

EX2500-6 SPECIFICATIONS



BACKHOE BUCKET CAPACITY:
(SAE HEAPED): 19.6 YD³ (15.0 M³)

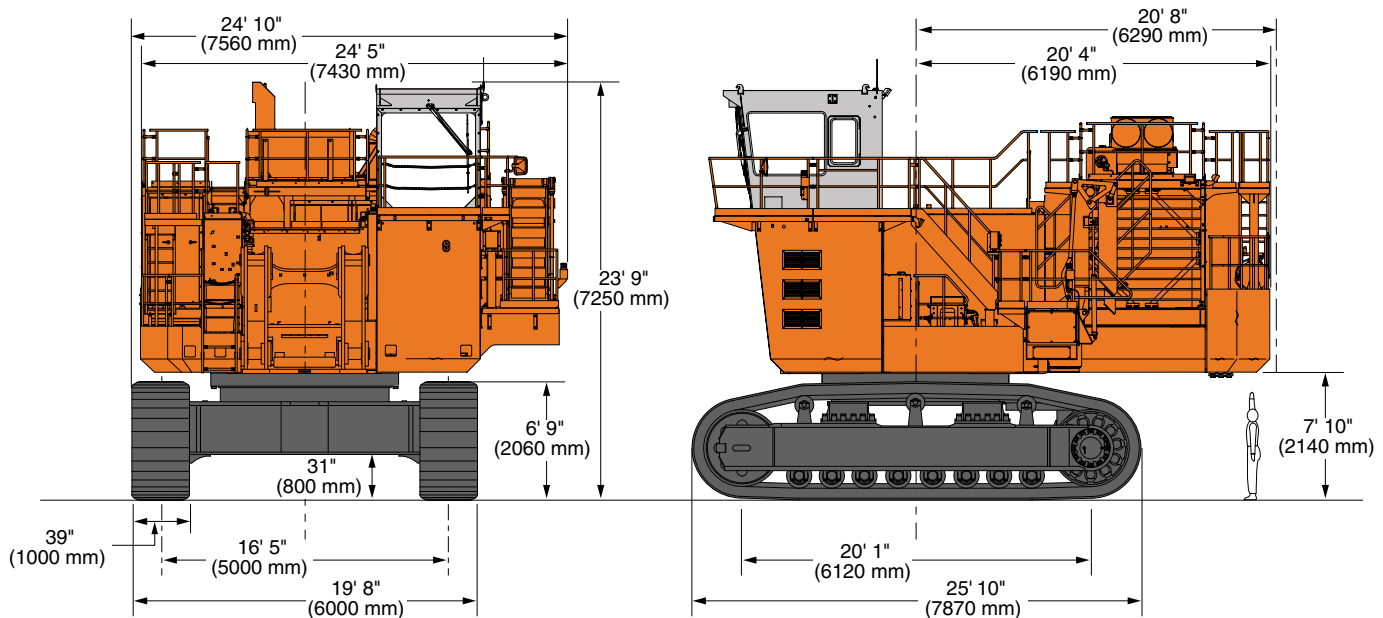
SHOVEL BUCKET CAPACITY (HEAPED):
SAE (2:1): 19.6–21.6 YD³ (15.0–16.5 M³)

OPERATING WEIGHT:
BACKHOE 546,700 LB. (248 000 KG)
LOADING SHOVEL 549,000 LB. (249 000KG)

RATED POWER:
1,400 HP (1 044 KW)

HITACHI

EX2500-6 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 engine
Emergency engine stop system

Hydraulic System

E-P control system
OHS (Optimum Hydraulic System)
FPS (Fuel-Saving Pump System)
Hydraulically driven 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

LCD Monitor

Meters

Hour-meter
Fuel gauge
Hydraulic oil temperature gauge
Engine coolant temperature gauge
Tachometer
Engine oil pressure gauge
Engine oil temperature gauge
Battery voltage gauge
Ambient temperature

Warning Indicators

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
Exhaust temperature

Fuel temperature
Engine warning
Hydraulic oil overheat
Stairway position
Electrical equipment box
Pump contamination
Air cleaner restriction
Satellite data transmitting system

Lights

6 working lights, 2 entrance lights,
3 maintenance lights, 2 cab lights

Upperstructure

Lockable machine covers
66,139-lb. (30 000 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
Hydraulic track adjuster with N₂ gas accumulator and relief valve
39-in. (1 000 mm) triple grouser shoes

Miscellaneous

Standard tool kit
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) for front-attachment pins, swing bearing, and center joint
Fast-filling drop down panel with Wiggins coupler for fuel, engine oil, engine coolant, grease, pump transmission oil, and swing device oil.

OPTIONAL EQUIPMENT

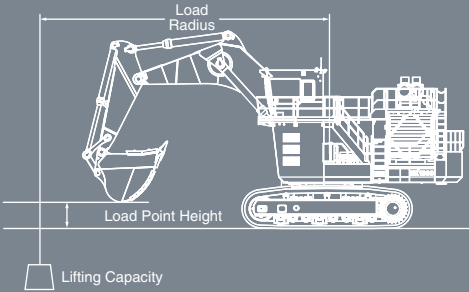
High brightness working lights
Back and right side cameras with color monitor
Travel motor guard
Travel device guard













LIFTING CAPACITIES

 RATING OVER SIDE OR 360-DEGREES

 RATING OVER FRONT

UNIT 1,000 LB. (1000 KG)



Conditions	Load Point Height	LOAD RADIUS										At Maximum Reach		
		19 ft. 6 in. (6 m)		26 ft. 3 in. (8 m)		32 ft. 10 in. (10 m)		39 ft. 4 in. (12 m)		45 ft. 11 in. (14 m)				
														ft. in. (meter)
BE-boom: 29 ft. 6 in. (9.0 m) BE-arm: 13 ft. 9 in. (4.2 m) Bucket SAE: 19.6 yd³ (15.0 m³) Shoes: 39 in. (1000 mm)	39 ft. 4 in. (12 m)							*45.6 (*20.7)	*45.6 (*20.7)			*23.6 (*10.7)	*23.6 (*10.7)	48 ft. 7 in. (14.8 m)
	32 ft. 10 in. (10 m)							*59.5 (*27.0)	*59.5 (*27.0)			*22.3 (*10.1)	*22.3 (*10.1)	51 ft. 6 in. (15.7 m)
	26 ft. 3 in. (8 m)							*67.2 (*30.5)	*67.2 (*30.5)	*51.6 (*23.4)	*51.6 (*23.4)	*22.0 (*10.0)	*22.0 (*10.0)	53 ft. 6 in. (16.3 m)
	19 ft. 8 in. (6 m)					*100.8 (*45.7)	*100.8 (*45.7)	*83.5 (*37.9)	*83.5 (*37.9)	62.4 (28.3)	*65.0 (*29.5)	*22.7 (*10.3)	*22.7 (*10.3)	54 ft. 2 in. (16.5 m)
	13 ft. 1 in. (4 m)					112.2 (50.9)	*119.0 (*54.0)	80.9 (36.7)	*92.6 (*42.0)	59.1 (26.8)	*75.8 (*34.4)	*24.3 (*11.0)	*24.3 (*11.0)	53 ft. 10 in. (16.4 m)
	6 ft. 7 in. (2 m)					104.9 (47.6)	*114.4 (*51.9)	76.0 (34.5)	*96.1 (*43.6)	56.4 (25.6)	75.4 (34.2)	*27.1 (*12.3)	*27.1 (*12.3)	52 ft. 6 in. (16.0 m)
	0 (Ground)					101.2 (45.9)	*108.2 (*49.1)	73.2 (33.2)	*94.6 (*42.9)	54.7 (24.8)	*73.2 (*33.2)	*31.5 (*14.3)	*31.5 (*14.3)	49 ft. 10 in. (15.2 m)
	-6 ft. 7 in. (-2 m)			*75.4 (*34.2)	*75.4 (*34.2)	100.3 (45.5)	*111.3 (*50.5)	72.1 (32.7)	*86.0 (*39.0)	*49.8 (*22.6)	*49.8 (*22.6)			
	-13 ft. 1 in. (-4 m)	*89.9 (*40.8)	*89.9 (*40.8)	*81.1 (*36.8)	*81.1 (*36.8)	*89.3 (*40.5)	*89.9 (*40.5)	*65.0 (*29.5)	*65.0 (*29.5)					

- 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.





EX2500-6 SPECIFICATIONS

CONTROLS

Two Implement Levers

Wrist control type electric lever. Right lever is for boom and bucket control, left lever 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 counter rotation 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.

SWING MECHANISM

Two 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. Swing parking brake is spring-set, hydraulic released disc type. This parking brake is manually releasable.

Swing Speed	Diesel: 3.8 min ⁻¹ (rpm)
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OPERATOR'S CAB

Steel construction with integrated, Falling Object Protective (FOPS) structure, meeting SAE FOPS. Independent, pressurized, 5 ft. 11 in. (1 800 mm) wide, 7 ft. 1 in. (2 150 mm) high, 9.8 yd³ (7.5 m³) roomy cab with tinted-glass windows featuring excellent visibility. Spring-suspension-type, fully adjustable reclining seat with armrests; movable with or without front and swing control levers by slide. Instrument and control panel is built in cab wall and is in easy range of the operator. Powerful fresh-air-ventilation-type air conditioner provides rapid cooling. Rotatable blower louvers also serve as defrosters. Fluid-filled elastic-mounts and sound-proofing reduces noise level and vibration.

Noise level	72 dB (A) in the cab; on maximum engine speed under no-load condition.
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Eye level height	20 ft. 8 in. (6 290 mm)
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UNDERCARRIAGE

Tracks

Shovel-type undercarriage. Dual-flanged-type bolt linkage for side frame and X-form center frame assures 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. Opposed double-type upper rollers for easy removal of mud. Track shoes of induction-hardened cast steel with triple grousers. Specially heat-treated connection pins. Hydraulic track adjuster provided with N₂ gas accumulator with relief valve. Track adjuster provided with protection device against abnormal tension. Travel motion alarm device.

Tractor-Type Undercarriage

Triple grouser track shoes of induction-hardened cast steel

Shoe Width	39 in. (1 000 mm)
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Number of Rollers and Shoes (each side)

Upper Rollers	3
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Lower Rollers	8
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Track Shoes	39
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Traction Device

Each track driven by high-torque, axial piston motors, allowing counter rotation 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	Low: 1.0 mph (1.6 km/h)
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	High: 1.5 mph (2.3 km/h)
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Max. Traction Force	298,900 lbf (135 600 kgf)
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Gradability	30° (60%) continuous
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WEIGHTS AND GROUND PRESSURE

Loading Shovel: Equipped with 19.6 yd³ (15.0 m³) (SAE heaped) bottom dump bucket.

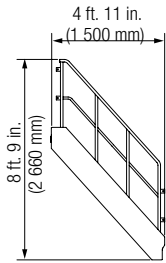
Shoe Type	Shoe Width	Operating Weight	Ground Pressure
Triple Grousers	39 in. (1 000 mm)	549,000 lb. (249 000 kg)	26.0 psi (179 kPa)

Backhoe: Equipped with 29 ft. 6 in. (9.0 m) boom, 13 ft. 9 in. (4.2 m) arm, and 19.6 yd³ (15.0 m³) (SAE heaped) bucket

Shoe Type	Shoe Width	Operating Weight	Ground Pressure
Triple Grousers	39 in. (1 000 mm)	546,000 lb. (248 000 kg)	25.9 psi (178 kPa)

Step

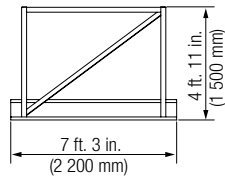
Weight: 284 lb. (129 kg)



Width: 1 ft. 11 in. (583 mm)

Fender

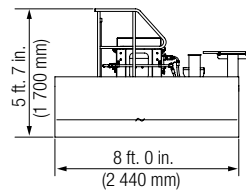
Weight: 291 lb. (132 kg)



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

Sidewalk

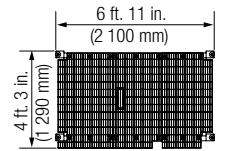
Weight: 864 lb. (392 kg)



Width: 4 ft. 4 in. (1 310 mm)

Step

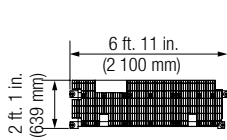
Weight: 258 lb. (117 kg)



Width: 6 in. (160 mm)

Step

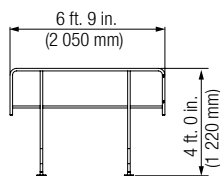
Weight: 152 lb. (69 kg)



Width: 8 in. (215 mm)

Handrail

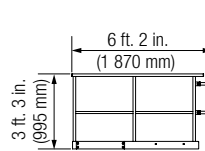
Weight: 42 lb. (19 kg)



Width: 6 in. (141 mm)

Handrail

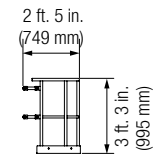
Weight: 44 lb. (19 kg)



Width: 1 ft. 1 in. (333 mm)

Handrail

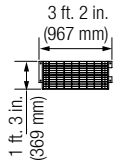
Weight: 40 lb. (18 kg)



Width: 2 ft. 8 in. (801 mm)

Step

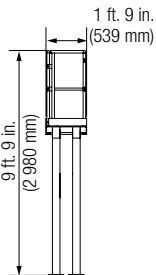
Weight: 38 lb. (17 kg)



Width: 10 in. (261 mm)

Step

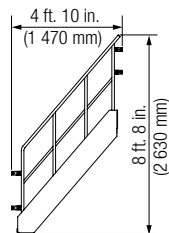
Weight: 223 lb. (101 kg)



Width: 3 ft. 3 in. (1 000 mm)

Step

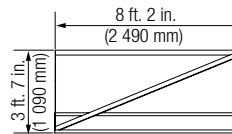
Weight: 267 lb. (121 kg)



Width: 1 ft. 9 in. (543 mm)

Fender

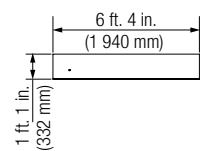
Weight: 247 lb. (112 kg)



Width: 2 ft. 8 in. (800 mm)

Cover

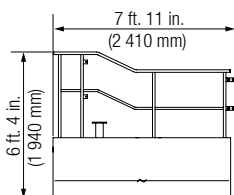
Weight: 42 lb. (19 kg)



Width: 3 in. (65 mm)

Sidewalk

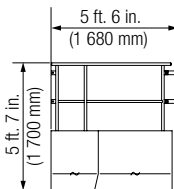
Weight: 686 lb. (311 kg)



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

Sidewalk

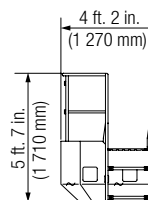
Weight: 470 lb. (213 kg)



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

Sidewalk

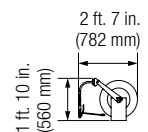
Weight: 267 lb. (121 kg)



Width: 2 ft. 6 in. (758 mm)

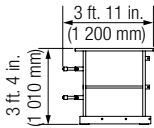
Hose Reel

Weight: 119 lb. (54 kg)



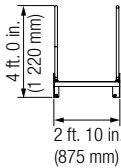
Width: 10 in. (265 mm)

Handrail
Weight: 31 lb. (14 kg)



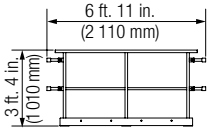
Width: 9 in. (218 mm)

Step
Weight: 135 lb. (61 kg)



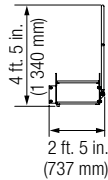
Width: 2 ft. 4 in. (723 mm)

Handrail
Weight: 51 lb. (23 kg)



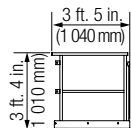
Width: 9 in. (218 mm)

Step
Weight: 97 lb. (44 kg)



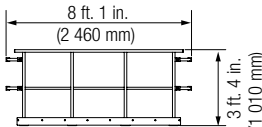
Width: 2 ft. 3 in. (677 mm)

Handrail
Weight: 31 lb. (14 kg)



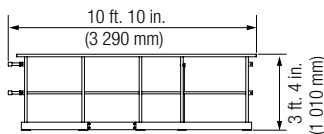
Width: 10 in. (266 mm)

Handrail
Weight: 64 lb. (29 kg)



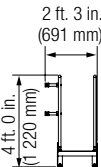
Width: 9 in. (223 mm)

Handrail
Weight: 82 lb. (37 kg)



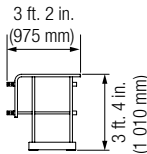
Width: 1 ft. 5 in. (429 mm)

Step
Weight: 95 lb. (43 kg)



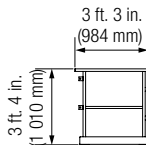
Width: 2 ft. 0 in. (599 mm)

Handrail
Weight: 24 lb. (11 kg)



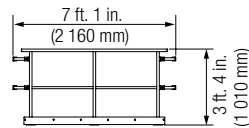
Width: 2 in. (55 mm)

Handrail
Weight: 31 lb. (41 kg)



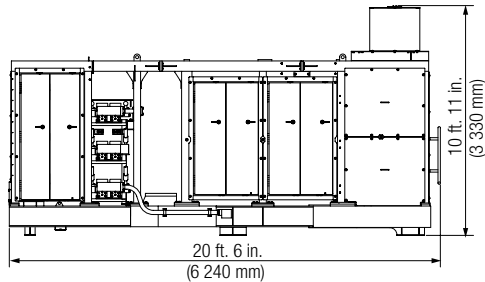
Width: 2 in. (55 mm)

Handrail
Weight: 53 lb. (24 kg)



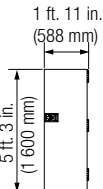
Width: 9 in. (223 mm)

Engine Unit
Weight: 53,140 lb. (15 030 kg)



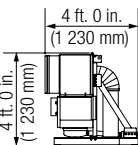
Width: 8 ft. 2 in. (2 500 mm)

Door
Weight: 57 lb. (26 kg)



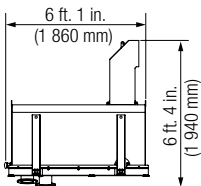
Width: 2 in. (50 mm)

Air Cleaners
Weight: 683 lb. (30 kg)



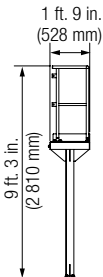
Width: 4 ft. 2 in. (1 260 mm)

Muffler
Weight: 1,257 lb. (570 kg)



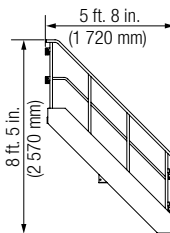
Width: 4 ft. 5 in. (1 350 mm)

Step
Weight: 203 lb. (92 kg)



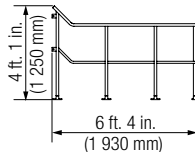
Width: 1 ft. 9 in. (545 mm)

Step
Weight: 293 lb. (133 kg)



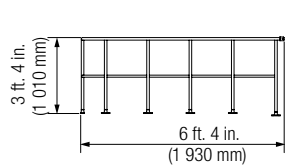
Width: 1 ft. 9 in. (543 mm)

Handrail
Weight: 46 lb. (21 kg)



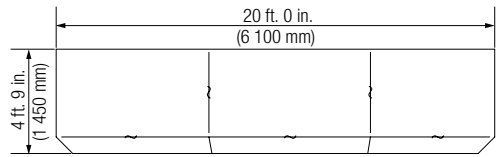
Width: 1 ft. 7 in. (482 mm)

Handrail
Weight: 66 lb. (30 kg)



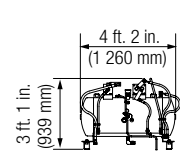
Width: 3 ft. 6 in. (1 078 mm)

Counterweight
Weight: 65,810 lb. (29 850 kg)



Width: 3 ft. 8 in. (1 110 mm)

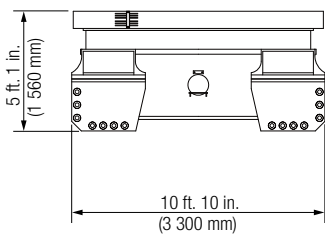
Reserve Tank
Weight: 331 lb. (150 kg)



Width: 1 ft. 8 in. (508 mm)

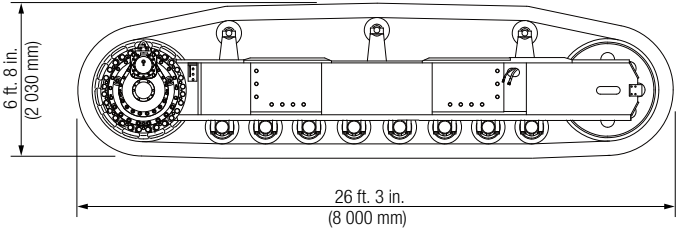
UNDERCARRIAGE

Track Center Frame Assembly
Weight: 48,060 lb. (21 800 kg)



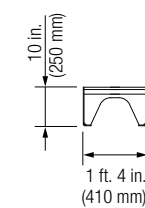
Width: 10 ft. 10 in. (3 300 mm)

Track Side Frame Assembly
Weight: 69,230 lb. (31 400 kg) × 2



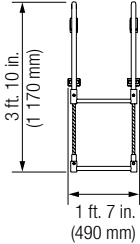
Width: 7 ft. 4 in. (2 230 mm) with travel device

Step
Weight: 18 lb. (8 kg)



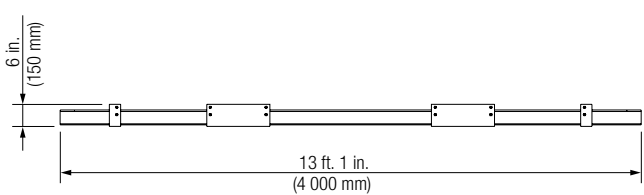
Width: 8 in. (200 mm)

Ladder
Weight: 29 lb. (13 kg)



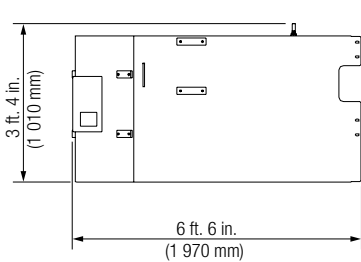
Width: 2 ft. 0 in. (603 mm)

Motor Cover Stay
Weight: 172 lb. (78 kg)



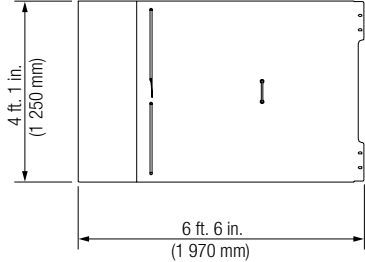
Width: 4 in. (109 mm)

Cover
Weight: 212 lb. (96 kg)



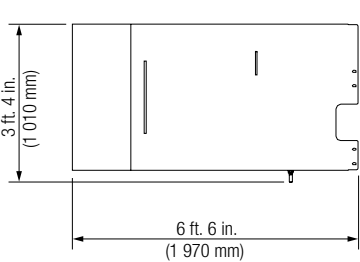
Width: 1 ft. 7 in. (479 mm)

Cover
Weight: 238 lb. (108 kg)



Width: 1 ft. 10 in. (560 mm)

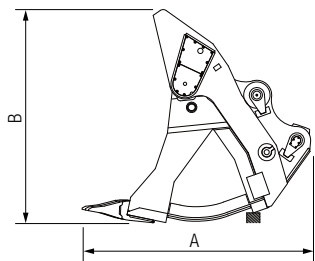
Cover
Weight: 192 lb. (87 kg)



Width: 1 ft. 10 in. (560 mm)

LOADING SHOVEL ATTACHMENTS

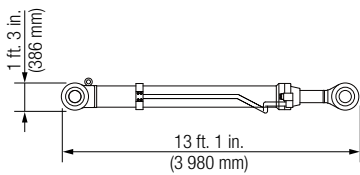
Bucket Assembly



Bucket Capacity	A	B	Max. Width	Weight
	ft. in. (mm)	ft. in. (mm)	ft. in. (mm)	lb. (kg)
19.6 yd³ (15.0 m³)	10 ft. 7 in. (3 220 mm)	10 ft. 9 in. (3 280 mm)	12 ft. 8 in. (3 860 mm)	44,510 lb. (20 190 kg)
21.6 yd³ (16.5 m³)	11 ft. 6 in. (3 500 mm)	10 ft. 11 in. (3 320 mm)	12 ft. 8 in. (3 860 mm)	45,640 lb. (20 700 kg)

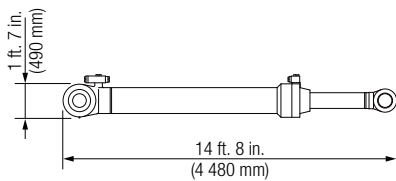
Bucket Cylinders

Weight: 4,123 lb. (1 870 kg) × 2



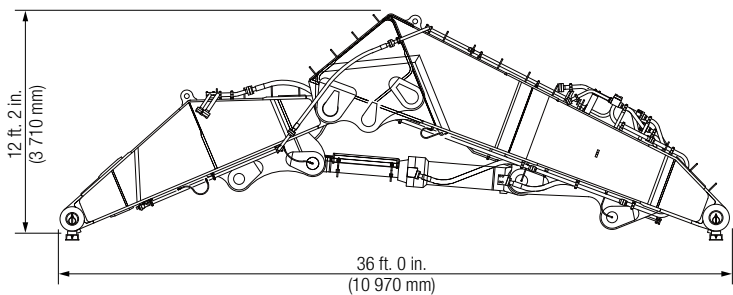
Boom Cylinders

Weight: 6,526 lb. (2 960 kg) × 2



Boom and Arm Assembly

Weight: 68,780 lb. (31 200 kg)

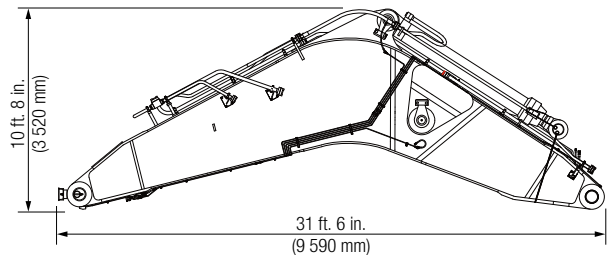


Width: 8 ft. 6 in. (2 600 mm)

BACKHOE ATTACHMENTS

BE-Boom Assembly

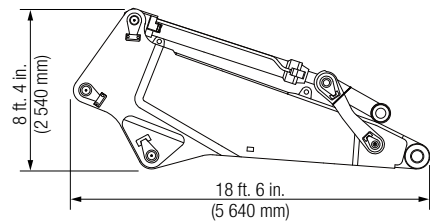
Weight: 66,140 lb. (30 000 kg)



Width: 7 ft. 4 in. (2 240 mm)

BE-Arm Assembly

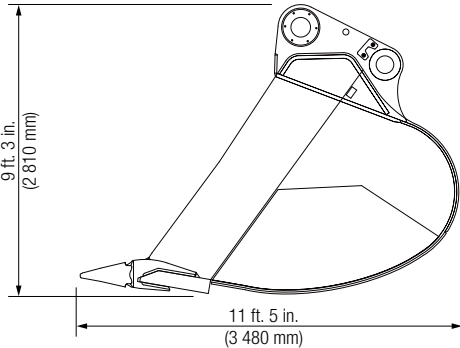
Weight: 35,940 lb. (16 300 kg)



Width: 5 ft. 5 in. (1 640 mm)

Bucket Assembly: 19.6 yd³ (15.0 m³)

Weight: 27,340 lb. (12 400 kg)



Width: 10 ft. 5 in. (3 180 mm)

EX2500-6 SPECIFICATIONS

ENGINE	
Make	Cummins
Model	QSK50-C
Type	4 cycle
Aspiration	Turbocharged and after cooled, direct injection chamber-type diesel engine
Net Power @ 1800 rpm (DIN 6271)	1,351 ps (995 kW)
Net Power @ 1800 rpm (SAE J1349)	1,333 hp (994 kW)
Gross Power @ 1800 rpm (SAE J1995)	1,400 hp (1,044 kW)
Maximum Torque @ 1300 rpm	4,705 lbf-ft (6 379 N-m)
Bore and Stroke	6.3 x 6.3 in. (159 x 159 mm)
Displacement	3,069 cu. in. (50.3 liters)
Batteries	4 x 12 V, 4 x 220 AH
Starting	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.

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

Optimum Hydraulic System
Three tandem-axial piston pump groups (six pumps in total), supply a three-valve hydraulic system enabling both independent and combined operations of all functions.

Additional Features
Fuel-Saving Pump (FPS) system. Auto-idling system. Hydraulically driven cooling-fan system for oil cooler. Forced-lubrication and forced-cooling pump drive system.

Main Pumps	
Four variable-displacement, piston pumps in two tandem-axial pump groups for front attachment and travel.	
Pressure setting	4,270 psi (300 kgf/cm ²) (29.4 MPa)
Max. oil flow	4 x 99 gal/min (4 x 375 L/min)

Swing Pump	
Two variable-displacement, piston pumps in one tandem-axial pump group for front attachment, travel, and swing.	
Pressure setting	4,270 psi (300 kg/cm²) (29.4 MPa)
Max. oil flow	4 x 112.0 gal/min (4 x 425 L/min)

Pilot Pump	
Gear pump	
Pressure setting	565 psi (3.9 MPa) (40 kgf/cm²)
Maximum oil flow	28.5 gal/min (108 L/min)

Relief Valve Settings	
Implement circuit	4,270 psi (300 kgf/cm ²) (29.4 MPa)
Swing circuit	3,980 psi (280 kgf/cm ²) (27.5 MPa)
Travel circuit	4,270 psi (300 kgf/cm ²) (29.4 MPa)
Pilot circuit	565 psi (40 kgf/cm ²) (3.9 MPa)

Hydraulic Cylinders
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.

Dimensions (Backhoe)				Dimensions (Loading Shovel)			
	Quantity	Bore	Rod Diameter		Quantity	Bore	Rod Diameter
Boom	2	12.0 in. (310 mm)	9.0 in. (230 mm)	Boom	2	12.0 in. (310 mm)	9.0 in. (230 mm)
Arm	1	11.0 in. (280 mm)	8.0 in. (210 mm)	Arm	1	11.0 in. (280 mm)	8.0 in. (210 mm)
				Level	1	12.0 in. (310 mm)	9.0 in. (230 mm)
Bucket	1	9.0 in. (230 mm)	7.0 in (170 mm)	Bucket	2	10.0 in. (250 mm)	7.0 in. (180 mm)
				Dump	2	8.5 in. (215 mm)	5.0 in. (130 mm)

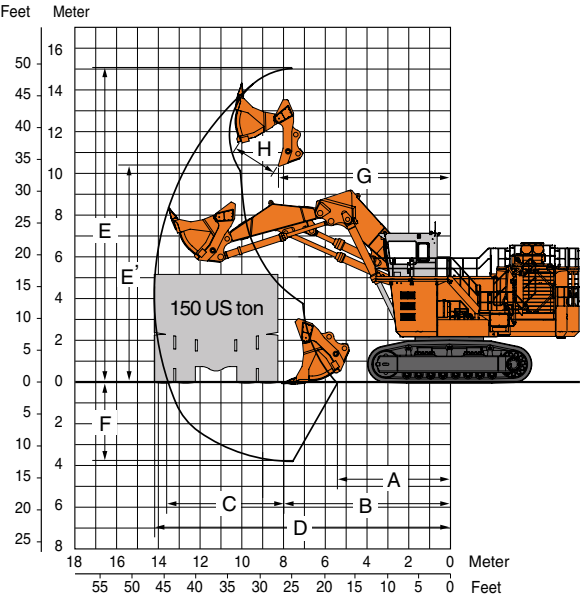
Hydraulic Filters
All hydraulic circuits have high-quality hydraulic filters for protection against oil contamination and longer life of hydraulic components. Filters are centralized for convenient maintenance.

	Quantity	Specifications
Full-flow filter	3	10 μm
High-pressure strainer (in main and swing pump delivery line)	6	80 meshes
Drain filter (for all plunger type pumps and motors)	1	10 um
Pilot filter	1	10 μm
Bypass filter (in oil cooler bypass line)	1	5 μm

EX2500-6 SPECIFICATIONS

LOADING SHOVEL ATTACHMENT

- Boom and arm are of all-welded, low-stress, high-tensile strength steel full-box section design. Efficient, automatic level crowing achieved by one-lever control because parallel link mechanism keeps the bucket digging angle constant, and level cylinder circuit maintains the bucket height constant (Auto-Leveling Crowd Mechanism). Auto-lubrication system for all pins is standard.
- Dual-support-type boom/arm/bucket pin linkage
- Pin seals (in all portions) plus O-ring at arm top
- All cylinders are provided with a cylinder cushion mechanism
- Bucket cylinders with loading shovel are provided with an internal cylinder rod protector



WORKING RANGES—BUCKET CAPACITY: 19.6 yd³ (15.0 m³)

A. Min. digging distance	17 ft. 6 in. (5 340 mm)
B. Min. level crowding distance	26 ft. 0 in. (7 960 mm)
C. Level crowding distance	16 ft. 0 in. (4 980 mm)
D. Max. digging reach	46 ft. 0 in. (14 060 mm)
E. Max. cutting height	49 ft. 0 in. (15 010 mm)
E'. Max. dumping height	34 ft. 0 in. (10 350 mm)
F. Max. digging depth	12 ft. 0 in. (3 720 mm)
G. Working radius at max. dumping height	27 ft. 0 in. (8 140 mm)
H. Max. bucket opening width	7 ft. 0 in. (2 150 mm)
Arm crowding force	206,400 lb. (93 600 kgf) (918 kN)
Breakout force	189,500 lb. (86 000 kgf) (843 kN)

WORKING RANGES—BUCKET CAPACITY: 21.6 yd³ (16.5 m³)

A. Min. digging distance	17 ft. 0 in. (5 200 mm)
B. Min. level crowding distance	27 ft. 0 in. (8 140 mm)
C. Level crowding distance	16 ft. 0 in. (4 980 mm)
D. Max. digging reach	47 ft. 0 in. (14 300 mm)
E. Max. cutting height	50 ft. 0 in. (15 250 mm)
E'. Max. dumping height	34 ft. 0 in. (10 350 mm)
F. Max. digging depth	13 ft. 0 in. (3 960 mm)
G. Working radius at max. dumping height	27 ft. 0 in. (8 140 mm)
H. Max. bucket opening width	7 ft. 0 in. (2 150 mm)
Arm crowding force	203,900 lb. (92 500 kgf) (907 kN)
Breakout force	176,300 lb. (79 900 kgf) (784 kN)

BUCKET (SAE HEAPED 2:1)

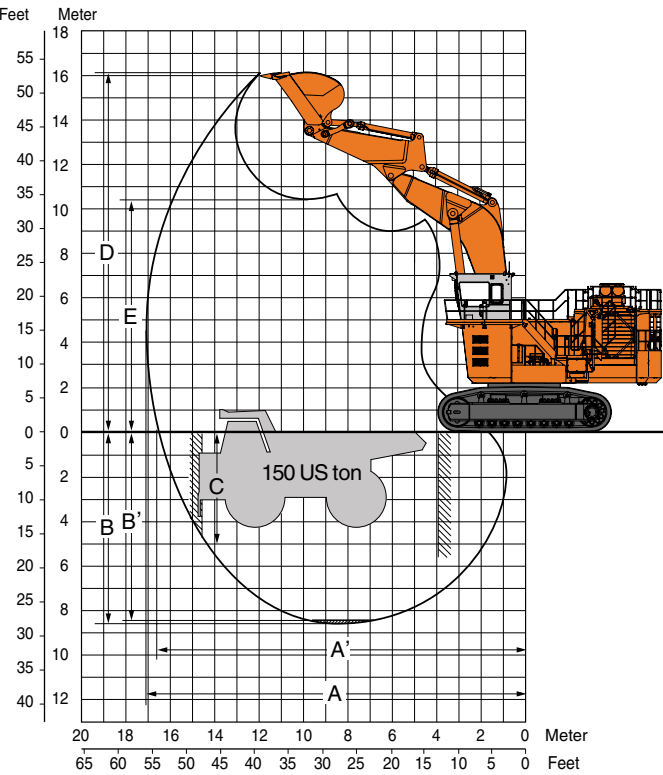
Capacity	Width	Number of Teeth	Weight	Type	Materials Density
19.6 yd³ (15.0 m³)	11 ft. 9 in. (3 590 mm)	6	44,510 lb. (20 190 kg)	Bottom dump type, general purpose	3,033 lb./yd³ (1 800 kg/m³)
21.6 yd³ (16.5 m³)	11 ft. 9 in. (3 590 mm)	6	45,640 lb. (20 700 kg)	Bottom dump type, general purpose	2,700 lb./yd³ (1 600 kg/m³)

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 all-welded, low stress, full-box section design. Bucket of all-welded high-strength steel structure. Bucket/arm joint pins are floating type. Replaceable thrust plates are provided with bucket/arm point part. Auto-lubrication system for all pins is standard.



WORKING RANGES

Boom Length		29 ft. 6 in. (9.0 m)
Arm Length		13 ft. 9 in. (4.2 m)
A. Max. digging reach		56 ft. 0 in. (17 050 mm)
A'. Max. digging reach (on ground)		54 ft. 0 in. (16 500 mm)
B. Max. digging depth		28 ft. 0 in. (8 570 mm)
B'. Max. digging depth (8 ft. level)		28 ft. 0 in. (8 470 mm)
C. Max. cutting height		53 ft. 0 in. (16 160 mm)
D. Max. dumping height		34 ft. 0 in. (10 360 mm)
E. Max. vertical wall depth		17 ft. 0 in. (5 070 mm)
Bucket Digging Force	SAE	168,000 lb. (751 kN)
	ISO	187,000 lb. (832 kN)
Arm Crowd Force	SAE	167,500 lb. (745 kN)
	ISO	185,500 lb. (825 kN)

BUCKET

Capacity	Width	Number of Teeth	Weight	Type	Materials Density
SAE Heaped (1:1)	Without Side Cutters				
19.6 yd³ (15.0 m)	10 ft. 5 in. (3 180 mm)	5	27,340 lb. (12 400 kg)	General purpose bucket	3,033 lb./yd³ (1 800 kg/m³)

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.

EX2500-6 SHIPPING INFORMATION

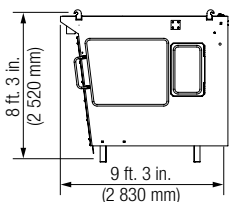
EX2500-6 components are designed for ease of transportation and on-site assembly.

Components can be assembled without welding.

UPPERSTRUCTURE

Cab Assembly

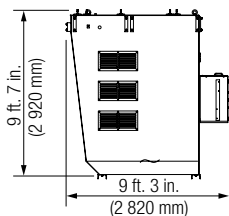
Weight: 3,836 lb. (1 740 kg)



Width: 6 ft. 2 in. (1 880 mm)

Cab Bed

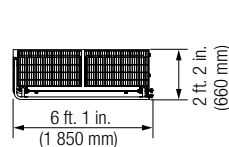
Weight: 5,644 lb. (2 560 kg)



Width: 6 ft. 1 in. (1 860 mm)

Sidewalk

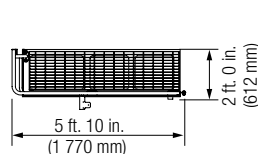
Weight: 163 lb. (74 kg)



Width: 4 ft. 3 in. (1 290 mm)

Sidewalk

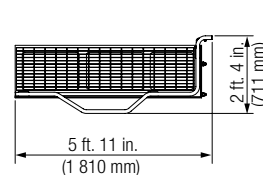
Weight: 154 lb. (70 kg)



Width: 4 ft. 3 in. (1 290 mm)

Sidewalk

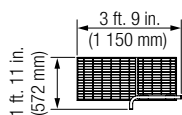
Weight: 170 lb. (77 kg)



Width: 4 ft. 3 in. (1 290 mm)

Step

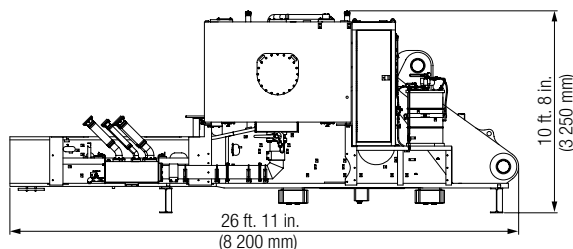
Weight: 124 lb. (56 kg)



Width: 4 ft. 3 in. (1 290 mm)

Main Frame Assembly

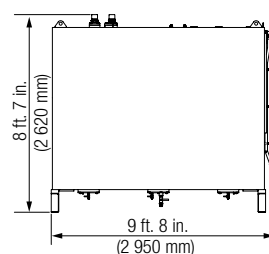
Weight: 79,370 lb. (36 000 kg)



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

Fuel Tank

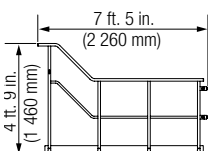
Weight: 5,512 lb. (2 500 kg)



Width: 3 ft. 10 in. (1 180 mm)

Handrail

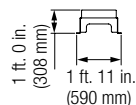
Weight: 66 lb. (30 kg)



Width: 4 in. (102 mm)

Step

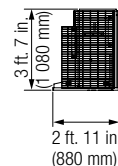
Weight: 35 lb. (16 kg)



Width: 1 ft. 0 in. (315 mm)

Step

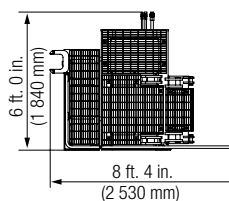
Weight: 1,380 lb. (626 kg)



Width: 7 ft. 4 in. (2 240 mm)

Step

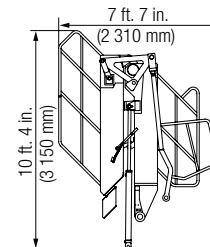
Weight: 2,154 lb. (977 kg)



Width: 7 ft. 4 in. (2 240 mm)

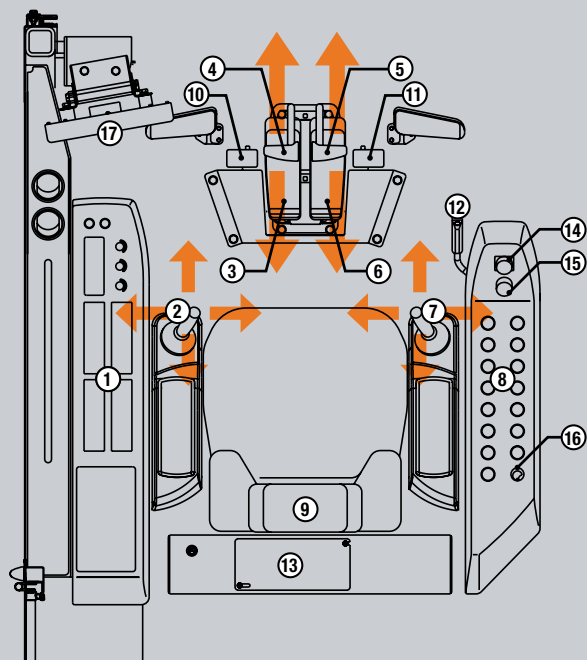
Ladder

Weight: 1,830 lb. (830 kg)



Width: 3 ft. 3 in. (992 mm)

BACKHOE CONTROL LAYOUT

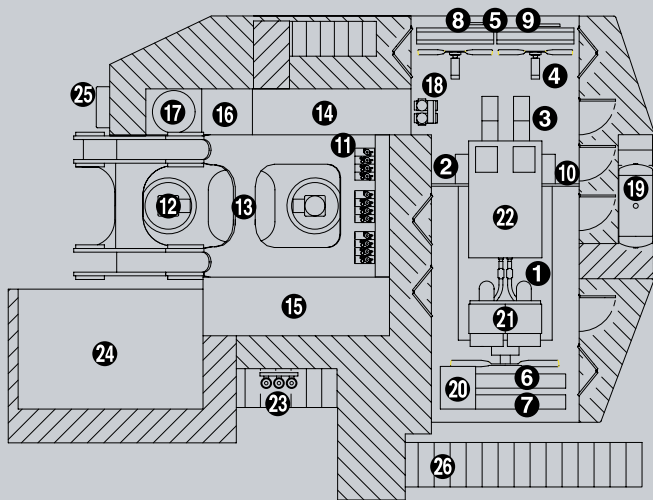


- 1. Left Console
- 2. Left Control Lever/Horn Switch
- 3. Left Travel Pedal
- 4. Left Travel Lever
- 5. Right Travel Lever
- 6. Right Travel Pedal
- 7. Right Control Lever/Horn Switch
- 8. Right Console
- 9. Operator's Seat
- 10. Bucket Close Pedal (For Loading Shovel)
- 11. Bucket Open Pedal (For Loading 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

	U.S. Gallons	Liters	Imperial Gallons
Fuel Tank	1,321	5 000	1,100
Engine Coolant	126	476	104.7
Engine Oil	100	378	83.1
Pump Drive	7	26	5.7
Swing Device (each side)	2 x 26	2 x 100	2 x 22.0
Travel Final Device (each side)	2 x 36	2 x 137	2 x 30.1
Hydraulic Tank	290	1 100	242.0
Hydraulic System	779	2 950	648.9

DECK MACHINERY LAYOUT



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

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