	*○
0.70 m ³ (0.92 yd ³)	0.60 m ³	1 000 mm (3'3")	1 120 mm (3'8")	5	540 kg (1 190 lb)	○	○	*□
0.82 m ³ (1.07 yd ³)	0.70 m ³	1 140 mm (3'9")	1 260 mm (4'2")	5	590 kg (1 300 lb)	○	□	—
*1 0.63 m ³ (0.82 yd ³)	0.55 m ³	920 mm (3'0")	1 040 mm (3'5")	5	610 kg (1 350 lb)	○	○	*○
*1 0.70 m ³ (0.92 yd ³)	0.60 m ³	1 000 mm (3'3")	1 120 mm (3'8")	5	640 kg (1 410 lb)	○	○	*□
V-Type bucket: 0.40 m ³ (0.52 yd ³ : CECE heaped)				3	530 kg (1 170 lb)	○	○	○
One-point ripper				1	545 kg (1 200 lb)	●	—	—
Slope-finishing blade: Width-1 000 mm (3'3"), Length-2 000 mm (6'7")					586 kg (1 290 lb)	◇	◇	◇

* With 700 mm (28") shoes only

*1 Reinforced bucket

SERVICE REFILL CAPACITIES

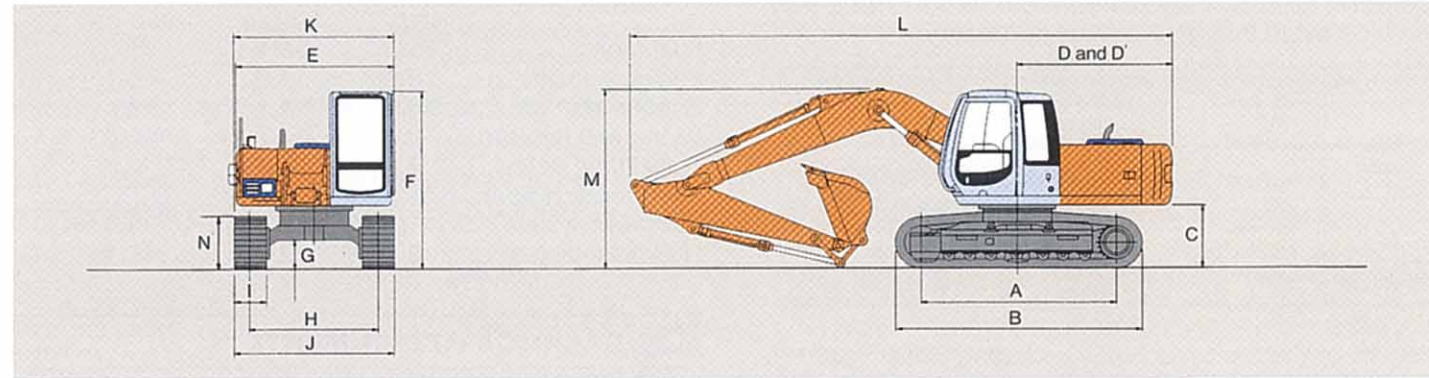
	liters	US gal	Imp gal
Fuel tank	250	66.1	55.0
Engine coolant	18.4	4.9	4.1
Engine oil	16.2	4.3	3.6
Swing mechanism	8.2	2.2	1.8
Travel final drive device (each side)	3.5	0.9	0.8
Hydraulic system	150	39.6	33.0
Hydraulic tank	87	23.0	19.1

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 5.10 m (16'9") boom, and 2.01 m (6'7"), 2.58 m (8'6") and 3.10 m (10'2") arms are available. Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

- Suitable for materials with density of 2 000 kg/m³ (3 370 lb/yd³) or less
- Suitable for materials with density of 1 600 kg/m³ (2 700 lb/yd³) or less
- Suitable for materials with density of 1 100 kg/m³ (1 850 lb/yd³) or less
- Heavy-duty service
- ◇ Slope finishing service
- Not recommended

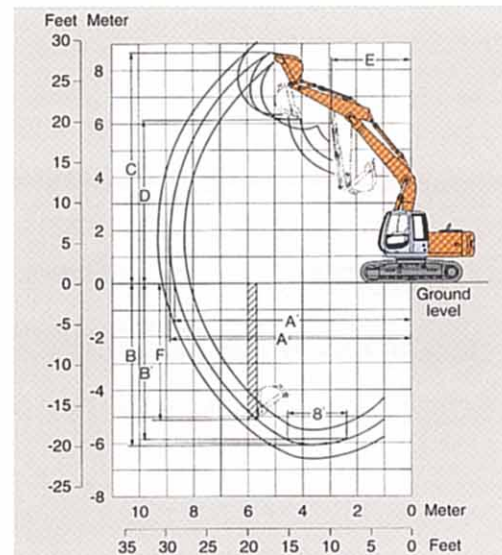
DIMENSIONS



EX150LC-s					
A Distance between tumbler	3 100 mm (16' 2")				
B Undercarriage length	3 920 mm (12' 10")				
*C Counterweight clearance	920 mm (3' 0")				
D Rear-end swing radius	2 440 mm (8' 0")				
D' Rear-end length	2 440 mm (8' 0")				
E Overall width of upperstructure	2 460 mm (8' 1")				
F Overall height of cab	2 800 mm (9' 2")				
*G Min. ground clearance	460 mm (1' 6")				
H Track gauge	1 990 mm (6' 6")				
I Track shoe width	G 500 mm (20")	G 600 mm (24")	G 700 mm (28")	F 600 mm (24")	T 760 mm (30")
J Undercarriage width	2 490 mm (8' 2")	2 590 mm (8' 6")	2 690 mm (8' 10")	2 590 mm (8' 6")	2 750 mm (9' 0")
K Overall width	2 500 mm (8' 2")	2 590 mm (8' 6")	2 690 mm (8' 10")	2 590 mm (8' 6")	2 750 mm (9' 0")
L Overall length					
With 2.01 m (6' 7") arm	8 620 mm (28' 3")				
With 2.58 m (8' 6") arm	8 540 mm (28' 0")				
With 3.10 m (10' 2") arm	8 550 mm (28' 1")				
M Overall height of boom					
With 2.01 m (6' 7") arm	3 020 mm (9' 11")				
With 2.58 m (8' 6") arm	2 800 mm (9' 2")				
With 3.10 m (10' 2") arm	3 040 mm (9' 7")				
N Track height					
With triple grouser shoe	870 mm (2' 10")				

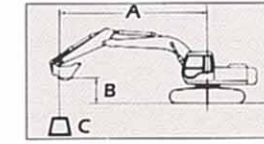
*Excluding track shoe lug. G:Triple grouser shoe
F:Flat shoe

WORKING RANGES



Unit:mm (ft in)			
Arm length	EX150LC-s		
	2.01 m (6' 7")	2.58 m (8' 6")	3.10 m (10' 2")
A Max. digging reach	8 360 (27' 5")	8 900 (29' 2")	9 360 (30' 9")
A' Max. digging reach (on ground)	8 180 (26' 10")	8 710 (28' 7")	9 180 (30' 1")
B Max. digging depth	5 480 (18' 0")	6 050 (19' 10")	6 550 (21' 6")
B' Max. digging depth (B' level)	5 180 (17' 0")	5 800 (19' 0")	6 330 (20' 9")
C Max. cutting height	8 480 (27' 10")	8 820 (28' 11")	9 060 (29' 9")
D Max. dumping height	5 810 (19' 1")	6 100 (20' 0")	6 340 (20' 10")
E Min. swing radius	3 250 (10' 8")	2 910 (9' 7")	2 920 (9' 7")
F Max. vertical wall	4 330 (14' 2")	5 220 (17' 2")	5 750 (18' 10")
Bucket digging force	ISO	102 kN (10 400 kgf, 22 930 lbf)	
	SAE:PCSA	98 kN (9 200 kgf, 20 290 lbf)	
Arm crowd force	ISO	102 kN (10 400 kgf, 22 930 lbf)	68 kN (6 900 kgf, 15 210 lbf)
	SAE:PCSA	98 kN (10 000 kgf, 20 050 lbf)	66 kN (6 700 kgf, 14 770 lbf)

Excluding track shoe lug



A: Load radius
B: Load point height
C: Lifting capacity

METRIC MEASURE

EX150LC-s

Rating over-side or 360 degrees Rating over-front Unit: 1000 kg

Conditions	Load point height	Load radius										At max. reach					
		2 m		3 m		4 m		5 m		6 m		7 m		meter			
Boom 5.10 m Arm 2.01 m Bucket PCSA: 0.63 m ³ CECE: 0.60 m ³ Shoe 500 mm	6m									* 2.56	* 2.56			* 1.72	* 1.72	7.31	
	4m								* 3.31	* 3.31	2.49	* 3.18	1.85	* 2.91	1.36	* 1.71	8.21
	3m						4.70	* 4.79	3.26	* 4.00	2.39	* 3.58	1.80	2.97	1.25	* 1.76	8.42
	2m						4.33	* 6.24	3.07	* 4.79	2.28	3.76	1.74	2.90	1.20	* 1.86	8.49
	1m						4.05	7.08	2.91	4.90	2.18	3.65	1.68	2.83	1.19	* 1.99	8.41
	0 (Ground)						3.91	6.91	2.79	4.77	2.10	3.56	1.62	2.78	1.23	2.15	8.20
	-1m																
	-2m	* 5.28	* 5.28	* 6.17	* 6.17	3.86	6.85	2.73	4.70	2.05	3.50	1.59	2.74	1.33	2.31	7.83	
	-4m					4.00	* 6.64	2.80	4.78								
	Boom 5.10 m Arm 2.58 m Bucket PCSA: 0.63 m ³ CECE: 0.60 m ³ Shoe 500 mm	6m															
4m																	
3m																	
2m																	
1m																	
0 (Ground)																	
-1m																	
-2m																	
-4m																	

- Notes: 1. Ratings are based on SAE J1097.
2. Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.

METRIC MEASURE

EX150LC-s

Rating over-side or 360 degrees Rating over-front Unit: 1000 kg

Conditions	Load point height	Load radius										At max. reach				
		3 m		4 m		5 m		6 m		7 m		8 m		meter		
Boom 5.10 m Arm 3.10 m Bucket PCSA: 0.63 m ³ CECE: 0.60 m ³ Shoe 500 mm	6 m							* 2.57	* 2.57					* 1.56	* 1.56	7.85
	4 m							2.64	* 2.91	1.98	* 2.84			1.30	* 1.56	8.69
	3 m			* 4.06	* 4.06	3.44	* 3.61	2.53	* 3.33	1.92	3.10	1.48	* 2.32	1.21	* 1.60	8.88
	2 m			4.54	* 5.55	3.22	* 4.42	2.40	* 3.82	1.84	3.01	1.44	2.40	1.16	* 1.68	8.94
	1 m			4.19	* 6.85	3.02	5.03	2.28	3.76	1.77	2.93	1.39	2.35	1.15	* 1.79	8.88
	0 (Ground)			3.97	6.98	2.87	4.85	2.18	3.64	1.70	2.86	1.35	2.31	1.18	* 1.95	8.68
	-1 m	* 5.75	* 5.75	3.87	6.85	2.77	4.74	2.11	3.57	1.66	2.81	1.33	2.28	1.26	* 2.16	8.33
	-2 m	6.16	* 6.61	3.84	6.82	2.73	4.70	2.07	3.53	1.63	2.79			1.40	2.38	7.82
-4 m	6.38	* 9.12	3.95	6.95	2.79	4.76	2.13	3.59					2.17	* 3.06	6.08	

- Notes: 1. Ratings are based on SAE J1097.
 2. Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 3. The load point is a hook (not standard equipment) located on the back of the bucket.
 4. *Indicates load limited by hydraulic capacity.

SE STANDARD EQUIPMENT Standard equipment may vary by country, so please consult your Hitachi dealer for details.

ENGINE

- H/P mode control
- E mode control
- 40 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- Cartridge-type engine oil filter
- Air cleaner double element
- Cartridge-type engine oil bypass filter
- Cartridge type fuel filter
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system

- Full-flow filter
- Pilot filter

CAB

All-weather sound-suppressed steel cab equipped with reinforced, tinted (bronze color) glass windows, 6 fluid-filled elastic mounts, openable front windows-upper, and lower and left side windows with intermittent windshield retractable wipers, front window washer, adjustable reclining seat with adjustable armrests, footrest, electric double horn, auto-tuning radio with digital clock, auto-idle switch, seat belt, cigarette lighter, ashtray, parcel pocket, glove compartment, floor mat, heater, and pilot control shut-off lever.

HYDRAULIC SYSTEM

- Work mode selector
- Engine speed sensing system
- E-P control system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- Control valve with main relief valve
- Extra port for control valve
- Suction filter

MONITOR SYSTEM

- Meters:
 - Hourmeter, engine coolant temperature gauge and fuel meter.
- Warning lamps:
 - Alternator charge, engine oil pressure, engine overheat, air cleaner clog and minimum fuel level.
- Pilot lamps:
 - Engine preheat, engine oil level, engine coolant level and hydraulic

- oil level.
- Alarm buzzers:
 - Engine oil pressure and engine overheat.

LIGHTS

- 2 working lights

UPPERSTRUCTURE

- Undercover
- 2 800 kg (6 170 lb) counter-weight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Rearview mirror (right side)
- Swing parking brake

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- Track center guards
- Hydraulic track adjuster
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seals
- 500 mm (20") triple grouser shoes

FRONT ATTACHMENTS

- HN bushing (Specified country only)
- Bucket clearance adjust mechanism

- Centralized lubrication system
- Dirt seals on all bucket pins
- 2.58 m (8' 6") arm
- 0.63 m³ (0.82 yd³ : PCSA heaped) bucket

MISCELLANEOUS

- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes and handrails.

SE OPTIONAL EQUIPMENT Optional equipment may vary by country, so please consult your Hitachi dealer for details.

- Air conditioner
- Suspension seat
- AM-FM radio
- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamp
- Travel motion alarm device
- Additional pump
- Piping kit for extra valve port
- Additional valve with piping kit

- PTO valve with piping kit
- Auto-lubrication system
- Pre-cleaner
- Tropical cover
- Front glass lower guard
- 3 100 kg (6 840 lb) counterweight
- One-point ripper for ripping hardpan
- Slope-finishing blade for slope finishing jobs...scraping up or down, compacting, leveling, grading etc.

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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.

