

## EX5500-6 SPECIFICATIONS



**BACKHOE BUCKET CAPACITY:**  
(SAE HEAPED) 38.0 YD.<sup>3</sup> (29.0 M<sup>3</sup>)

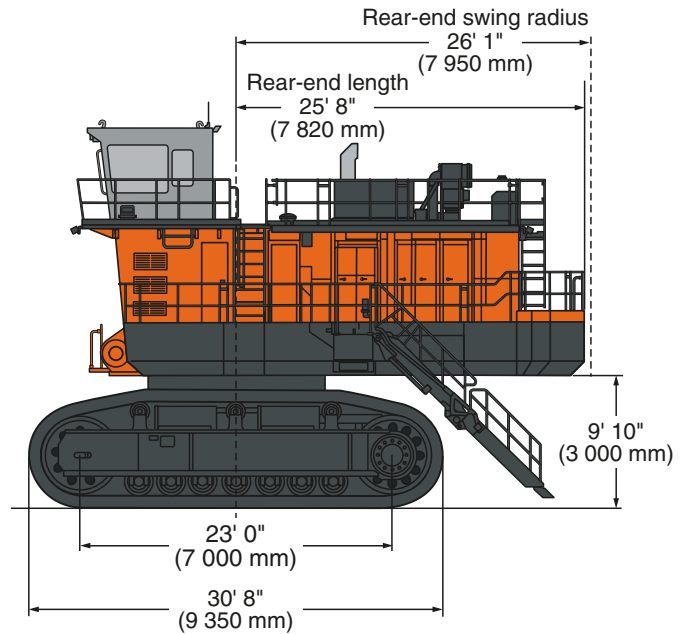
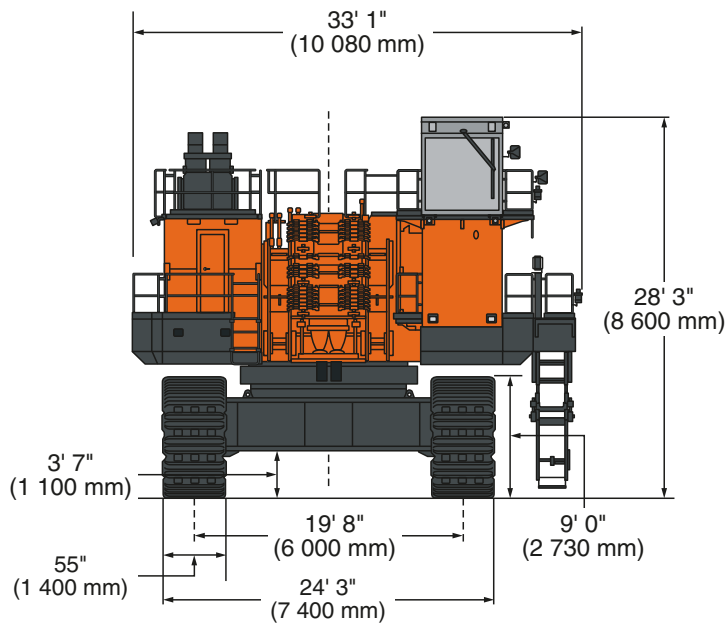
**SHOVEL BUCKET CAPACITY (HEAPED):**  
SAE (2:1): 35.5 YD.<sup>3</sup> (27.0 M<sup>3</sup>)

**OPERATING WEIGHT:**  
BACKHOE 1,151,000 LB. (522 000 KG)  
LOADING SHOVEL 1,151,000 LB. (522 000 KG)

**RATED POWER:**  
2,800 HP (2 088 KW)

# HITACHI

# EX5500-6 DIMENSIONS



## STANDARD EQUIPMENT

### Engine

140 A alternator  
Heavy-duty-type air cleaner with dust ejector  
Cartridge-type engine oil filter  
Cartridge-type engine oil bypass filter  
Cartridge-type fuel filter  
Water filter  
Radiator reserve tank  
Fan guard  
Isolation-mounted engine  
PRELUB system  
Auto-idle system  
Emergency engine stop system

### Hydraulic System

E-P control system  
OHS (Optimum Hydraulic System)  
FPS (Fuel-saving Pump System)  
Hydraulic drive cooling-fan system  
Forced-lubrication and forced-cooling pump drive system  
Control valve with main relief valve  
Suction filter  
Full-flow filter  
Bypass filter  
Pilot filter  
Drain filter  
High-pressure strainer

### Cab

Sturdy cab with top guard conforming to ISO (OPG Level II)  
Fluid-filled elastic mounts  
Laminated glass windshield  
Reinforced/tinted (bronze color) side and rear windows  
Parallel-link-type intermittent windshield wiper  
Front windshield washer  
Adjustable reclining seat with air suspension  
Footrest  
Air horn with electric compressor  
Auto-tuning AM-FM radio with digital clock  
Seat belt

### Storage spaces

Floor mat  
Auto air conditioner with defroster  
Rearview mirror  
Evacuation hammer  
Emergency escape device  
Trainer's seat  
Pilot control shut-off lever

### Monitor Systems

Meters  
Hourmeter  
Fuel gauge  
Hydraulic oil temperature gauge  
Engine coolant temperature gauge  
Tachometer  
Engine oil pressure gauge  
Engine oil temperature gauge  
Battery voltage gauge  
Ambient temperature

### Pilot lamps (Green)

Pre-lube  
Auto-idle  
Travel mode

### Warning lamps (Red)

Alternator  
Engine stop  
Coolant overheat  
Hydraulic oil level  
Auto lubrication  
Fast filling  
Tension  
Electric lever  
Emergency engine stop  
Top valve  
Engine over run  
Coolant level  
Engine oil pressure  
Pump transmission oil level indicator

### Warning lamp (Yellow)

Exhaust temperature  
Fuel temperature  
Engine warning

Hydraulic oil overheat  
Stairway position  
Electrical equipment box  
Pump contamination  
Air cleaner restriction  
Alarm buzzers  
Overheat  
Engine coolant pressure  
Engine coolant level  
Fuel temperature  
Engine oil pressure  
Engine oil temperature  
Air intake manifold temperature  
Crank-case pressure  
Pump transmission oil level  
Hydraulic oil level  
Stop valve close  
Fast-fill system panel position (option)  
Ladder position  
Electric lever fault

### Satellite data transmitting system

### Data Logging System

Data-Logging Unit (DLU) continuously records performance of the engine and the hydraulic system; the record can be downloaded by PC and PDA

### Lights

8 working lights, 3 entrance lights,  
8 maintenance room lights, 2 cab lights

### Upperstructure

Lockable machine covers  
107,365 lb. (48 700 kg) counterweight  
Hydraulic drive grease gun with hose reel  
Folding stairs with wide steps  
Swing parking brake

### Undercarriage

Travel parking brake  
Travel motion alarm device  
Travel motor guard (backhoe only)  
Hydraulic track adjuster with N<sub>2</sub> gas accumulator and relief valve  
55 in. (1 400 mm) triple grouser shoes

### Miscellaneous

Standard tool kit  
Electric crane (24 V DC)  
ISO conforming stairs and handrails  
Recirculation air filter for air conditioner  
Ventilation air filter for air conditioner  
12 V power terminal board  
Stop valve for transport and reassembly  
Auto-lubrication system (Lincoln)  
**Fast-Filling System**  
Fast-filling drop-down panel with Wiggins coupler for fuel, engine oil, engine coolant, grease, pump transmission oil, and swing device oil

## OPTIONAL EQUIPMENT

High brightness working lights  
Camera system with color monitors  
Travel motor guard  
Travel device guard

# EX5500-6 SPECIFICATIONS

ENGINE	
Model	Cummins
Type	4 cycle
Aspiration	Water-cooled, 16-cylinder, turbocharged and after-cooled, direct injection chamber-type diesel engine
Net power @ 1,800 rpm	1,333 hp (994 kW) x 2
Gross power @ 1,800 rpm (SAE J1995)	1,400 hp (1 044 kW) x 2
Maximum torque @ 1,300 rpm	4,705 lbf-ft. (6 379 N-m) x 2
Bore and stroke	6.3 in. x 6.3 in. (159 x 159 mm)
Piston displacement	3,069 cu. in. (50 L) x 2
Batteries	6 x 12 V, 6 x 220 AH
Starting system	24-volt electric
Cold starting	Ether aided

HYDRAULIC SYSTEM	
Hitachi's Electronic Total control System (ETS) achieves maximum efficiency, productivity, and operator comfort through reduced fuel consumption, lower noise levels, optimized engine-pump functions, and excellent controllability.	

<b>Engine-Pump Control (E-P)</b>
Main pumps are regulated by electronic engine-speed sensing control system.

<b>Optimum Hydraulic System (OHS)</b>
Twelve main pumps and six valves system enable both independent and combined operations of all functions.

<b>Fuel-saving Pump System (FPS)</b>
FPS minimizes energy loss with superior performance in fine control.

<b>Additional Features</b>
Auto-idling system for saving fuel and reducing noise. Hydraulic drive cooling-fan system for oil cooler. Forced-lubrication and forced-cooling pump drive system.

<b>Main Pumps</b>	
Eight variable-displacement, piston pumps in four tandem-axial pump groups for front attachment and travel.	
Maximum oil flow	8 x 99 gal./min. (8 x 375 L/min)

<b>Main/Swing Pumps</b>	
Four variable-displacement, piston pumps in two tandem-axial pump group for front attachment, travel, and swing.	
Maximum oil flow	4 x 112.0 gal./min. (4 x 425 L/min)

<b>Pilot Pump</b>	
Two gear pump	
Pressure setting	565 psi (40 kgf/cm²) (3.9 MPa)
Maximum oil flow	28.5 gal./min. (108 L/min) x 2

<b>Relief Valve Settings</b>	
Implement circuit	4,270 psi (300 kgf/cm <sup>2</sup> ) (29.4 MPa)
Swing circuit	3,556 psi (250 kgf/cm <sup>2</sup> ) (24.5 MPa)
Travel circuit	4,270 psi (300 kgf/cm <sup>2</sup> ) (29.4 MPa)
Pilot circuit	565 psi (40 kgf/cm <sup>2</sup> ) (3.9 MPa)

<b>Hydraulic Cylinders</b>
High-strength piston rods and tubes. Cylinder cushion mechanisms are provided for boom, arm, bucket, and dump cylinders. Bucket cylinder of loading shovel is provided with protector.

Cylinder Dimensions (Backhoe)				Cylinder Dimensions (Loading Shovel)			
	Quantity	Bore	Rod Diameter		Quantity	Bore	Rod Diameter
BE-boom	2	16.5 in. (420 mm)	11.8 in. (300 mm)	Boom	2	16.5 in. (420 mm)	11.8 in. (300 mm)
BE-arm	1	14.2 in. (360 mm)	10.2 in. (260 mm)	Arm	1	14.2 in. (360 mm)	10.2 in. (260 mm)
Bucket	1	12.2 in. (310 mm)	9.1 in. (230 mm)	Level	1	16.5 in. (420 mm)	11.8 in. (300 mm)
				Bucket	2	13.4 in. (340 mm)	9.8 in. (250 mm)
				Dump	2	11.0 in. (280 mm)	6.3 in. (160 mm)

<b>Hydraulic Filters</b>
All hydraulic circuits have high-quality hydraulic filters for protection against oil contamination and longer life of hydraulic components. Filters are centralized for convenient maintenance.

	Quantity	Specifications
Full flow filter	6	10 μm
High pressure strainer (in main and swing pump delivery line)	12	80 meshes
Drain filter (for all plunger-type pumps and motors)	1	10 μm
Pilot filter	1	10 μm
Bypass filter (in oil cooler bypass line)	1	5 μm





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## CONTROLS

### Two Implement Levers

Electric joystick control levers. Right lever is for boom and bucket control, and left lever is for swing and arm control. For loading shovel, two pedals provided for opening/closing the bottom dump bucket.

### Two Travel Levers with Pedals

Remote-controlled hydraulic servo system. Independent drive at each track allows counterrotation of tracks.

## UPPERSTRUCTURE

### Revolving Frame

Deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.

### Deck Machinery

Deck machinery is positioned for maximum maintenance accessibility. Sidewalks provide easy access to engines, hydraulic, and electrical components. ISO-compliant stairs and handrails. Sidewalks and stairs are provided with skid-resistant plates.

## SWING MECHANISM

Four high-torque, axial-piston motors with two-stage planetary reduction gear bathed in oil. Swing circle with dirt seals is a heavy-duty, triple-row, cylindrical roller bearing. Induction-hardened internal swing circle gear and pinion immersed in lubricant. Parking brake is spring-set/hydraulic-released disc type. This parking brake is manually releasable.

Swing speed	3.3 min <sup>-1</sup> (rpm)
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## OPERATOR'S CAB

The sturdy cab, with the top guard conforming to OPG Level II (ISO), protects the operator from falling objects. Independent, pressurized, 5 ft. 11 in. (1 800 mm) wide, 7 ft. 1 in. (2 150 mm) high, roomy 9.8 yd.<sup>3</sup> (7.5 m<sup>3</sup>) cab with tinted-glass windows features all-round visibility. Air-suspension type, fully adjustable reclining seat with armrests; movable with or without front and swing control levers by slide. Instruments and control panel are within easy reach of the operator. Three air conditioner systems.

Noise level	76 dB (A) in the cab at maximum engine speed under no-load condition
Eye level height	25 ft. 1 in. (7 640 mm)

## UNDERCARRIAGE

### Tracks

Shovel-type undercarriage. Dual-flanged-type bolt linkage for side frame and X-form center frame ensures durability. Heavy-duty track frame of all-welded, stress-relieved structure. Top-grade materials used for toughness. Lifetime-lubricated induction-hardened track rollers, idlers, and drive tumblers with floating seals. Specially heat-treated connection pins. Hydraulic track adjuster provided with N<sub>2</sub> gas accumulator with relief valve. Track adjuster provided with protection device against abnormal tension. Travel motion alarm device.

### Shovel-Type Undercarriage

Triple grouser track shoes of induction-hardened cast steel.

Shoe width	55 in. (1 400 mm)
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### Number of Rollers and Shoes (each side)

Upper rollers	3
Lower rollers	7
Track shoes	39

### Traction Device

Each track driven by high-torque, axial piston motors, allowing counterrotation of tracks. Two-stage planetary gear plus spur gears reduction device. Dual-support-type traction device. Parking brake of spring-set/hydraulic-released disc type. This parking brake is manually releasable.

Travel speeds	High: 0–1.4 mph (0–2.3 km/h)
	Low: 0–1.0 mph (0–1.6 km/h)
Maximum traction force	501,000 lbf (2 230 kN, 227 000 kgf)
Gradeability	30° (60%) continuous

## WEIGHTS AND GROUND PRESSURE

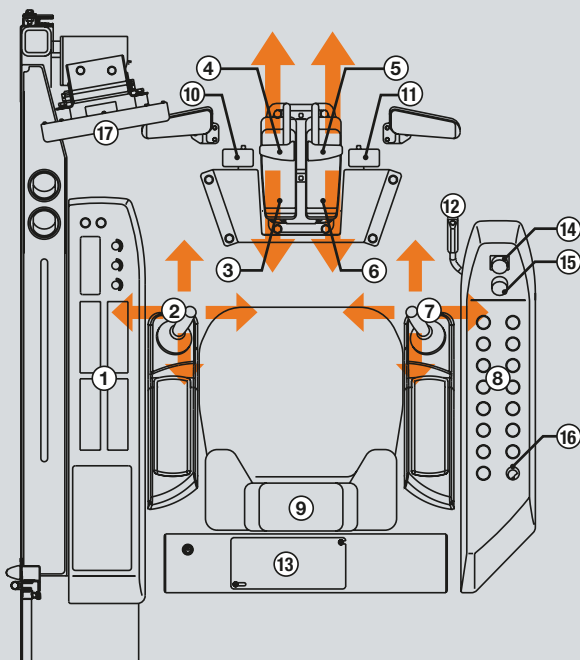
**Loading Shovel:** Equipped with 35.5 yd.<sup>3</sup> (27.0 m<sup>3</sup>) (SAE heaped) bottom dump bucket.

Shoe Type	Shoe Width	Operating Weight	Ground Pressure
Triple Grousers	55 in. (1 400 mm)	1,151,000 lb. (522 000 kg)	33.6 psi (232 kPa) (2.37 kgf/cm <sup>2</sup> )

**Backhoe:** Equipped with 34 ft. 9 in. (10.6 m) BE-boom, 17 ft. 5 in. (5.3 m) BE-arm, and 38.0 yd.<sup>3</sup> (29.0 m<sup>3</sup>) (SAE heaped) bucket.

Shoe Type	Shoe Width	Operating Weight	Ground Pressure
Triple Grousers	55 in. (1 400 mm)	1,151,000 lb. (522 000 kg)	33.6 psi (232 kPa) (2.37 kgf/cm <sup>2</sup> )

# CONTROL LAYOUT

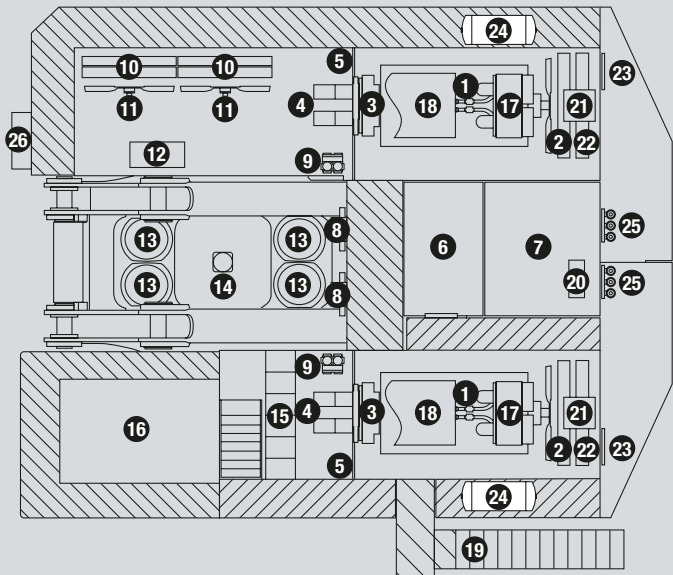


- 1. Left Console
- 2. Left Control Lever/Horn Switch
- 3. Left Travel Pedal
- 4. Left Travel Lever
- 5. Right Travel Lever
- 6. Right Travel Pedal
- 7. Right Control Lever/Horn Switch
- 8. Right Console
- 9. Operator's Seat
- 10. Bucket Close Pedal (For Loading Shovel)
- 11. Bucket Open Pedal (For Loading Shovel)
- 12. Pilot Control Shut-Off Lever
- 13. Rear Console
- 14. Emergency Engine Stop Switch
- 15. Engine Speed Control Dial
- 16. Key Switch
- 17. Monitor Display

# SERVICE REFILL CAPACITIES

	US Gallons	Liters	Imperial Gallons
Fuel Tank	2,985	11 300	2,486
Engine Coolant	2 x 126	2 x 476	2 x 105
Engine Oil (engine oil pan)	2 x 39.6	2 x 150	2 x 33
Engine Oil (reserve tank)	2 x 54.2	2 x 205	2 x 45.1
Pump Drive	2 x 7.4	2 x 28	2 x 6.2
Swing Drive Device (4 units)	4 x 22	4 x 84	4 x 18.5
Travel Drive Device (2 units)	2 x 90	2 x 340	2 x 74.8
Hydraulic System	1,640	6 200	1,360
Hydraulic Tank	581	2 200	484

# DECK MACHINERY LAYOUT



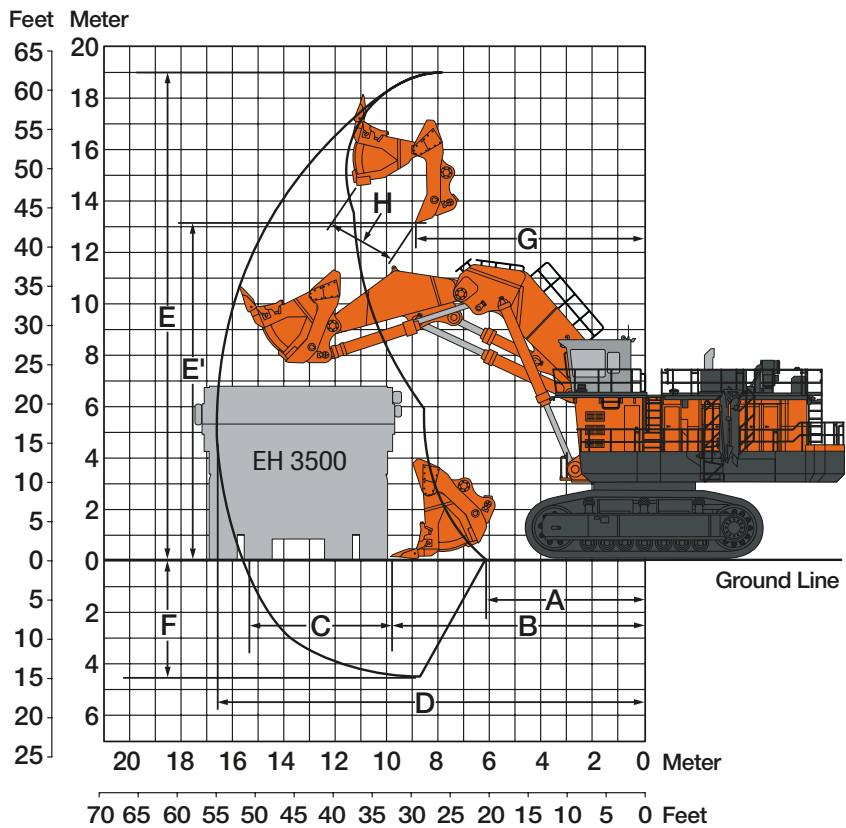
- 1. Diesel Engine x 2
- 2. Engine Radiator x 2
- 3. Pump Drive Unit x 2
- 4. Hydraulic Pump x 12
- 5. Engine-Pump Bulkhead x 2
- 6. Hydraulic Tank
- 7. Fuel Tank
- 8. Control Valve x 6
- 9. High-Pressure Strainer x 12
- 10. Hydraulic Oil Cooler x 2
- 11. Hydraulic Oil Cooling Fan Motor x 2
- 12. Lubricator
- 13. Swing Device x 4
- 14. Center Joint
- 15. Battery Unit
- 16. Cab
- 17. Air Filter (Outer/Inner) x 4
- 18. Muffler x 4
- 19. Folding Stairs
- 20. Fuel Cooler
- 21. Reserve Tank (Coolant) x 2
- 22. LTA Radiator x 2
- 23. Pump Transmission Oil Cooler x 2
- 24. Reserve Tank (Engine Oil) x 2
- 25. Fuel Filter (Water Separator) x 2
- 26. Ladder

# EX5500-6 SPECIFICATIONS

## LOADING SHOVEL ATTACHMENT

Boom and arm are of all-welded, low-stress, high-tensile strength steel full-box section design.

Efficient, automatic level crowding achieved by one-lever control as the parallel link mechanism keeps the bucket digging angle constant, and level cylinder circuit maintains the bucket height constant (Auto-Leveling Crowd Mechanism).



WORKING RANGES — BUCKET CAPACITY: 35.5 yd. <sup>3</sup> (27.0 m <sup>3</sup> )	
A. Min. digging distance	20 ft. 2 in. (6 150 mm)
B. Min. level crowding distance	32 ft. 2 in. (9 800 mm)
C. Level crowding distance	18 ft. 3 in. (5 550 mm)
D. Max. digging reach	54 ft. 6 in. (16 600 mm)
E. Max. cutting height	62 ft. 0 in. (18 900 mm)
E'. Max. dumping height	43 ft. 0 in. (13 100 mm)
F. Max. digging depth	14 ft. 11 in. (4 550 mm)
G. Working radius at max. dumping height	29 ft. 2 in. (8 900 mm)
H. Max. bucket opening width	8 ft. 10 in. (2 700 mm)
Arm crowding force	353,000 lbf (160 000 kgf, 1 570 kN )
Breakout force	353,000 lbf (160 000 kgf, 1 570 kN )

BUCKET (SAE HEAPED 2:1)					
Capacity	Width	Number of Teeth	Weight	Type	Materials Density
35.5 yd. <sup>3</sup> (27.0 m <sup>3</sup> )	15 ft. 5 in. (4 700 mm)	6	95,480 lb. (43 300 kg)	Bottom dump type, general purpose	3,033 lb./yd. <sup>3</sup> (1 800 kg/m <sup>3</sup> )

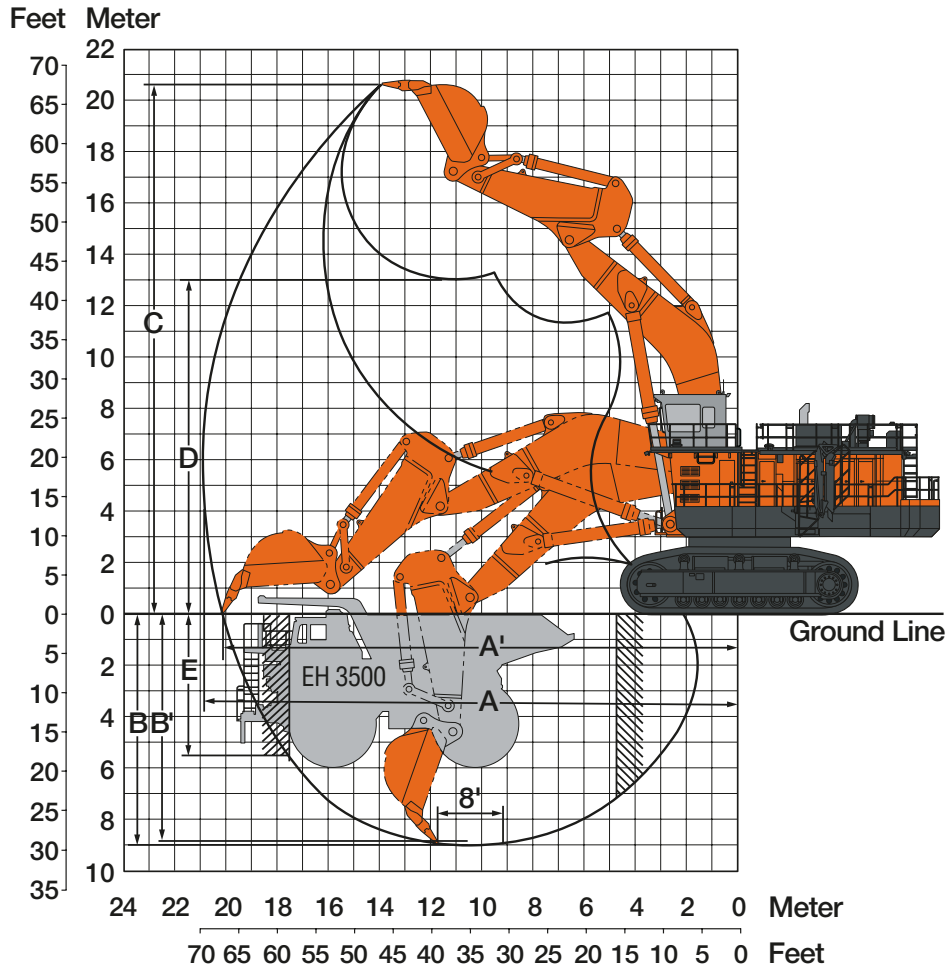
Note: These buckets do not include any type of wear protection for sides, bottom, and inside the bucket. Please consult your local Hitachi dealer for a proper wear protection system for your application.

Please do not use the buckets without proper wear protection for your application.

## BACKHOE ATTACHMENT

Boom and arm are of all-welded, low stress, full-box section design.

Bucket of all-welded, high-strength steel structure.



## WORKING RANGES

BE-Boom Length			34 ft. 9 in. (10.6 m)
BE-Arm Length			17 ft. 5 in. (5.3 m)
A. Max. digging reach			68 ft. 7 in. (20 900 mm)
A'. Max. digging reach (on ground)			65 ft. 11 in. (20 100 mm)
B. Max. digging depth			29 ft. 6 in. (9 000 mm)
B'. Max. digging depth (8 ft. level)			29 ft. 2 in. (8 900 mm)
C. Max. cutting height			67 ft. 7 in. (20 600 mm)
D. Max. dumping height			42 ft. 8 in. (13 000 mm)
E. Max. vertical wall depth			18 ft. 1 in. (5 500 mm)
Bucket Digging Force	SAE		296,000 lbf (134 000 kgf, 1 310 kN)
	ISO		309,000 lbf (140 000 kgf, 1 370 kN)
Arm Crowd Force	SAE		276,000 lbf (125 000 kgf, 1 230 kN)
	ISO		278,000 lbf (126 000 kgf, 1 240 kN)

## BUCKET

Capacity	Width	Number of Teeth	Weight	Type	Materials Density
SAE Heaped (1:1)	With Side Cutters				
38.0 yd. <sup>3</sup> (29.0 m <sup>3</sup> )	13 ft. 7 in. (4 150 mm)	5	64,390 lb. (29 200 kg)	General purpose bucket	3,033 lb./yd. <sup>3</sup> (1 800 kg/m <sup>3</sup> )

Note: These buckets do not include any type of wear protection for sides, bottom, and inside the bucket. Please consult your local Hitachi dealer for a proper wear protection system for your application.

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# EX5500-6 SHIPPING INFORMATION

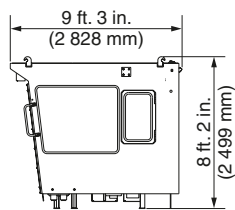
EX5500-6 components are designed for ease of transportation and on-site assembly.

Components can be assembled without welding.

## UPPERSTRUCTURE

### Cab

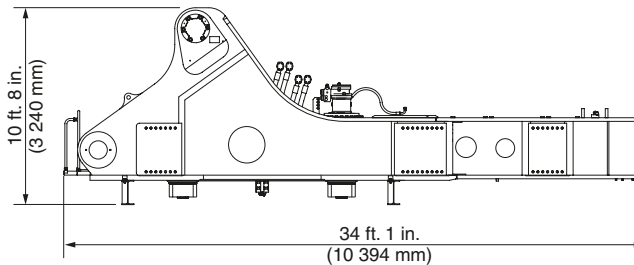
Weight: 3,858 lb. (1 750 kg)



Width: 6 ft. 2 in. (1 876 mm)

### Main frame assembly

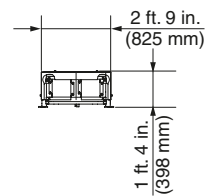
Weight: 106,483 lb. (48 300 kg)



Width: 11 ft. 6 in. (3 500 mm)

### Fuel cooler unit

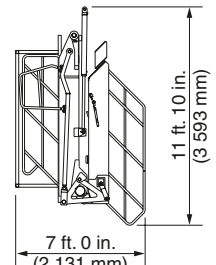
Weight: 117 lb. (53 kg)



Width: 1 ft. 4 in. (402 mm)

### Ladder

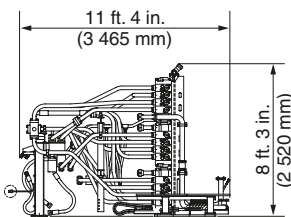
Weight: 1,865 lb. (846 kg)



Width: 3 ft. 7 in. (1 100 mm)

### Valve assembly

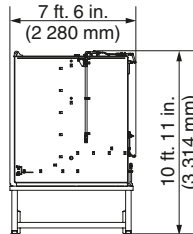
Weight : 16,623 lb. (7 540 kg)



Width : 10 ft. 2 in. (3 090 mm)

### Fuel tank

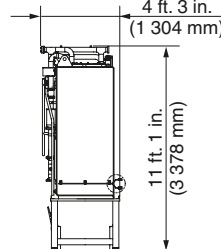
Weight: 11,486 lb. (5 210 kg)



Width: 7 ft. 11 in. (2 400 mm)

### Hydraulic oil tank

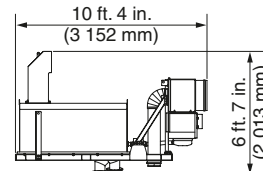
Weight: 14,837 lb. (6 730 kg)



Width: 7 ft. 7 in. (2 310 mm)

### Mufflers and air cleaners (left / right)

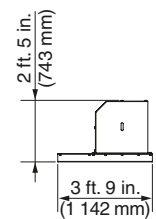
Weight: 1,920 lb. (871 kg) x 2



Width: 4 ft. 5 in. (1 352 mm)

### Water tanks (left / right)

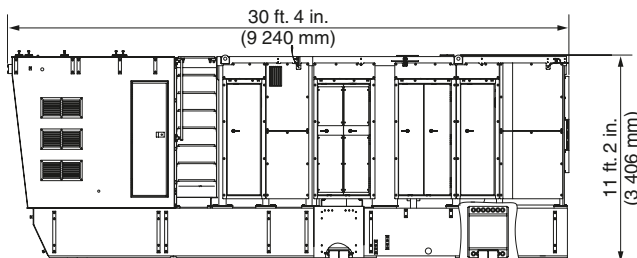
Weight: 390 lb. (177 kg) x 2



Width: 2 ft. 5 in. (735 mm)

### Engine unit (left)

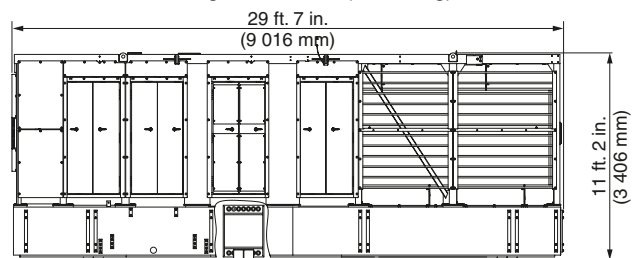
Weight : 58,422 lb. (26 500 kg)



Width : 8 ft. 6 in. (2 595 mm)

### Engine unit (right)

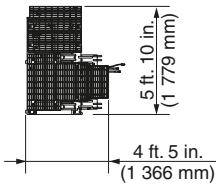
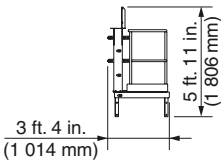
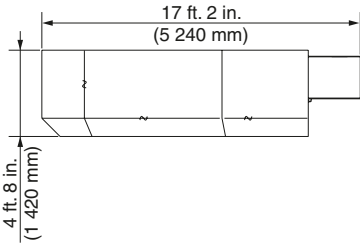
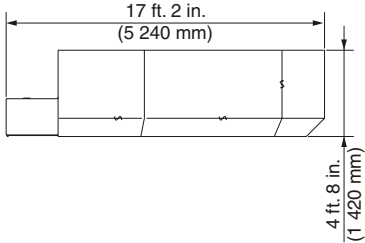
Weight: 60,186 lb. (27 300 kg)

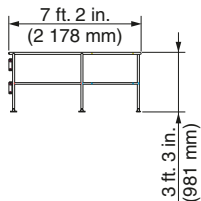
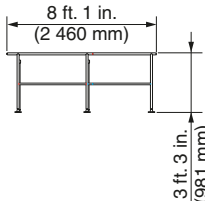
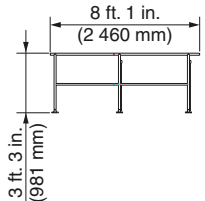
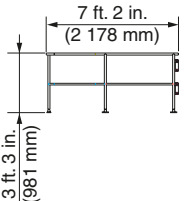


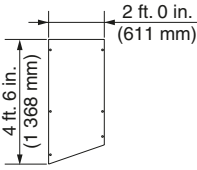
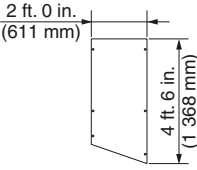
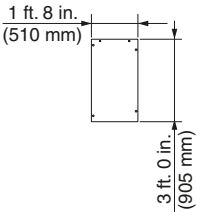
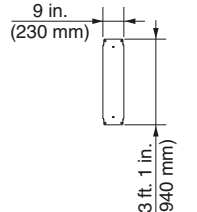
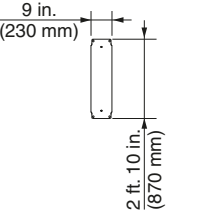
Width: 7 ft. 10 in. (2 395 mm)

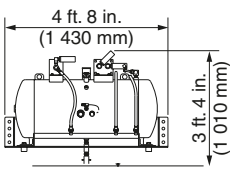
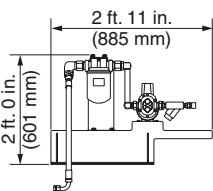
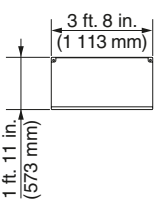
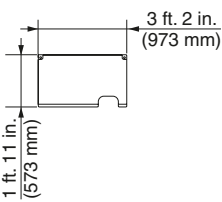


# UPPERSTRUCTURE

<b>Box</b> Weight: 2,101 lb. (953 kg)	<b>Step</b> Weight: 165 lb. (75 kg)	<b>Counterweight (left)</b> Weight: 53,973 lb. (24 400 kg)	<b>Counterweight (right)</b> Weight: 52,470 lb. (23 800 kg)
			
Width: 6 ft. 7 in. (2 001 mm)	Width: 2 ft. 8 in. (808 mm)	Width: 5 ft. 1 in. (1 543 mm)	Width: 5 ft. 1 in. (1 543 mm)

<b>Handrail</b> Weight: 44 lb. (20 kg)	<b>Handrail</b> Weight: 55 lb. (25 kg)	<b>Handrail</b> Weight: 55 lb. (25 kg)	<b>Handrail</b> Weight: 44 lb. (20 kg)
			
Width: 1 ft. 8 in. (500 mm)	Width: 1 ft. 3 in. (392 mm)	Width: 1 ft. 3 in. (392 mm)	Width: 1 ft. 8 in. (500 mm)

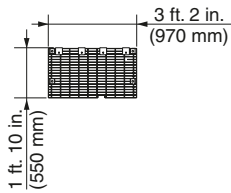
<b>Cover</b> Weight: 40 lb. (18 kg)	<b>Cover</b> Weight: 40 lb. (18 kg)	<b>Cover</b> Weight: 24 lb. (11 kg)	<b>Cover</b> Weight: 11 lb. (5 kg)	<b>Cover</b> Weight: 11 lb. (5 kg)
				
Width: 1 in. (30 mm)	Width: 1 in. (30 mm)	Width: 1 in. (30 mm)	Width: 1 in. (30 mm)	Width: 1 in. (30 mm)

<b>Reserve tanks (left / right)</b> Weight: 816 lb. (370 kg) x 2	<b>Hydraulic oil pump assembly</b> Weight: 119 lb. (54 kg)	<b>Step</b> Weight: 46 lb. (21 kg)	<b>Step</b> Weight: 42 lb. (19 kg)
			
Width: 1 ft. 8 in. (508 mm)	Width: 2 ft. 1 in. (635 mm)	Width: 1 in. (36 mm)	Width: 5 in. (136 mm)

# UPPERSTRUCTURE

## Step

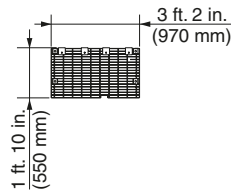
Weight: 33 lb. (15 kg)



Width: 2 in. (40 mm)

## Step

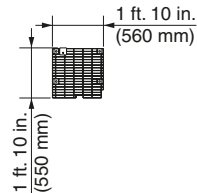
Weight: 33 lb. (15 kg)



Width: 2 in. (40 mm)

## Step

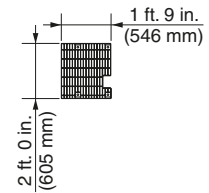
Weight: 18 lb. (8 kg)



Width: 2 in. (40 mm)

## Step

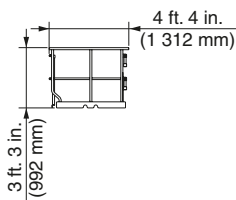
Weight: 20 lb. (9 kg)



Width: 5 in. (131 mm)

## Handrail

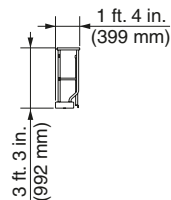
Weight: 51 lb. (23 kg)



Width: 10 in. (266 mm)

## Handrail

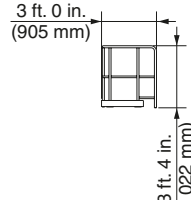
Weight: 27 lb. (12 kg)



Width: 10 in. (266 mm)

## Handrail

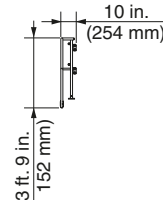
Weight: 53 lb. (24 kg)



Width: 2 ft. 6 in. (767 mm)

## Handrail

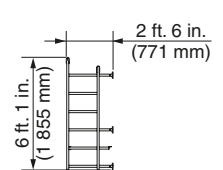
Weight: 27 lb. (12 kg)



Width: 1 ft. 1 in. (331 mm)

## Handrail

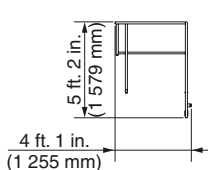
Weight: 51 lb. (23 kg)



Width: 10 in. (265 mm)

## Handrail

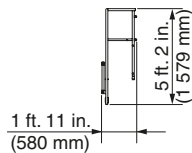
Weight: 38 lb. (17 kg)



Width: 1 ft. 2 in. (348 mm)

## Handrail

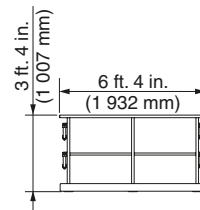
Weight: 33 lb. (15 kg)



Width: 1 ft. 1 in. (322 mm)

## Handrail

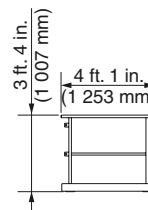
Weight: 62 lb. (28 kg)



Width: 9 in. (223 mm)

## Handrail

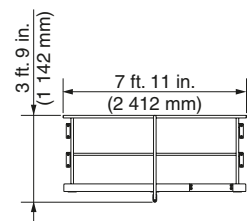
Weight: 35 lb. (16 kg)



Width: 2 in. (55 mm)

## Handrail

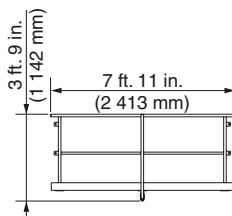
Weight: 79 lb. (36 kg)



Width: 11 in. (267 mm)

## Handrail

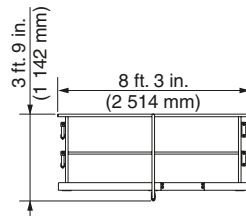
Weight: 71 lb. (32 kg)



Width: 11 in. (267 mm)

## Handrail

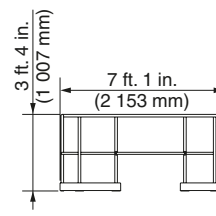
Weight: 77 lb. (35 kg)



Width: 1 ft. 5 in. (435 mm)

## Handrail

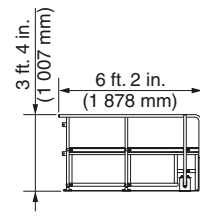
Weight: 68 lb. (31 kg)



Width: 1 ft. 4 in. (394 mm)

## Handrail

Weight: 110 lb. (50 kg)

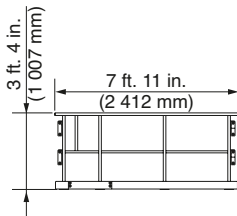


Width: 1 ft. 0 in. (301 mm)

# UPPERSTRUCTURE

## Handrail

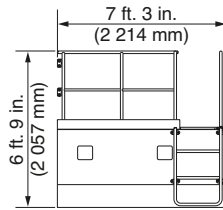
Weight: 88 lb. (40 kg)



Width: 11 in. (282 mm)

## Fender

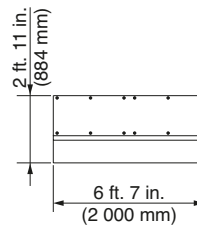
Weight: 639 lb. (290 kg)



Width: 2 ft. 11 in. (881 mm)

## Guard

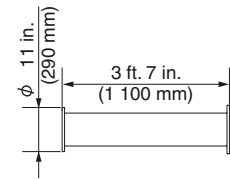
Weight: 536 lb. (243 kg)



Width: 2 ft. 3 in. (695 mm)

## Pipe

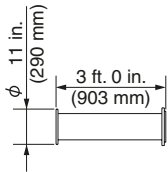
Weight: 93 lb. (42 kg)



Width: 11 in. (290 mm)

## Pipe

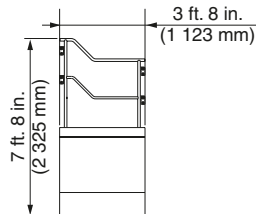
Weight: 82 lb. (37 kg)



Width: 11 in. (290 mm)

## Fender

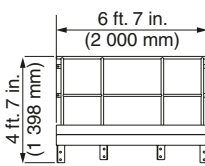
Weight: 377 lb. (171 kg)



Width: 2 ft. 3 in. (677 mm)

## Fender

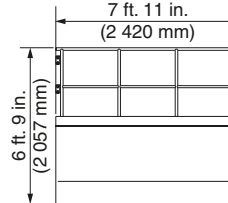
Weight: 256 lb. (116 kg)



Width: 2 ft. 3 in. (677 mm)

## Fender

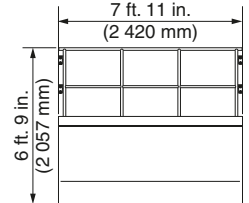
Weight: 582 lb. (264 kg)



Width: 2 ft. 3 in. (677 mm)

## Fender

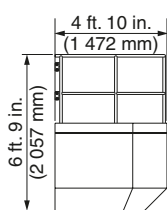
Weight: 575 lb. (261 kg)



Width: 2 ft. 3 in. (677 mm)

## Fender

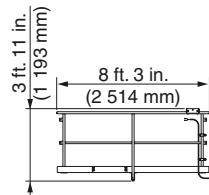
Weight: 492 lb. (223 kg)



Width: 2 ft. 3 in. (677 mm)

## Handrail

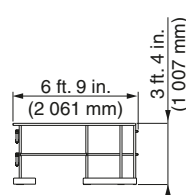
Weight: 79 lb. (36 kg)



Width: 11 in. (280 mm)

## Handrail

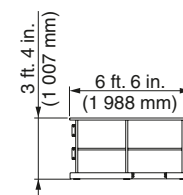
Weight: 66 lb. (30 kg)



Width: 1 ft. 3 in. (391 mm)

## Handrail

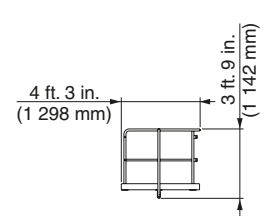
Weight: 62 lb. (28 kg)



Width: 3 in. (70 mm)

## Handrail

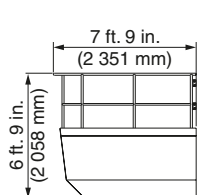
Weight: 51 lb. (23 kg)



Width: 11 in. (267 mm)

## Fender

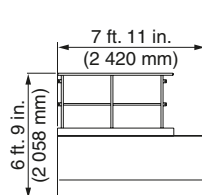
Weight: 569 lb. (258 kg)



Width: 2 ft. 3 in. (682 mm)

## Fender

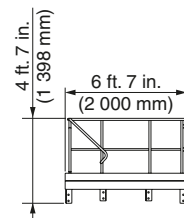
Weight: 631 lb. (286 kg)



Width: 2 ft. 3 in. (677 mm)

## Fender

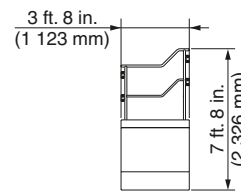
Weight: 265 lb. (120 kg)



Width: 2 ft. 7 in. (797 mm)

## Fender

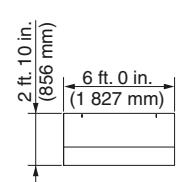
Weight: 377 lb. (171 kg)



Width: 2 ft. 3 in. (677 mm)

## Cover

Weight: 90 lb. (41 kg)

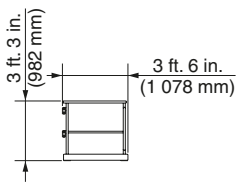


Width: 1 ft. 6 in. (462 mm)

# UPPERSTRUCTURE

## Handrail

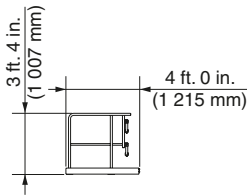
Weight: 37 lb. (17 kg)



Width: 7 in. (189 mm)

## Handrail

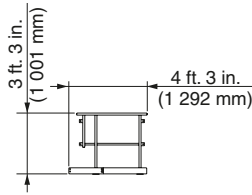
Weight: 40 lb. (18 kg)



Width: 9 in. (223 mm)

## Handrail

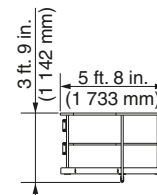
Weight: 40 lb. (18 kg)



Width: 3 in. (70 mm)

## Handrail

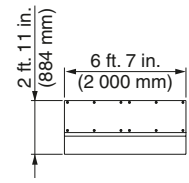
Weight: 68 lb. (31 kg)



Width: 11 in. (267 mm)

## Guard

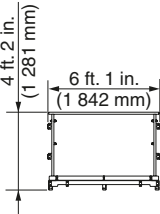
Weight: 536 lb. (243 kg)



Width: 2 ft. 3 in. (695 mm)

## Step

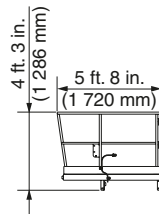
Weight: 148 lb. (67 kg)



Width: 2 ft. 0 in. (620 mm)

## Step

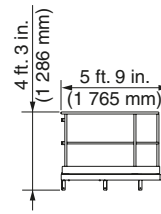
Weight: 212 lb. (96 kg)



Width: 2 ft. 4 in. (719 mm)

## Step

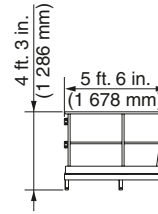
Weight: 247 lb. (112 kg)



Width: 2 ft. 3 in. (687 mm)

## Step

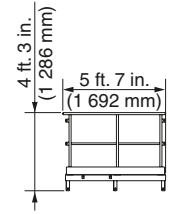
Weight: 172 lb. (78 kg)



Width: 1 ft. 10 in. (552 mm)

## Step

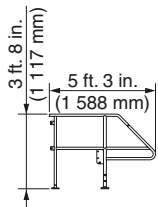
Weight: 187 lb. (85 kg)



Width: 1 ft. 11 in. (577 mm)

## Handrail

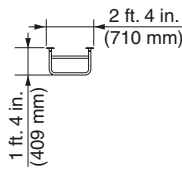
Weight: 46 lb. (21 kg)



Width: 5 in. (131 mm)

## Handrail

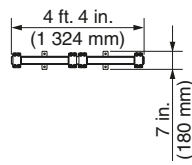
Weight: 13 lb. (5.8 kg)



Width: 2 in. (50 mm)

## Bracket assembly

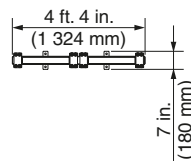
Weight: 40 lb. (18 kg)



Width: 4 in. (110 mm)

## Bracket assembly

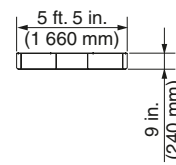
Weight: 40 lb. (18 kg)



Width: 4 in. (110 mm)

## Cover

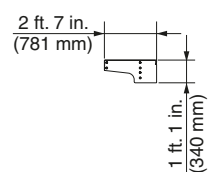
Weight: 49 lb. (22 kg)



Width: 8 in. (200 mm)

## Step

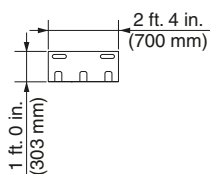
Weight: 117 lb. (53 kg)



Width: 2 ft. 4 in. (710 mm)

## Cover

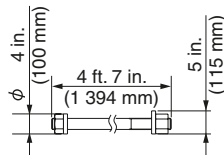
Weight: 13 lb. (5.8 kg)



Width: 2 in. (50 mm)

## Bolt assembly

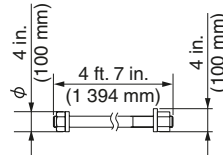
Weight: 68 lb. (31 kg) x 4



Width: 5 in. (115 mm)

## Bolt assembly

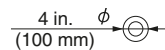
Weight: 66 lb. (30 kg) x 1



Width: 4 in. (100 mm)

## Washers

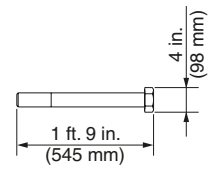
Weight: 2 lb. (0.8 kg) x 62



Width: 1 in. (20 mm)

## Bolts

Weight: 25 lb. (11.2 kg) x 62



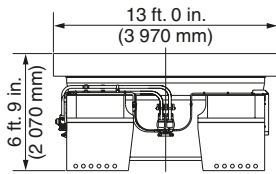
Width: 3 in. (85 mm)



# UNDERCARRIAGE

## Track center frame assembly

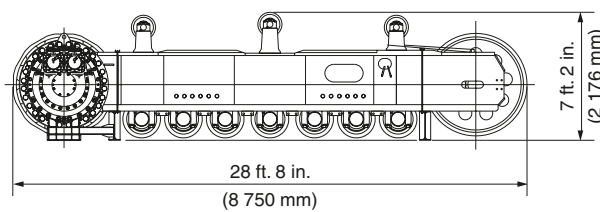
Weight: 106,924 lb. (48 500 kg)



Width: 20 ft. 1 in. (6 120 mm)

## Track side frames

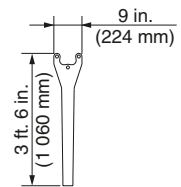
Weight: 101,413 lb. (46 000 kg) x 2



Width: 8 ft. 10 in. (2 680 mm)

## Stopper

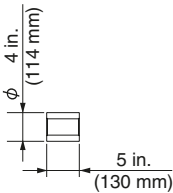
Weight: 38 lb. (17 kg)



Width: 1 in. (19 mm)

## Spacers

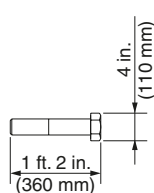
Weight: 16 lb. (7.1 kg) x 56



Width: 4 in. (114 mm)

## Bolts

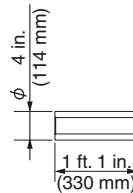
Weight: 22 lb. (10.1 kg) x 56



Width: 4 in. (95 mm)

## Spacers

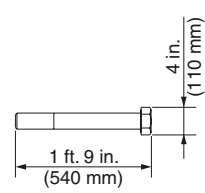
Weight: 40 lb. (18 kg) x 24



Width: 4 in. (114 mm)

## Bolts

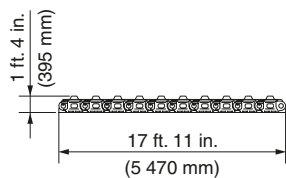
Weight: 32 lb. (14.6 kg) x 24



Width: 4 in. (95 mm)

## Track links

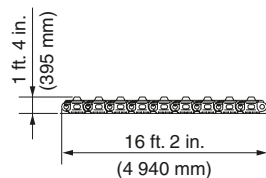
Weight: 17,527 lb. (7 950 kg) x 6



Width: 4 ft. 7 in. (1 400 mm)

## Track links

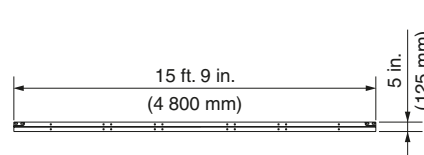
Weight: 15,785 lb. (7 160 kg) x 2



Width: 4 ft. 7 in. (1 400 mm)

## Support

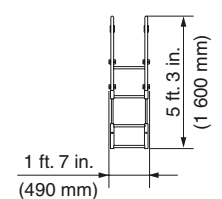
Weight: 251 lb. (114 kg)



Width: 5 in. (125 mm)

## Ladder

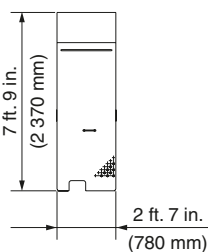
Weight: 71 lb. (32 kg)



Width: 2 ft. 0 in. (600 mm)

## Motor cover

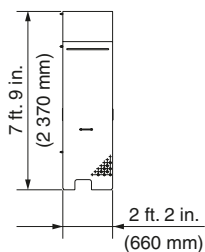
Weight: 183 lb. (83 kg)



Width: 2 ft. 7 in. (800 mm)

## Motor cover

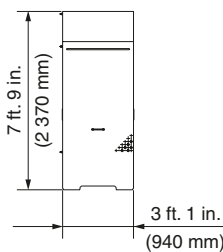
Weight: 152 lb. (69 kg)



Width: 2 ft. 7 in. (800 mm)

## Motor cover

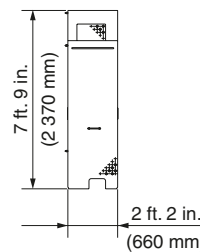
Weight: 216 lb. (98 kg)



Width: 2 ft. 7 in. (800 mm)

## Motor cover

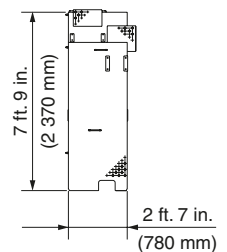
Weight: 159 lb. (72 kg)



Width: 2 ft. 7 in. (800 mm)

## Motor cover

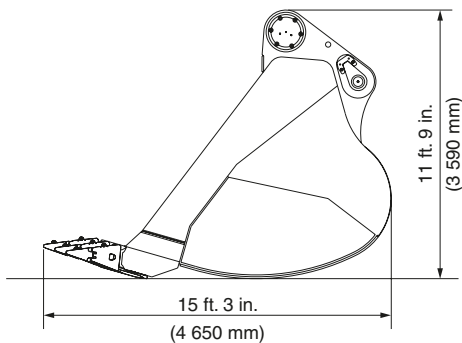
Weight: 203 lb. (92 kg)



Width: 2 ft. 8 in. (819 mm)

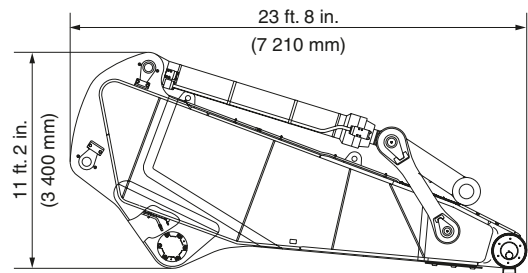
# BACKHOE ATTACHMENTS

**Bucket assembly**  
**Capacity; 29.0 m<sup>3</sup> (SAE heaped)**  
Weight: 67,682 lb. (30 700 kg)



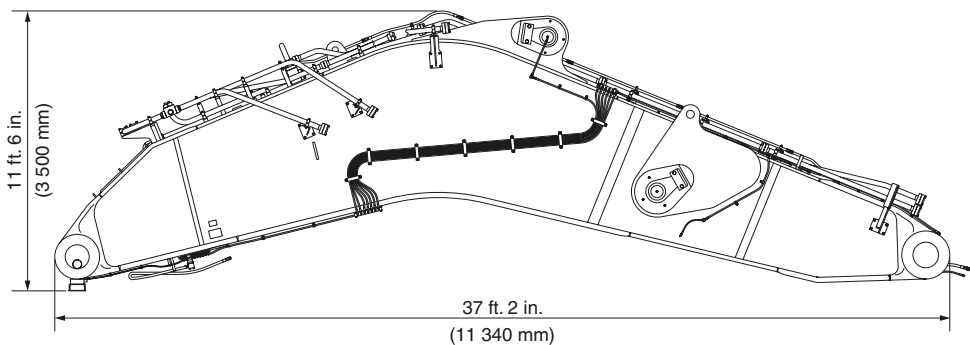
Width: 14 ft. 0 in. (4 260 mm)

**Arm assembly**  
Weight: 81,571 lb. (37 000 kg)



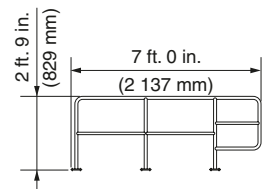
Width: 7 ft. 9 in. (2 360 mm)

**Boom assembly**  
Weight: 90,169 lb. (40 900 kg)



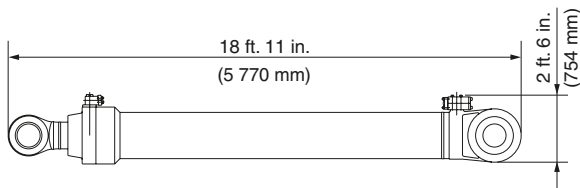
Width: 9 ft. 5 in. (2 880 mm)

**Handrails**  
Weight: 40 lb. (18 kg) x 2



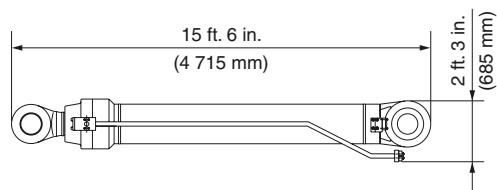
Width: 2 in. (50 mm)

**Boom cylinders**  
Weight: 15,168 lb. (6 880 kg) x 2



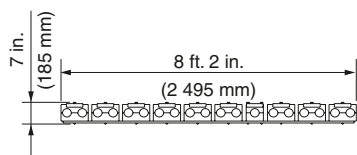
Width: 2 ft. 1 in. (640 mm)

**Arm cylinders**  
Weight: 10,340 lb. (4 690 kg) x 2



Width: 2 ft. 10 in. (865 mm)

**Clamp assembly**  
Weight: 108 lb. (49 kg)

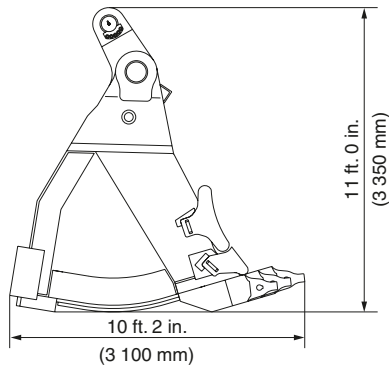


Width: 4 in. (100 mm)

# LOADER ATTACHMENTS

## Front bucket: Capacity; 27.0 m<sup>3</sup> (heaped)

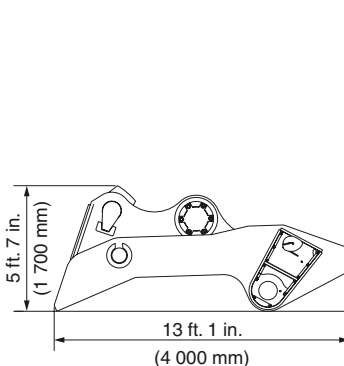
Weight: 39,904 lb. (18 100 kg)



Width: 15 ft. 8 in. (4 782 mm)

## Rear bucket

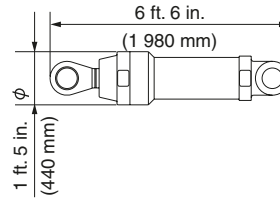
Weight: 45,195 lb. (20 500 kg)



Width: 15 ft. 9 in. (4 790 mm)

## Dump cylinders

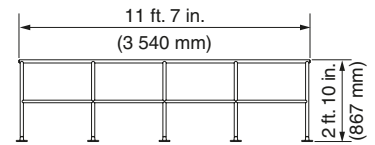
Weight: 2,172 lb. (985 kg) x 2



Width: 1 ft. 5 in. (443 mm)

## Handrails

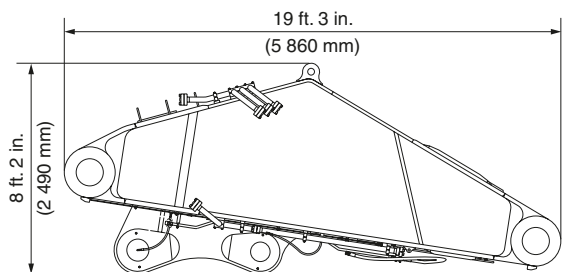
Weight: 62 lb. (28 kg) x 2



Width: 2 in. (50 mm)

## Arm assembly

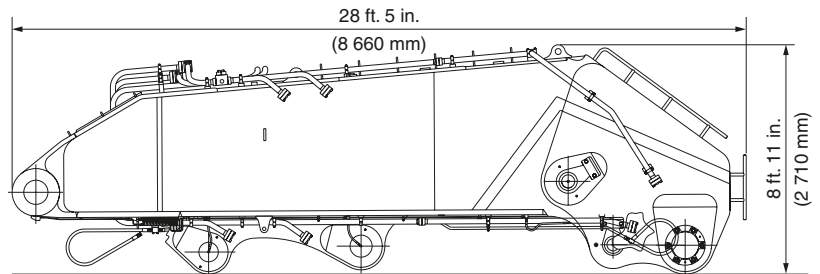
Weight: 46,958 lb. (21 300 kg)



Width: 10 ft. 6 in. (3 210 mm)

## Boom assembly

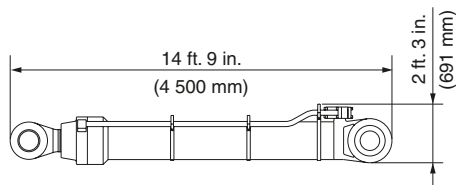
Weight: 80,248 lb. (36 400 kg)



Width: 10 ft. 6 in. (3 210 mm)

## Arm cylinder

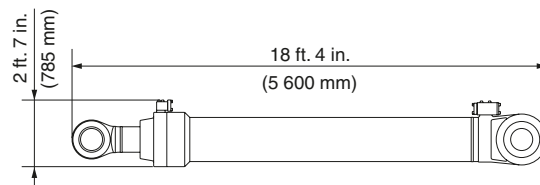
Weight: 9,524 lb. (4 320 kg)



Width: 2 ft. 7 in. (790 mm)

## Boom cylinders

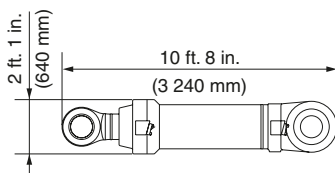
Weight: 14,551 lb. (6 600 kg) x 2



Width: 2 ft. 1 in. (640 mm)

## Level cylinder

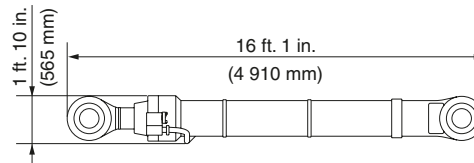
Weight: 8,466 lb. (3 840 kg)



Width: 3 ft. 5 in. (1 050 mm)

## Bucket cylinders

Weight: 8,951 lb. (4 060 kg) x 2



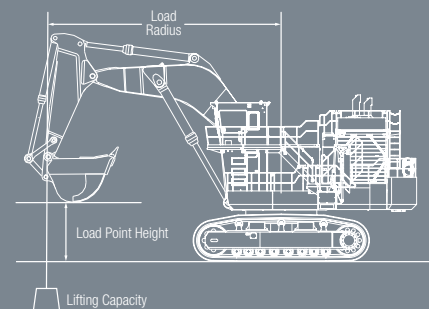
Width: 3 ft. 3 in. (980 mm)













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.

# LIFTING CAPACITIES

 RATING OVER SIDE OR 360-DEGREES  RATING OVER FRONT

UNIT 1,000 LB. (1 000 KG)



Conditions	Load Point Height	LOAD RADIUS										At Maximum Reach		
		26 ft. 3 in. (8 m)		32 ft. 10 in. (10 m)		39 ft. 4 in. (12 m)		45 ft. 11 in. (14 m)		52 ft. 6 in. (16 m)				
														ft. in. (meter)
BE-boom: 34 ft. 9 in. (10.6 m) BE-arm: 17 ft. 5 in. (5.3 m) Bucket SAE: 38 yd. <sup>3</sup> (29.0 m <sup>3</sup> ) Shoe: 4 ft. 7 in. (1 400 mm)	45 ft. 11 in. (14 m)					*122.1 (*55.4)	*122.1 (*55.4)	*100.1 (*45.4)	*100.1 (*45.4)			*97.7 (*44.3)	*97.7 (*44.3)	45 ft. 11 in. (14 m)
	39 ft. 4 in. (12 m)					*129.2 (*58.6)	*129.2 (*58.6)	*125.7 (*57.0)	*125.7 (*57.0)			*94.1 (*42.7)	*94.1 (*42.7)	49 ft. 10 in. (15.2 m)
	32 ft. 10 in. (10 m)			*162.3 (*73.6)	*162.3 (*73.6)	*156.3 (*70.9)	*156.3 (*70.9)	*144.6 (*65.6)	*144.6 (*65.6)			*94.4 (*42.8)	*94.4 (*42.8)	52 ft. 2 in. (15.9 m)
	26 ft. 3 in. (8 m)			*235.7 (*106.9)	*235.7 (*106.9)	*184.8 (*83.8)	*184.8 (*83.8)	*150.4 (*68.2)	*150.4 (*68.2)	*123.0 (*55.8)	*123.0 (*55.8)	*97.7 (*44.3)	*97.7 (*44.3)	53 ft. 9 in. (16.4 m)
	19 ft. 8 in. (6 m)					*193.6 (*87.8)	*193.6 (*87.8)	*154.8 (*70.2)	*154.8 (*70.2)	119.7 (54.3)	*123.9 (*56.2)	*104.1 (*47.2)	*104.1 (*47.2)	54 ft. 5 in. (16.6 m)
	13 ft. 1 in. (4 m)			*260.6 (*118.2)	*260.6 (*118.2)	*131.8 (*89.8)	*131.8 (*89.8)	155.0 (70.3)	*155.4 (*70.5)	116.2 (52.7)	*120.8 (*54.8)	107.4 (48.7)	*110.5 (*50.1)	54 ft. 1 in. (16.5 m)
	6 ft. 7 in. (2 m)			*256.0 (*116.1)	*256.0 (*116.1)	*194.7 (*88.3)	*194.7 (*88.3)	149.7 (67.9)	*150.4 (*68.2)	*110.7 (*50.2)	*110.7 (*50.2)	*105.6 (*47.9)	*105.6 (*47.9)	53 ft. 1 in. (16.2 m)
	0 (Ground)			*237.2 (*107.6)	*237.2 (*107.6)	*181.2 (*82.2)	*181.2 (*82.2)	*136.5 (*61.9)	*136.5 (*61.9)			*98.1 (*44.5)	*98.1 (*44.5)	51 ft. 2 in. (15.6 m)
	-6 ft. 7 in. (-2 m)	*258.6 (*117.3)	*258.6 (*117.3)	*203.1 (*92.1)	*203.1 (*92.1)	*153.9 (*69.8)	*153.9 (*69.8)	*106.5 (*48.3)	*106.5 (*48.3)			*85.8 (*38.9)	*85.8 (*38.9)	48 ft. 2 in. (14.7 m)

## 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% full hydraulic capacity.
3. The load point is a hook (not standard equipment) loaded on the back of the bucket.
4. \*Indicates load limited by hydraulic capacity.

# HITACHI

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Specifications and design subject to change without notice.

