

HITACHI

SUPER **EX330-V**

Rated Engine HP

228 hp (169 kW)

Max Power: 240 hp (179 kW)

Operating Weight

EX330LC: 71,649 lbs

(32 500 kg)

Bucket Capacity

1.50 – 2.43 yd³

(1.15 – 1.86 m³)



SUPER EX330-V

Model	Operating Weight	Travel Speeds	Lift Capacity	Gradeability	Traction Force
EX330LC	71,649 lbs (32 500 kg)	0 - 3.4 mph (0 - 5.5 km/h)	26,690 lbs (12 200 kg)	35° (70%)	54,674 lbf (24 800 kgf)



Putting Technology To Work

For years, the EX300 has been a popular choice among many contractors. Today's new EX330-5 delivers even better performance and durability with the added benefit of Hitachi's exclusive *Dash-5* computerized engine horsepower and pump oil flow control system. This system provides even better multi-function operation and smoother, faster control.

Specifics

- Isuzu B-6SD1T turbo-charged, direct injection diesel engine meets all EPA clean air requirements.
- *Dash-5* engine/hydraulic control with three power modes, a power boost button, and four work modes.
- Power modes:
 1. **Normal:** Standard operation.
 2. **H/P:** Increased engine rpm and horsepower.
 3. **E:** Maximum fuel efficiency in light duty applications.
- Work modes:
 1. General Purpose
 2. Grading
 3. Precision
 4. Attachment
- Cab mounted on six fluid-filled, vibration dampening, shock absorbing mounts.
- Compact travel motor design; protected piping reduces opportunity of damage.

Features

- The updated work modes provide power in the order of the inherent priority for the job at hand. For example, in the Grading Mode, the arm rolls in slowly and powerfully while rolling out quickly for efficient grading. The Attachment Mode provides automatically adjusted oil flow to meet the requirements of the attachment.
- The Super EX330, as with all Hitachi excavator models, is built to maximize performance, reliability, and operator comfort through optimum design and quality components. The Isuzu engine is matched to the hydraulic pump for outstanding multiple function performance. The undercarriage, carbody and front attachment are all balanced and designed for maximum strength. All of this means that your Hitachi EX330 will work economically and productively for years and for thousands of hours at minimum operating costs.

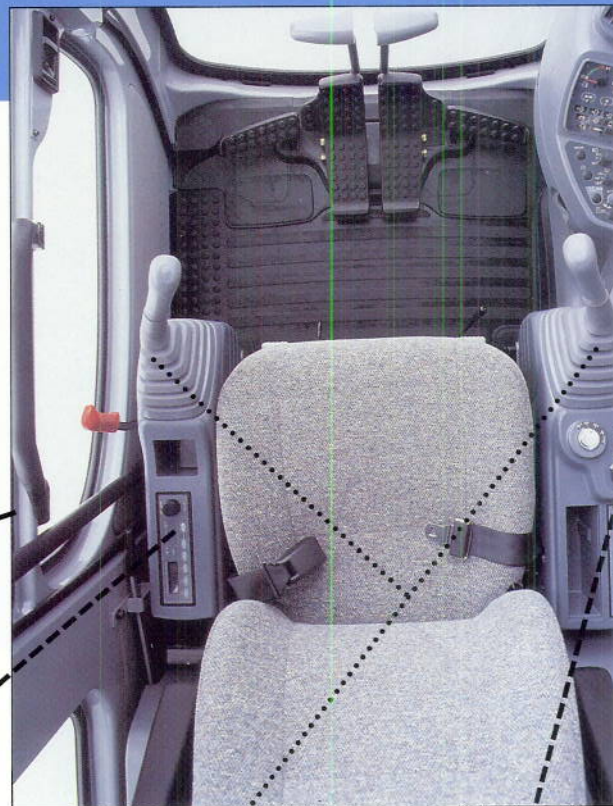


Operator Comfort:

A Top Priority

Sitting in one place, all day, operating a machine productively takes concentration and dedication to doing a good job. It also means that a smart owner is going to do everything possible to make sure his operator is comfortable in the cab. The Hitachi EX330 is an excellent example of how comfortable a well-designed cab can be.

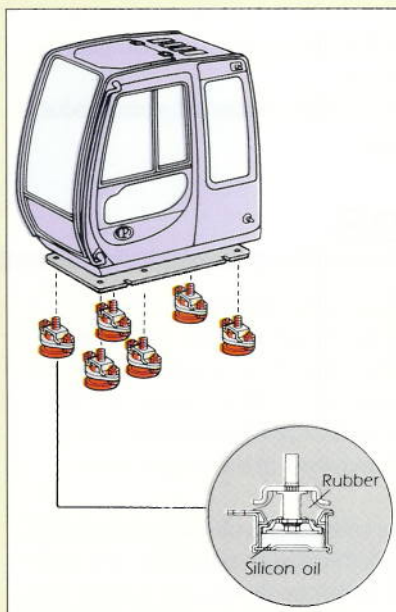
The widest cab in its class: 3 ft. 4 in. Lots of leg room, wide side door. The ergonomically-designed seat is fully adjustable with tilting armrests, tilting back, floating or solidly fixed seat, headrest tilt, and seat raise/lower.



AM-FM Radio

The hand control levers can be raised or lowered to match the operator's build, and the controls can either glide forward or back with the seat or remain fixed while the seat moves.

The work modes, power mode conditioning controls, and engine speed control are all located beside the operator.



The cab floats on six fluid-filled elastic mounts that smooth out shocks and jolts.



Air conditioning and a "Hot and Cool" box are standard on the EX330. The large capacity unit features front and rear rotatable louvers. Automotive-type controls blend hot and cold air to provide the perfect temperature.

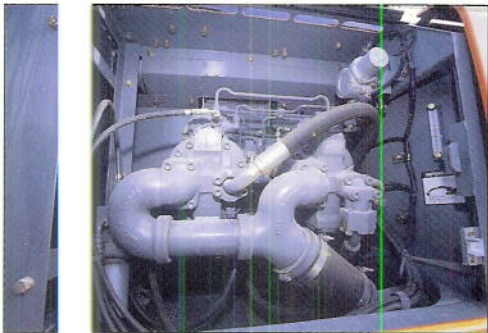


The wide operator's view makes safe, productive operation easier to accomplish. The front window is lower for improved downward visibility. The right side window is big and the overhead window is large.



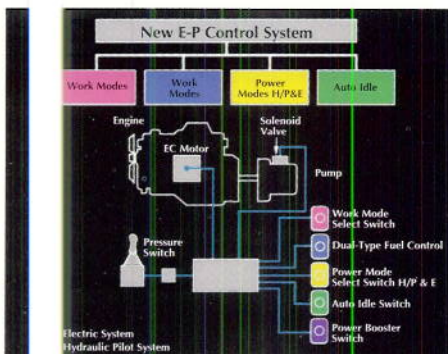
Isuzu 228 hp Engine Tough, Dependable

The updated Isuzu B-6SD1T engine meets or exceeds all EPA, CARB pollution and noise standards. It features a rated flywheel horsepower of 228 hp (169 kW) with a maximum horsepower of 240 hp (179 kW). Maximum torque is 643.7 lbf·ft (89 kg·m).



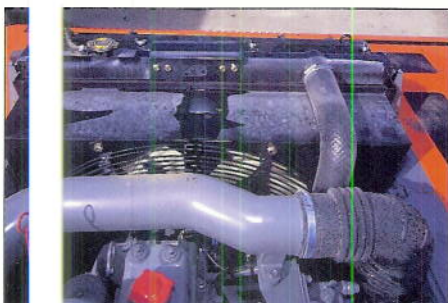
Bulkhead Separates Engine From Hydraulic Pumps

A steel bulkhead separates the hydraulic pumps and engine. It keeps engine and pump compartments cleaner for easier maintenance and helps to minimize noise generation.



Enhanced E-P Pump Control

A sophisticated micro-computer system guided by multiple actuators is exclusively standard on the EX330. Hitachi is renowned for the smooth operation of its excavators and this model is no exception. The new *Dash-5* controls provide quick, accurate response to multi-function swing-lift-bucket curl operations. A power boost feature is activated when the operator pushes a thumb button providing a brief 9% increase in bucket digging force and about a 10% increase in arm crowd force.



Enhanced Cooling Protection

The EX330 features a large 10.3 U.S. gallon (39 liter) radiator coolant capacity, a tightly fitting fan shroud and high capacity fan design. The engine is well-ventilated, including vents on the engine cover.

Work Modes For Increased Performance

The four work modes have been enhanced from prior models.

- ① The General Purpose Mode is appropriate for general digging and truck loading. All circuits work together.
- ② The Grading Mode provides priority to the combined operation of boom raise, stick forward and bucket adjustment while limiting control response so that the movement is smooth.
- ③ The Precision Mode keeps the front attachment moving precisely and slowly.
- ④ The Attachment Mode is designed to automatically match the oil flow requirements of selected attachments such as a hydraulic hammer. Additional piping is required (optional).



H/P and E Modes For Increased Efficiency

- The **Normal** mode is for normal or average applications. The engine runs at an efficient maximum speed for longest life and general economy. The hydraulic pump runs at a baseline 100%.
- The **H/P** mode provides the full power of the EX330 on command. This function boosts engine output by 5% when activated, increasing horsepower to 240 hp (179 kW) when needed.
 - Engine rpm automatically increases when the arm-in function meets resistance.
 - Automatically switches back to normal rpm and 228 hp (169 kW) when resistance is overcome for fuel savings.
- The **E** mode provides 94% of full power while providing 15% more fuel efficiency. It is appropriate for light-duty work because it allows you to work longer before refueling.



Power Boost At Your Thumb

A thumb-actuated power boost switch provides an additional 9% increase in bucket digging force and about a 10% increase in arm crowd force for about ten seconds in the **Normal**, **E** and **H/P** modes.





Great Machine Balance

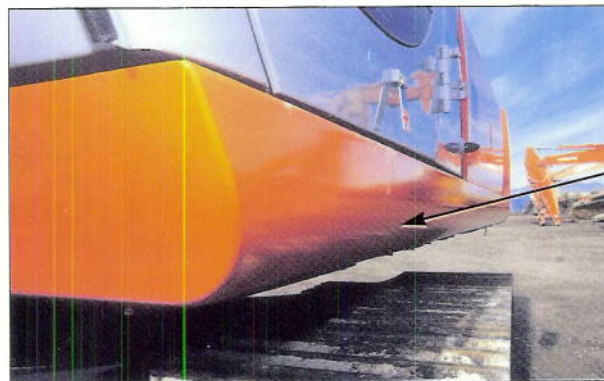
One of the EX330's secrets for operator acceptance is that the machine is so well balanced. It is easier to get fuller buckets faster with the EX330. This allows the operator to use all the power available. This outstanding balance makes the operator productive while giving a higher level of confidence and comfort.



Premium Quality Design and Manufacture

Hitachi excavators are designed to work smoothly and dependably. The EX330 features an excellent cab that is comfortable yet will withstand years of hard use. The carbody and undercarriage are rugged and require minimal maintenance.

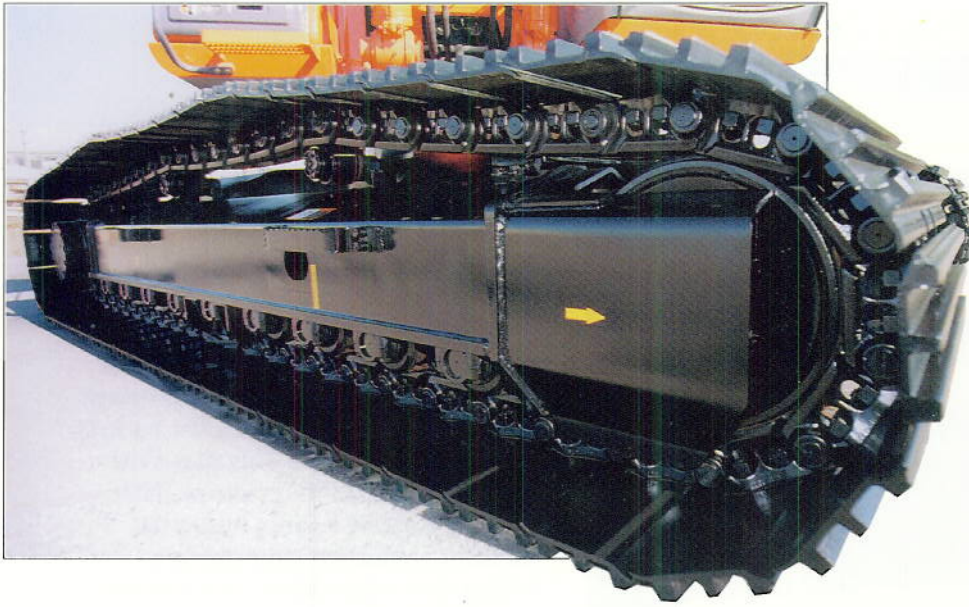
The Hitachi *Dash-5* models incorporate the best in ergonomic design and features to provide an outstanding package of productivity, reliability and lasting value.



"D" Section Frame

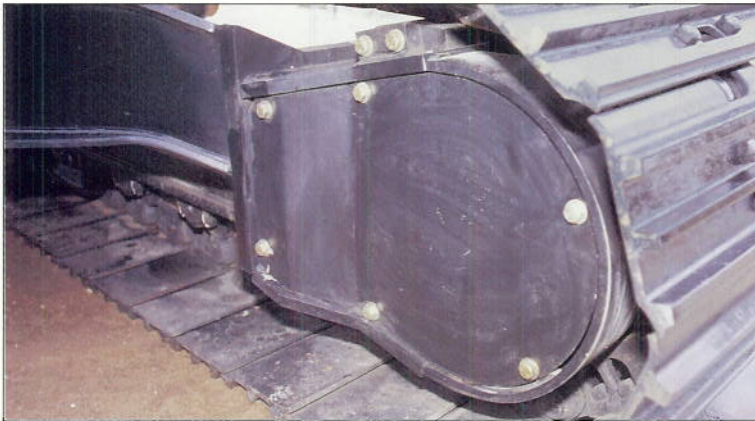
The "D" section frame is designed to resist deformation. It protects the upperstructure from damage due to lateral impacts during swing.

Long-Life, High-Hour Durability



Longer-Life Undercarriage

Hitachi undercarriages feature premium grade tracks with track links fitted with structural steel for added durability. Pin seals prevent dirt in the bushings and reduce inner wear. The tracks feature heavy-duty track links, front idlers, upper/lower rollers and track center guard.



Round Travel Motor Covers

Round travel motor covers provide a higher resistance to deformation.



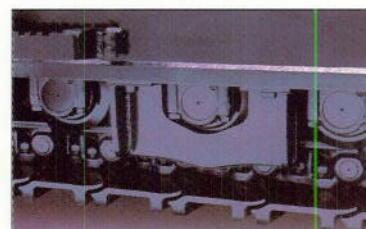
Rugged X-Frame

The tough tractor-type undercarriage and X-form center frame assure superb durability.



Round Hydraulic Tank

A round hydraulic tank provides superior circulation of the hydraulic oil so that it's kept cleaner and more evenly cooled.



Track Center Guard

Track center guard keeps track links engaged.

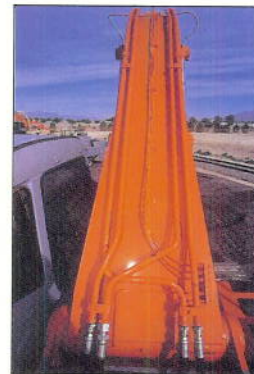
Reinforced Front Attachment

The boom is made of thickened plates at the boom foot and three inside bulkheads. The arm has thickened plates at its top, sides and bottom to increase ruggedness and to resist twisting.



Remote Lube

All lube points are clustered in three central areas.



Air Cleaner Stored Inside

An air cleaner, stored inside the upper-structure cover, allows simple replacement of elements from the ground.



Large Tool Box With Grease Gun Holder



Super Strong Piping

Hitachi is legendary for its strong, long-lasting hydraulic hose, piping and fittings. This provides outstanding reliability and cleanliness.

Perfectly Matched Hydraulic System

Hitachi expertly matches the engine to the hydraulic pumps and control valves for the best response and longest life possible. The pumps are designed to work specifically with the Isuzu engine – regardless of rpm or work load.



Specifications: EX330

Engine

Model	Isuzu B-6SD1T
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	6
Rated flywheel horsepower (Standard Mode, SAE J1349 gross) ..	228 hp (169 kW) at 1,900 rpm (min ⁻¹)
Rated flywheel horsepower (H/P Mode, SAE J1349 gross).....	240 hp (179 kW) at 2,000 rpm (min ⁻¹)
Maximum torque	643.7 lbf·ft (89 kgf·m) at 1600 rpm (min ⁻¹)
Piston displacement.....	.600 in ³ (9.839 L)
Bore and stroke	4.7" x 5.7" (120 mm x 145 mm)
Batteries	2 x 12 V, 120 AH
Governor	Mechanical, speed control with stepping motor

Hydraulic System

- Work mode selector: General purpose mode / Grading mode / Precision mode / Attachment mode
 - Engine speed sensing system
- | | |
|------------------------|--|
| Main pumps | 2 variable displacement axial piston pumps |
| Maximum oil flow | 2 x 68.7 US gpm
(260 L/min, 57.2 Imp gpm) |
| Pilot pump | 1 gear pump |
| Maximum oil flow | 9.0 US gpm
(34 L/min, 7.5 Imp gpm) |

Hydraulic Motors

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

Relief Valve Settings

Implement circuit	4,550 psi (320 kgf/cm ²)
Swing circuit	4,125 psi (290 kgf/cm ²)
Travel circuit	4,980 psi (350 kgf/cm ²)
Pilot circuit	500 psi (35 kgf/cm ²)
Power boost	4,980 psi (350 kgf/cm ²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms are provided in all cylinders to absorb shock when pistons reach their stroke ends.

Dimensions

	Qty	Bore	Rod diameter
Boom	2	5.91" (150 mm)	4.13" (105 mm)
Arm	1	6.69" (170 mm)	4.53" (115 mm)
Bucket	1	5.71" (145 mm)	3.74" (95 mm)

Hydraulic Filters

Hydraulic circuits use high quality hydraulic filters. A suction filter is incorporated in the suction line, and 10 micron full-flow filters in the 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. Hydraulic warm-up control system for engine and hydraulic oil.

Implement levers	2
Travel levers with pedals	2

Upperstructure

Revolving Frame

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

Swing Mechanism

Axial piston motor with planetary reduction gear is bathed in oil. Single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing pinion is spring-set/hydraulic-released disc type.

Swing speed	11.3 min ⁻¹
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Operator's Cab

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

* International Standardization Organization

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. Flat shoes are also available. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing springs.

Numbers of Rollers and Shoes on Each Side

Upper rollers	2
Lower rollers	9 EX330LC
Track shoes	48 EX330LC
Track guard	2 EX330LC

Traction Device

Each track driven by 2-speed axial piston motor through planetary gear for counter rotation of the tracks. Sprockets are replaceable. Travel shockless relief valve is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel, ensuring smooth tops.

Automatic transmission system:	High - Low.
Travel speeds	High: 0 to 3.4 mph (5.5 km/h) Low: 0 to 2.2 mph (3.6 km/h)

Maximum traction force	54,674 lbf (24 800 kN)
Gradeability	35° (70%) continuous

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.

Weights and Ground Pressure

Equipped with 21' 0" (6.40 m) boom, 10' 6" (3.20 m) arm and 1.83 yd³ (1.40 m³): PCSA heaped) bucket.

EX330LC

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	24" (600 mm)	69,400 lb (31 500 kg)	8.5 psi (0.60 kgf/cm ²)
	28" (700 mm)	70,800 lb (32 100 kg)	7.5 psi (0.53 kgf/cm ²)
	31" (800 mm)	71,700 lb (32 500 kg)	6.7 psi (0.47 kgf/cm ²)

Weights of basic machines (including 14,991 lb (6 800 kg) counterweight and triple grouser shoe) excluding front-end attachment, fuel, hydraulic oil, engine oil, and coolant etc:

EX330LC 69,200 lb (31 400 kg)
with 31" (800 mm) shoes

Buckets

Capacity	Width			No. of teeth	Weight
	CECE heaped	Without side cutters	With side cutters		
PCSA heaped					
1.50 yd ³ (1.15 m ³)	1.00 m ³	3'7" (1 100 mm)	4'0" (1 230 mm)	5	2,150 lb (970 kg)
1.80 yd ³ (1.38 m ³)	1.20 m ³	4'2" (1 280 mm)	4'8" (1 410 mm)	5	2,380 lb (1 080 kg)
2.12 yd ³ (1.62 m ³)	1.40 m ³	4'9" (1 460 mm)	5'3" (1 600 mm)	5	2,540 lb (1 150 kg)
2.43 yd ³ (1.86 m ³)	1.60 m ³	5'5" (1 640 mm)	-	5	2,360 lb (1 070 kg)
*1 1.80 yd ³ (1.40 m ³)	1.20 m ³	4'2" (1 280 mm)	4'8" (1 410 mm)	5	2,840 lb (1 290 kg)
*2 1.50 yd ³ (1.15 m ³)	1.00 m ³	3'10" (1 160 mm)	-	5	2,780 lb (1 260 kg)
*3 1.80 yd ³ (1.38 m ³)	1.20 m ³		5'5" (1 340 mm)	3	2,710 lb (1 230 kg)
One point rip				1	1,880 lb (850 kg)
Clamshell bucket	1.78 yd ³ (1.60 m ³): CECE heaped)		Width: 3'1" (940 mm)	8	2,730 lb (1 240 kg)

*1 Reinforced bucket

*2 Rock bucket

*3 Level-pin-reinforced bucket



Service Refill Capacities

	US gal	Liters	Imp gal
Fuel tank	148.0	560.0	123.2
Engine coolant	10.3	39.0	8.6
Engine oil	9.2	35.0	7.7
Swing mechanism	4.5	17.0	3.7
Travel final device (each side)	2.4	9.2	2.0
Hydraulic system	84.5	320.0	70.4
Hydraulic tank (Reference oil level)	70.0	265.0	58.3



Backhoe Attachments

Boom and arms are of welded, box-section design.

Boom Length: 21' 0" (6.40 m)

Arms available in lengths: 8'9" (2.66 m)

10'6" (3.20 m)

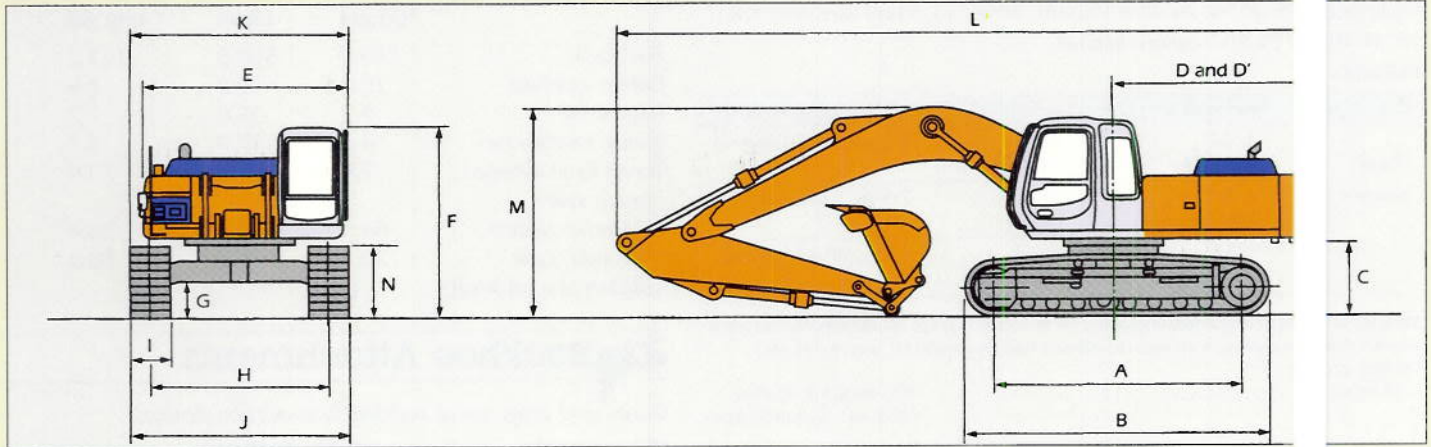
13'1" (4.00 m)

Bucket is of welded steel structure. Side clearance adjustment mechanism provided on the bucket joint.

Specifications: EX330

EX330/EX330LC

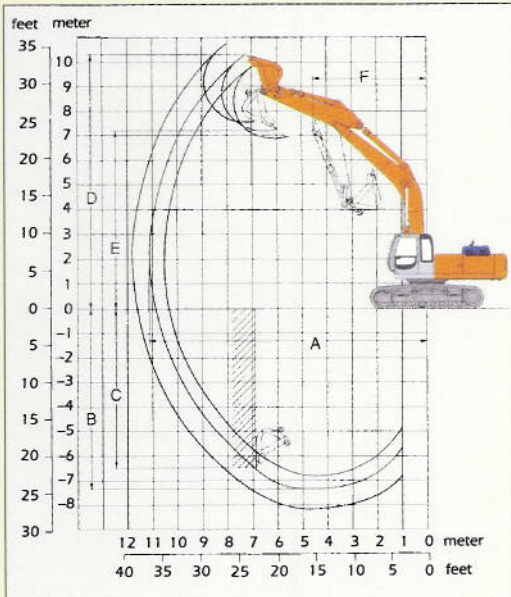
Dimensions



	EX330	EX330LC	
A	Distance between tumblers	12'3" (3 730 mm)	13'3" (4 050 mm)
B	Undercarriage length	15'3" (4 640 mm)	16'3" (4 950 mm)
C	Counterweight clearance	3'9" (1 140 mm)	3'10" (1 160 mm)
D	Rear-end swing radius	10'10" (3 290 mm)	10'10" (3 300 mm)
D'	Rear-end length	10'10" (3 290 mm)	10'10" (3 290 mm)
E	Overall width of upperstructure	9'10" (2 995 mm)	9'10" (2 995 mm)
F	Overall height of cab	10'2" (3 110 mm)	10'3" (3 130 mm)
*G	Min. ground clearance	1'8" (500 mm)	1'8" (500 mm)
H	Track gauge	8'6" (2 590 mm)	8'6" (2 590 mm)
I	Track shoe width	G 31" (800 mm)	G 31" (800 mm)
J	Undercarriage width	11'1" (3 390 mm)	11'1" (3 390 mm)
K	Overall width	10'6" (3 190 mm)	11'1" (3 390 mm)
L	Overall length		
	With 8'9" (2.66 m) arm	36'4" (11 070 mm)	36'4" (11 070 mm)
	With 10'6" (3.20 m) arm	35'10" (10 930 mm)	35'10" (10 930 mm)
	With 13'1" (4.00 m) arm	36'2" (11 030 mm)	36'2" (11 030 mm)
M	Overall height to top of boom		
	With 8'9" (2.66 m) arm	11'5" (3 470 mm)	11'5" (3 470 mm)
	With 10'6" (3.20 m) arm	10'6" (3 210 mm)	10'6" (3 210 mm)
	With 13'1" (4.00 m) arm	11'9" (3 570 mm)	11'9" (3 570 mm)
N	Track height		
	With triple grouser shoes	3'4" (1 020 mm)	3'4" (1 020 mm)

*Excluding track shoe lug G: Triple grouser shoe

Working Ranges



		EX330/EX330LC		
Arm length		8'9" (2.66 m)	10'6" (3.20 m)	13'1" (4.00 m)
A	Max. digging reach	34'8" (10 570 mm)	36'5" (11 100 mm)	38'11" (11 810 mm)
*B	Max. digging depth	22'6" (6 850 mm)	24'3" (7 380 mm)	26'10" (8 080 mm)
*C	Max. vertical cutting	18'5" (5 620 mm)	21'3" (6 480 mm)	24'2" (7 280 mm)
*D	Max. cutting height	32'5" (9 870 mm)	33'7" (10 230 mm)	34'10" (10 620 mm)
*E	Max. dumping height	22'5" (6 830 mm)	32'9" (9 980 mm)	33'7" (10 280 mm)
F	Min. front swing radius	15'0" (4 580 mm)	14'9" (4 490 mm)	14'10" (4 510 mm)
Bucket digging force	ISO	49,000 lbf (22 200 kgf)	53,400 lbf ** (24 200 kgf)	
	SAE: PCSA	42,600 lbf (19 300 kgf)	46,500 lbf ** (21 100 kgf)	
Arm crowd force	ISO	35,300 lbf (16 000 kgf)	38,600 lbf ** (17 500 kgf)	
	SAE: PCSA	34,000 lbf (15 400 kgf)	37,000 lbf ** (16 800 kgf)	

* Excluding track shoe lug ** At Power Boost

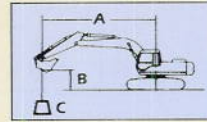
Lifting Capacities: EX330

EX330LC

Rating over side or 360 degrees

Rating over front

Unit Measure:
1,000 lb
(1 000 kg)



a: Load radius
b: Load height
c: Lift capacity

Boom 21' (6.40 m) Arm 10' 6" (3.20 m) Bucket PCSA: 1.83 yd³ (1.40 m³) Shoes 24" (600 mm)																
Load point height	Load radius										At max. reach					
	13.12 ft (4.0 m)		16.40 ft (5.0 m)		19.69 ft (6.0 m)		22.97 ft (7.0 m)		26.25 ft (8.0 m)		29.53 ft (9.0 m)		ft (m)			
19.69 ft (6.0 m)										11.51 (5.2)	13.40 (6.1)	9.02 (4.1)	11.07 (5.0)	7.10 (3.2)	7.43 (3.4)	33.14' (10.1)
13.12 ft (4.0 m)					17.86 (8.1)	18.41 (8.4)	13.78 (6.3)	16.38 (7.4)	10.89 (6.8)	15.04 (6.8)	8.71 (4.0)	14.13 (6.4)	6.13 (2.8)	7.63 (3.5)	34.78' (10.6)	
6.56 ft (2.0 m)			20.70 (9.4)	30.42 (13.8)	15.87 (7.2)	23.81 (10.8)	12.52 (5.7)	19.84 (9.0)	10.05 (4.6)	17.00 (7.7)	8.18 (3.7)	13.93 (6.3)	5.82 (2.6)	8.22 (3.7)	35.10' (10.7)	
0 ft (Ground)			19.29 (8.8)	24.69 (11.2)	14.66 (6.7)	25.79 (11.7)	11.60 (5.3)	20.13 (9.1)	9.39 (4.3)	16.27 (7.4)	7.72 (3.5)	13.45 (6.1)	6.11 (2.8)	9.37 (4.3)	33.79' (10.3)	
-6.56 ft (-2.0 m)	22.71 (10.3)	22.71 (10.3)	19.16 (8.7)	27.34 (12.4)	14.33 (6.5)	25.35 (11.5)	11.24 (5.1)	19.73 (9.0)	9.10 (4.1)	15.94 (7.2)	7.54 (3.4)	13.27 (6.0)	7.19 (3.3)	11.49 (5.2)	30.84' (9.4)	
-13.12 ft (-4.0 m)	25.57 (11.6)	25.57 (11.6)	19.62 (8.9)	27.34 (12.4)	14.59 (6.6)	23.15 (10.5)	11.44 (5.2)	19.62 (8.9)	9.33 (4.2)	16.18 (7.3)			10.16 (4.6)	13.27 (6.0)	25.56' (7.8)	
-19.69 ft (-6.0 m)			16.73 (7.6)	16.73 (7.6)	13.47 (6.1)	13.47 (6.1)										

Note
1. All ratings are based on SAE J1100.
2. The lifting capacity of the EX Series does not exceed 75% of tipping the machine on ground or 87% of tipping the machine on firm, standard equipment of fu...
3. The load point is a hook mounted on the back of the bucket.

EX330

Boom 21' (6.40 m) Arm 8' 9" (2.66 m) Bucket PCSA: 1.83 yd³ (1.40 m³) Shoes 24" (600 mm)																
Load point height	Load radius										At max. reach					
	13.12 ft (4.0 m)		16.40 ft (5.0 m)		19.69 ft (6.0 m)		22.97 ft (7.0 m)		26.25 ft (8.0 m)		29.53 ft (9.0 m)		ft (m)			
19.69 ft (6.0 m)							14.31 (6.5)	15.08 (6.8)	11.13 (5.1)	14.70 (6.7)			7.83 (3.6)	11.57 (5.3)	31.33' (9.6)	
13.12 ft (4.0 m)			22.93 (10.4)	24.25 (11.0)	17.15 (7.8)	20.06 (9.1)	13.32 (6.0)	17.64 (8.0)	10.56 (4.8)	15.54 (7.1)	8.47 (3.8)	12.61 (5.7)	6.70 (3.0)	10.19 (4.6)	33.14' (10.1)	
6.56 ft (2.0 m)					15.28 (6.9)	23.15 (10.5)	12.13 (5.5)	18.23 (8.3)	9.79 (4.4)	14.73 (6.7)	8.00 (3.6)	12.10 (5.5)	6.35 (2.9)	9.79 (4.4)	33.46' (10.2)	
0 ft (Ground)					14.33 (6.5)	22.05 (10.0)	11.35 (5.2)	17.39 (7.9)	9.24 (4.2)	14.11 (6.4)	7.63 (3.5)	11.71 (5.3)	6.68 (3.0)	10.34 (4.7)	31.99' (9.8)	
-6.56 ft (-2.0 m)	22.78 (12.6)	28.22 (12.8)	19.03 (8.6)	20.63 (9.4)	14.18 (6.4)	21.98 (10.0)	11.16 (5.1)	17.15 (7.8)	9.06 (4.1)	13.93 (6.3)			8.02 (3.6)	12.19 (5.5)	28.84' (8.8)	
-13.12 ft (-4.0 m)	21.89 (9.9)	21.89 (9.9)	19.62 (8.9)	25.13 (11.4)	14.59 (6.6)	21.74 (9.9)	11.51 (5.2)	17.55 (8.0)								
-19.69 ft (-6.0 m)																

Note
1. All ratings are based on SAE J1100.
2. The lifting capacity of the EX Series does not exceed 75% of tipping the machine on ground or 87% of tipping the machine on firm, standard equipment of fu...
3. The load point is a hook mounted on the back of the bucket.

Boom 21' (6.40 m) Arm 10' 6" (3.20 m) Bucket PCSA: 1.83 yd³ (1.40 m³) Shoes 24" (600 mm)																
Load point height	Load radius										At max. reach					
	13.12 ft (4.0 m)		16.40 ft (5.0 m)		19.69 ft (6.0 m)		22.97 ft (7.0 m)		26.25 ft (8.0 m)		29.53 ft (9.0 m)		ft (m)			
19.69 ft (6.0 m)										11.31 (5.1)	13.40 (6.1)	8.84 (4.0)	10.96 (5.0)	6.94 (3.2)	7.43 (3.4)	33.14' (10.1)
13.12 ft (4.0 m)					17.57 (8.0)	18.36 (8.3)	13.54 (6.1)	16.36 (7.4)	10.69 (4.9)	15.01 (6.8)	8.53 (3.9)	12.70 (5.8)	6.00 (2.7)	7.61 (3.5)	34.78' (10.6)	
6.56 ft (2.0 m)			20.35 (9.2)	30.42 (13.8)	15.61 (7.1)	23.59 (10.7)	12.28 (5.6)	18.41 (8.4)	9.85 (4.5)	14.79 (6.7)	8.00 (3.6)	12.13 (5.5)	5.69 (2.6)	8.20 (3.7)	35.10' (10.7)	
0 ft (Ground)			18.92 (8.6)	24.69 (11.2)	14.37 (6.5)	22.27 (10.1)	11.35 (5.2)	17.42 (7.9)	9.19 (4.2)	14.09 (6.4)	7.54 (3.4)	11.64 (5.3)	5.95 (2.7)	7.54 (3.4)	33.79' (10.3)	
-6.56 ft (-2.0 m)	22.71 (10.3)	22.71 (10.3)	18.78 (8.5)	27.34 (12.4)	14.02 (6.4)	21.85 (9.9)	11.00 (5.0)	17.02 (7.7)	8.91 (4.0)	13.78 (6.3)	7.36 (3.3)	11.46 (5.2)	6.99 (3.2)	10.82 (4.9)	30.82' (9.4)	
-13.12 ft (-4.0 m)	25.35 (11.5)	25.35 (11.5)	19.25 (8.7)	27.34 (12.4)	14.29 (6.5)	22.05 (10.0)	11.20 (5.1)	17.22 (7.8)	9.13 (4.1)	14.00 (6.4)			9.90 (4.5)	13.29 (6.0)	25.62' (7.8)	
-19.69 ft (-6.0 m)			16.89 (7.7)	16.89 (7.7)	13.65 (6.2)	13.65 (6.2)										

Boom 21' (6.40 m) Arm 13' 1" (4.0 m) Bucket PCSA: 1.50 yd³ (1.15 m³) Shoes 24" (600 mm)																
Load point height	Load radius										At max. reach					
	16.40 ft (5.0 m)		19.69 ft (6.0 m)		22.97 ft (7.0 m)		26.25 ft (8.0 m)		29.53 ft (9.0 m)		32.81 ft (10.0 m)		ft (m)			
19.69 ft (6.0 m)										9.28 (4.2)	11.77 (5.3)	7.23 (3.3)	7.23 (3.3)	6.06 (2.8)	5.84 (2.7)	35.76' (10.9)
13.12 ft (4.0 m)										11.09 (5.0)	13.56 (6.2)	8.84 (4.0)	12.87 (5.8)	7.10 (3.2)	10.67 (4.8)	37.40' (11.4)
6.56 ft (2.0 m)										10.16 (4.6)	15.12 (6.9)	8.22 (3.7)	12.37 (5.6)	6.70 (3.0)	10.25 (4.7)	37.40' (11.4)
0 ft (Ground)										9.35 (4.2)	17.66 (8.0)	9.35 (4.2)	11.75 (5.3)	6.31 (2.9)	10.25 (4.7)	37.40' (11.4)
-6.56 ft (-2.0 m)	21.49 (9.8)	27.12 (12.3)	16.27 (7.4)	21.56 (9.8)	12.72 (5.8)	18.28 (8.3)	10.16 (4.6)	15.12 (6.9)	8.22 (3.7)	12.37 (5.6)	6.70 (3.0)	10.25 (4.7)	5.00 (2.3)	6.27 (2.9)	37.73' (11.5)	
-13.12 ft (-4.0 m)	18.74 (8.6)	29.98 (13.6)	14.02 (6.4)	21.83 (9.9)	10.96 (5.0)	16.98 (7.7)	9.35 (4.2)	13.76 (6.2)	7.39 (3.4)	11.49 (5.2)			6.11 (2.8)	9.63 (4.4)	29.13' (8.9)	
-19.69 ft (-6.0 m)	19.69 (8.9)	22.27 (10.1)	14.68 (6.7)	18.76 (8.5)	11.57 (5.3)	15.23 (6.9)										

Specifications: EX330



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 (on safety element)
- Cartridge type engine oil filter
- Cartridge type engine oil bypass filter
- Cartridge type fuel filter
- Air cleaner double element
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan generator
- Isolation mounted engine
- Auto-idle system

HYDRAULIC SYSTEM

- Work mode selector
- Engine speed sensing system
- E-P control system
- Quick dump system for pilot circuit
- Shock valve in pilot circuit
- Boom anti-drift valve
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

CAB

- All-weather sound-suppressed steel cab
- Reinforced, tinted (bronze color) glass windows
- 6 fluid-filled elastic mounts
- Openable front and left side windows
- Intermittent retractable windshield wipers
- Front window washer
- Adjustable reclining suspension 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
- Pilot control shut-off lever
- Air conditioning
- Hot & Cool box

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
- 14,991 lb (6 800 kg) counterweight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror right side (left side option)
- Swing parking brake
- Travel motion alarm device

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- Track guards and hydraulic track adjuster
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seals
- 31" (800 mm) triple grouser shoes

FRONT ATTACHMENTS

- Bucket clearance adjust mechanism
- Centralized lubrication system
- Dirt seals on all bucket pins
- 21'0" (6.4 m) boom
- 10'6" (3.2 m) arm

MISCELLANEOUS

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



Optional Equipment

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

- Hose reel
- Electric oil refilling pump
- Swing motion alarm device with lamps
- Additive pump
- Piping for extra valve port
- Pre-cleaner
- Tropical cleaner

- Sun shade
- Front glass lower guard
- Reinforced undercover for upperstructure
- 24" (600 mm) triple grouser shoes
- 24" (600 mm) flat shoes
- 28" (700 mm) triple grouser shoes
- Full track guard

- Track center guard (extending over three lower rollers)
- Ripper bucket for ripping and loading hardpan
- One point ripper for ripping hardpan