MINING EXCAVATOR

EX5600-6 SALES BROCHURE

EX5600

BUCKET CAPACITY:
BACKHOE (SAE HEAPED 1:1): 34 m³ (44.5 cu. yd.)
SHOVEL (SAE HEAPED 2:1): 27 - 30.6 m³ (35.3 - 40 cu. yd.)

OPERATING WEIGHT:
BACKHOE: 537 000 kg (1,183,882 lb.)
SHOVEL: 533 000 kg (1,175,064 lb.)

RATED POWER:
2 x 1119 kW (2 x 1,500 hp)

HITACHI
It’s no coincidence that over one-third of all hydraulic mining excavators working across the world are Hitachi. All of our excavators, like the EX5600-6, are engineered to give you efficiency, reliability and durability for all kinds of jobs. You get strong horsepower, efficient engines, comfortable cabs, advanced hydraulics, tough frames, powerful arm and bucket-digging forces and more. When you choose the EX5600-6, you get a...
SPECIALISTS
### Productivity

#### Bucket Passes to Dump Trucks

<table>
<thead>
<tr>
<th>Truck</th>
<th>Nominal Payload</th>
<th>Bucket Capacity</th>
<th>Passes to Fill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shovel EH3500AC-3</td>
<td>181 tonnes (200 tons)</td>
<td>29-m³ (38 cu. yd.) Bucket</td>
<td>1   2   3 4</td>
</tr>
<tr>
<td>Backhoe EH3500AC-3</td>
<td>181 tonnes (200 tons)</td>
<td>34-m³ (44.5 cu. yd.) Bucket</td>
<td>1   2   3 4</td>
</tr>
<tr>
<td>Shovel EH4000AC-3</td>
<td>221 tonnes (243.6 tons)</td>
<td>29-m³ (38 cu. yd.) Bucket</td>
<td>1   2   3 4</td>
</tr>
<tr>
<td>Backhoe EH4000AC-3</td>
<td>221 tonnes (243.6 tons)</td>
<td>34-m³ (44.5 cu. yd.) Bucket</td>
<td>1   2   3 4</td>
</tr>
<tr>
<td>Shovel EH5000AC-3</td>
<td>296 tonnes (326 tons)</td>
<td>29-m³ (38 cu. yd.) Bucket</td>
<td>1   2   3 4</td>
</tr>
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</table>
MAJOR PRODUCTION
IN THE TOUGHEST CONDITIONS.

The EX5600-6 is built to tackle your tough jobs. Twin Cummins QSKTA50-CE engines provide powerful performance with an Engine-Pump Control (E-P Control) system that efficiently adjusts power to your load demand. The advanced hydraulic system tops the industry for smooth, efficient combined operations of the front attachment and swing, delivering quick cycle times. This system, combined with the Hitachi-patented auto-leveling mechanism and large bucket capacities, contributes to efficient production. The EX5600-6 pairs well with the EH3500AC-3, EH4000-AC3 and EH5000AC-3 trucks and is available in a backhoe or front-shovel configuration. Add the EX5600-6 to your fleet, so you can...

PROVEN PRODUCTIVITY.

- **Powerful Engine.** Twin Cummins QSKTA50-CE diesel engines meet U.S. EPA Tier 2 emission regulations.
- **Efficient E-P Control.** The computer-aided Engine-Pump Control (E-P Control) system senses load demand and adjusts power to the work being performed.
- **Large, Efficient Bucket.** The large bucket is shaped specifically to enhance digging and loading operations. Its sharp tilt angle helps boost operating efficiency by allowing the operator better use of the bucket digging forces, and after digging, keeping more of the material in the bucket while loading the haul truck.
- **Auto-Level Mechanism.** An exclusive Hitachi feature available on front shovel attachments, the one-lever leveling control boosts productivity through efficient operation of the bucket through the dig cycle.

WORK ANYWHERE, ANYTIME.
MORE DURABILITY. MORE UPTIME.

The EX5600-6 is designed and built with strength you can count on. Toughness is built-in with the rigid box design and integrated cast steel structures into the center track frame. High-mounted travel motors are guarded against rock damage, and strategically positioned oil coolers are designed to give you more uptime. Add it all up, and the EX5600-6 is...

**STRENGTH BUILT IN.**

- The rigid box design resists bending and twisting forces, giving you stability and strength on any job.
- High-mounted compact travel motors are protected from rock damage. Optional travel motor guards provide an even higher level of protection from damage.
- The cast steel structures, integrated into the center track frame, assist in avoiding stress concentration and increase reliability.
- Two oil coolers are strategically positioned far from the engine radiator for even better cooling potential.

**DURABLE AND EFFICIENT.**

[Image with various pictures related to the EX5600-6's durability and efficiency features.]
- Rugged track links include roller guides to help extend service life.

- With constant correct track tension, travel is automatically stopped if the nitrogen gas accumulator pressure exceeds a preset level. Alert information and countermeasures are indicated on the multi-display LCD monitor.
The 7.64-meter (25.1 ft.) high, forward-sloping cab provides a clear view of the work site – even when loading trucks.

The sturdy cab protects operators from falling objects. The cab’s top guard meets OPG Level II (ISO) standards. The entire cab sits on a package of fluid-filled elastic mounts that absorb vibration for a more comfortable ride.

The air suspension, multi-position seat can be customized to the operator’s needs and adjusted according to operator weight.

The well-insulated, pressurized cab keeps out dust and is air conditioned.
The EX5600-6 cab is designed to keep operators as comfortable, efficient and productive as possible. The well-insulated, pressurized cab keeps dust out while maintaining a comfortable temperature thanks to a highly efficient heating/air conditioning system. Operators of all sizes have plenty of legroom and storage space with the cab’s ergonomic design, which helps operators stay productive even on long work shifts. With the EX5600-6, you get...

**COMFORTABLE CAB**

**FOR PRODUCTIVE OPERATORS.**

**EFFICIENT AND SAFE SPACE.**

- The multi-display, color LCD monitor provides machine data, operating status and alerts at a glance. The monitor can be preset to indicate replacement intervals for engine oil, hydraulic oil and filters.
- Electric joystick control levers provide precise and almost effortless operation.
- Four optional outside cameras can be mounted around the machine for enhanced visibility and help eliminate blind spots.

**MORE COMFORT, MORE PRODUCTIVITY.**
EXTENDED PRODUCTIVITY. MINIMIZED MAINTENANCE.

LOWER OPERATING COSTS.

When it comes to maintenance, the EX5600-6 provides big advantages. The simple servicing, inspection and cleaning of the EX5600-6 reduces costs and allows you to focus on finishing jobs. This excavator features easy-to-check sight gauges and fluid reservoirs, quick-change remote-mounted filters, advanced self-diagnostics and extended filter replacement intervals. When you’re operating an EX5600-6, you save time and money while getting...

MORE UPTIME. LESS MAINTENANCE.

- Folding stairs with wide steps allow for easy accessibility, servicing and maintenance.
- The centralized filter system makes inspection and maintenance quicker and more convenient.
- A contamination sensor alerts the operator before it’s too late of accumulated contaminants in the oil that could cause damage.
- Located at the center of the machine, a wide-open service area gives you access to the engine as well as hydraulic and electrical systems.
A walkway around the entire counterweight provides easy access to rear areas for faster, safer inspections and maintenance.

An ejector automatically expels dust from the air cleaner, giving you one less maintenance task.

The auto-lubrication system for the front joint pins and swing circle saves you time.
WHAT YOU NEED, WHEN YOU NEED IT.

QUICK SUPPORT. NO HASSLE.

At Hitachi, we specialize in excavators and trucks. So you can count on us to respond rapidly when you need support. You’ll get the parts you need, the service you want and the customer support you deserve. We stand behind you with a strong dealer network; a skilled factory support team; trained mechanics; and one of the best, most comprehensive warranty and maintenance programs available. We focus on supporting you and...

YOUR BOTTOM LINE.

Remote Machine Management with Global e-Service.
This online machine management system allows you to access each on-site machine from a PC in your office. You can get its operating information and location to increase productivity. Operating data and log are sent to a Hitachi server for processing, and then to customer and dealers. This system is available 24/7/365.

Note: In some regions, the Satellite Communication Device is not available by local regulations; the GPRS (mobile) communication device is an option for these regions.
* DTU (Data Transfer Unit) (optional) is required for connection to fleet management systems.
**WIU (Wireless Interface Unit) transmits operating data via wireless connection for downloading data.
**Diesel Engine**

Manufacturer and Model: Cummins QSX150-CE

Type: 4 cycle

Aspiration: Water-cooled, 16-cylinder, turbocharged and aftercooled, direct-injection chamber-type diesel engine

Emission certification: U.S. EPA Tier 2

Rated power:
- Gross (SAE J1995): 2 x 119 kW (2 x 150 hp) @ 1800 min⁻¹ (rpm)
- Net: 2 x 106.9 kW (2 x 143 hp) @ 1800 min⁻¹ (rpm)
- Maximum torque: 2 x 670 Nm (2 x 670 kgf-m) @ 1400 min⁻¹ (rpm)

Bore and stroke: 159 mm x 159 mm (6.3 in. x 6.3 in.)

Starting system: 24 V electric motor

Batteries: 6 x 12 V, 6 x 220 AH

Cold starting: Ether aided

**Electric Motor**

Manufacturer and Model: HITACHI TFOA-KK

Type: High voltage, three-phase, squirrel cage induction motor, totally enclosed air-to-air-cooled (TEAAC).

Aspiration: High voltage, three-phase, squirrel cage induction motor.

Motor, totally enclosed air-to-air-cooled (TEAAC).

Rating:
- Rated continuous output: 860 kW x 2

Voltage:
- AC 6000 - 6600 V / 50 Hz
- AC 6600 - 6900 V / 60 Hz

Number of poles: 4

Synchronous RPM:
- 1 500 min⁻¹ / 50 Hz
- 1 800 min⁻¹ / 60 Hz

Rated current: 97 A x 2 @ 6600 V

Insulation class: F class B raise

Space heater included

Thermo-guard (temperature detector)

Starting condition: Reactor 50% tap

**Hydraulic System**

Hitachi’s ETS (Electronic Total control System) can achieve maximum job efficiency by reducing fuel consumption and noise levels, while maximizing productivity through the optimization of engine-pump functions with excellent controllability increasing operator comfort.

Computer-Aided Engine-Pump Control System (E-P Control)

Main pumps regulated by electric engine speed sensing control system.

Optimum Hydraulic System (OHS)

Six tandem-axial piston pump groups (12 pumps in total), supply a six-valve hydraulic system enabling both independent and combined operations of all functions.

Additionl Features

Fuel-saving Pump System (FPS) minimizes energy loss with superior performance in fine control

Auto-idle system saves fuel and reduces noise

Hydraulic drive cooling-fan system for oil cooler

Forced-lubrication and forced-cooling pump drive system

Main Pumps

12 variable-displacement, axial piston pumps for front attachment, travel and swing

Maximum oil flow: 8 x 375 L/min (8 x 99.1 gal./min.), 4 x 425 L/min (4 x 112.3 gal./min.)

Pilot Pump

Gear pump (2)

Maximum oil flow: 2 x 108 L/min. (28.5 gal./min.)

Relief Valve Settings

Implement circuit: 29.4 MPa (300 kgf/cm²) (4,264 psi)

Travel circuit: 29.4 MPa (300 kgf/cm²) (4,264 psi)

Swing circuit: 24.5 MPa (250 kgf/cm²) (3,553 psi)

Pilot circuit: 3.9 MPa (40 kgf/cm²) (566 psi)

**Hydraulic Cylinders**

High-strength piston rods and tubes adopted. Cylinder cushion mechanisms are provided for boom, arm, bucket and dump cylinders.

Bucket cylinders of loading shovel are provided with protector.
Two Implement Levers

Electric joystick control levers. Right lever is for boom and bucket control, left lever for swing and arm control.

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.

Cylinder Dimensions (Backhoe)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Bore</th>
<th>Rod Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE-Boom</td>
<td>2</td>
<td>420 mm (16.5 in.)</td>
</tr>
<tr>
<td>BE-Arm</td>
<td>2</td>
<td>360 mm (14.2 in.)</td>
</tr>
<tr>
<td>Bucket</td>
<td>2</td>
<td>310 mm (12.2 in.)</td>
</tr>
</tbody>
</table>

Cylinder Dimensions (Loading Shovel)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Bore</th>
<th>Rod Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>2</td>
<td>420 mm (16.5 in.)</td>
</tr>
<tr>
<td>Arm</td>
<td>1</td>
<td>360 mm (14.2 in.)</td>
</tr>
<tr>
<td>Bucket</td>
<td>2</td>
<td>340 mm (13.4 in.)</td>
</tr>
<tr>
<td>Dump</td>
<td>2</td>
<td>280 mm (11 in.)</td>
</tr>
<tr>
<td>Level</td>
<td>1</td>
<td>420 mm (16.5 in.)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Quantity</th>
<th>Bore</th>
<th>Filter Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Full-flow filter</td>
<td></td>
<td>10 µm</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>High-pressure strainer (main)</td>
<td></td>
<td>120 µm</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Drain filter (plunger pumps)</td>
<td></td>
<td>10 µm</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Bypass filter (oil cooler)</td>
<td></td>
<td>5 µm</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Pilot filter</td>
<td></td>
<td>10 µm</td>
<td></td>
</tr>
</tbody>
</table>

Objective 2: With the given data, create a summary of the document.

The EX5600-6 excavator features two implement levers for boom and bucket control, and swing and arm control. Two pedals are provided for opening the bottom dump bucket. The remote-controlled hydraulic servo system allows independent drive at each track for counter rotation.

The cylinder dimensions for the backhoe and loading shovel are detailed in the table above. The hydraulic filters ensure protection against oil contamination and extended component life.

The controls are labeled from 1 to 17, with each section having a detailed description.

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

DIESEL ENGINE CONTROLS
Upperstructure EX5600-6

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

Deck Machinery
Maintenance accessibility is the major feature in the layout of deck machinery. Sidewalks provide easy access to engine, hydraulic, and electrical components.

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

Upperstructure EX5600E-6

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

Deck Machinery
Maintenance accessibility is the major feature in the layout of deck machinery. Sidewalks provide easy access to engine, hydraulic, and electrical components.

1 Main Motor x 2
2 Coupler x 2
3 Pump Drive Unit x 2
4 Hydraulic Pump x 12
5 Hydraulic Oil Cooling Fan Motor x 2
6 Hydraulic Oil Cooler x 4
7 Lubricator
8 Pump Transmission Oil Cooler x 2
9 Pump Transmission Oil Cooler x 2
10 Motor-Pump Bulkhead x 2
11 Hydraulic Oil Tank
12 Cubicle
13 Control Valve x 6
14 Swing Device x 4
15 Slip Ring
16 Center Joint
17 High-Pressure Strainer x 12
18 Battery x 2
19 Cab
20 Folding Stairs
21 Ladder
22 Cab Heater Unit
Swing Device
Four high-torque, axial-piston motors with two-stage planetary 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 of springset/hydraulic-released disc type. This parking brake is manually releasable.

Swing speed
3.3 min⁻¹ (rpm)

Operator's Cab
The sturdy cab, with the top guard conforming to OPG Level II (ISO), helps protect the operator from falling objects. 1800-mm (5 ft. 11 in.) width, 2150-mm (7 ft. 1 in.) height, roomy 7.5-m³ (9.8 cu. yd.) cab with tinted-glass windows features all-around visibility. Air-suspension type, fully adjustable reclining seat with armrests; movable with or without front and swing control levers by slide. Multi-display (267-mm [10.5 in.] LCD) for centralized information of machine status. Color monitor cameras for rear, right side and left lower views. Three separate pressurized air-conditioning systems.

Noise level
75 dB(A) in the cab at maximum engine speed under no-load condition

Eye-level height
7640 mm (25 ft. 1 in.)

Undercarriage

Tracks

Shovel-Type Undercarriage
Triple grouser track shoes of induction-hardened cast steel
Shoe width
1400 mm (55 in.)

Number of Rollers and Shoes (each side)
Upper rollers
3

Lower rollers
7

Track shoes
39

Travel 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 springset/hydraulic-released disc type. This parking brake is manually releasable.

Travel speeds
Low: 0 – 1.6 km/h (0 – 1 mph)
High: 0 – 2.3 km/h (0 – 1.4 mph)

Maximum traction force
2230 kN/227 000 kgf (500,449 lbf.)

Gradeability
58% (30°) maximum

Weights and Ground Pressure

Loading Shovel
Equipped with 29-m³ (38 cu. yd.) (SAE heaped 2:1) bottom-dump bucket.

Diesel Engine

<table>
<thead>
<tr>
<th>Shoe Type</th>
<th>Shoe Width</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple Grousers</td>
<td>1400 mm</td>
<td>533 000 kg (1,175,064 lb.)</td>
<td>234 kPa (2.39 kgf/cm²) (33.9 psi)</td>
</tr>
<tr>
<td>Electric Motor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triple Grousers</td>
<td>1400 mm</td>
<td>527 000 kg (1,161,836 lb.)</td>
<td>232 kPa (2.37 kgf/cm²) (33.6 psi)</td>
</tr>
</tbody>
</table>

Backhoe
Equipped with 10.1-m (33 ft. 2 in.) BE boom, 5-m (16 ft. 5 in.) BE arm, and 34-m³ (44.5 cu. yd.) (SAE heaped 1:1) bucket.

Diesel Engine

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<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
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<tr>
<td>Triple Grousers</td>
<td>1400 mm</td>
<td>537 000 kg (1,183,882 lb.)</td>
<td>236 kPa (2.41 kgf/cm²) (34.2 psi)</td>
</tr>
<tr>
<td>Electric Motor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triple Grousers</td>
<td>1400 mm</td>
<td>531 000 kg (1,170,655 lb.)</td>
<td>234 kPa (2.38 kgf/cm²) (33.9 psi)</td>
</tr>
</tbody>
</table>

Service Refill Capabilities

| Fuel tank         | 11 300 L (2,985 gal.) |
| Engine coolant    | 2 x 450 L (2 x 119 gal.) |
| Engine oil pan    | 2 x 150 L (2 x 40 gal.) |
| Engine oil reserve tank | 2 x 205 L (2 x 54 gal.) |
| Pump transmission device | 2 x 30 L (2 x 8 gal.) |
| Swing device      | 4 x 84 L (4 x 22 gal.) |
| Travel device     | 2 x 340 L (2 x 90 gal.) |
| Hydraulic system  | 6200 L (1,638 gal.) |
| Hydraulic oil tank | 2200 L (581 gal.) |
### MINING EXCAVATOR

#### EX5600-6

**Leading Shovel Attachment**

**Bucket**
- Bucket Capacity (SAE Heaped 2:1):
  - 27-m³ (35.3 cu. yd.): 6150 mm (20 ft. 2 in.)
  - 29-m³ (38 cu. yd.): 6400 mm (21 ft.)
- Min digging distance:
  - 27-m³ (35.3 cu. yd.): 6150 mm (20 ft. 2 in.)
  - 29-m³ (38 cu. yd.): 6400 mm (21 ft.)
- Min level crowding distance:
  - 27-m³ (35.3 cu. yd.): 9800 mm (32 ft. 2 in.)
  - 29-m³ (38 cu. yd.): 10050 mm (33 ft.)
- Level crowding distance:
  - 27-m³ (35.3 cu. yd.): 5550 mm (18 ft. 3 in.)
  - 29-m³ (38 cu. yd.): 5350 mm (17 ft. 7 in.)
- Max digging reach:
  - 27-m³ (35.3 cu. yd.): 16600 mm (54 ft. 6 in.)
  - 29-m³ (38 cu. yd.): 17000 mm (55 ft. 9 in.)
- Max cutting height:
  - 27-m³ (35.3 cu. yd.): 18900 mm (62 ft.)
  - 29-m³ (38 cu. yd.): 19200 mm (63 ft.)
- Max dumping height:
  - 27-m³ (35.3 cu. yd.): 13100 mm (43 ft.)
  - 29-m³ (38 cu. yd.): 13100 mm (43 ft.)
- Max digging depth:
  - 27-m³ (35.3 cu. yd.): 4550 mm (14 ft. 11 in.)
  - 29-m³ (38 cu. yd.): 4800 mm (15 ft. 9 in.)
- Working radius at max dumping height:
  - 27-m³ (35.3 cu. yd.): 8900 mm (29 ft. 2 in.)
  - 29-m³ (38 cu. yd.): 8900 mm (29 ft. 2 in.)
- Max bucket opening width:
  - 27-m³ (35.3 cu. yd.): 2700 mm (8 ft. 10 in.)
  - 29-m³ (38 cu. yd.): 2700 mm (8 ft. 10 in.)
- Bucket digging force:
  - 27-m³ (35.3 cu. yd.): 1710 kN / 174,000 kgf (384,423 lbf.)
  - 29-m³ (38 cu. yd.): 1590 kN / 162,000 kgf (357,446 lbf.)
- Arm crowding force:
  - 27-m³ (35.3 cu. yd.): 1570 kN / 160,000 kgf (352,950 lbf.)
  - 29-m³ (38 cu. yd.): 1520 kN / 155,000 kgf (341,710 lbf.)

**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.

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**Bucket digging force:**

- 27-m³ (35.3 cu. yd.): 1710 kN / 174,000 kgf (384,423 lbf.)
- 29-m³ (38 cu. yd.): 1590 kN / 162,000 kgf (357,446 lbf.)

**Arm crowding force:**

- 27-m³ (35.3 cu. yd.): 1570 kN / 160,000 kgf (352,950 lbf.)
- 29-m³ (38 cu. yd.): 1520 kN / 155,000 kgf (341,710 lbf.)

**Bucket**
- Bucket Capacity (SAE Heaped 2:1):
  - 27-m³ (35.3 cu. yd.): 4800 mm (15 ft. 9 in.)
  - 29-m³ (38 cu. yd.): 4800 mm (15 ft. 9 in.)
- Number of Teeth:
  - 27-m³ (35.3 cu. yd.): 6
  - 29-m³ (38 cu. yd.): 6
- Weight:
  - 27-m³ (35.3 cu. yd.): 44,100 kg (97,224 lb.)
  - 29-m³ (38 cu. yd.): 45,100 kg (99,428 lb.)
- Type:
  - 27-m³ (35.3 cu. yd.): Bottom-dump-type general purpose
  - 29-m³ (38 cu. yd.): Bottom-dump-type general purpose
- Materials density:
  - 27-m³ (35.3 cu. yd.): 1900 kg/m³ (3,203 lb./cu. yd.) or less
  - 29-m³ (38 cu. yd.): 1800 kg/m³ (3,034 lb./cu. yd.) or less

**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.
**Bucket**

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

<table>
<thead>
<tr>
<th>Capacity (SAE heaped 1:1)</th>
<th>Width (with side cutters)</th>
<th>Number of Teeth</th>
<th>Weight</th>
<th>Type</th>
<th>Materials density</th>
</tr>
</thead>
<tbody>
<tr>
<td>34 m³ (44.5 cu. yd.)</td>
<td>4640 mm (15 ft. 3 in.)</td>
<td>5</td>
<td>33,400 kg (73,634 lb.)</td>
<td>General purpose</td>
<td>1800 kg/m³ (3,034 lb./cu. yd.) or less</td>
</tr>
</tbody>
</table>

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.

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**Working Ranges**

<table>
<thead>
<tr>
<th>Working</th>
<th>Range</th>
<th>Units</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>BE-boom length</td>
<td>10.1 m (33 ft. 2 in.)</td>
<td>BE</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>BE-arm length</td>
<td>5 m (16 ft. 5 in.)</td>
<td>BE</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>A Max digging reach</td>
<td>20 200 mm (66 ft. 3 in.)</td>
<td>A</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>A Max digging reach (on ground)</td>
<td>19 400 mm (63 ft. 8 in.)</td>
<td>A</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>B Max digging depth</td>
<td>8800 mm (28 ft. 11 in.)</td>
<td>B</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>B' Max digging depth (2.5 m level)</td>
<td>8700 mm (28 ft. 7 in.)</td>
<td>B'</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>C Max cutting height</td>
<td>19 700 mm (64 ft. 8 in.)</td>
<td>C</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>D Max dumping height</td>
<td>12 200 mm (40 ft.)</td>
<td>D</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>D' Min dumping height</td>
<td>5200 mm (17 ft. 1 in.)</td>
<td>D'</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>E Min swing radius</td>
<td>9900 mm (32 ft. 6 in.)</td>
<td>E</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>F Max vertical wall</td>
<td>4300 mm (14 ft. 1 in.)</td>
<td>F</td>
</tr>
<tr>
<td>Backhoe Wheel Loader EX5600-6</td>
<td>G Min level crowding distance</td>
<td>7200 mm (23 ft. 8 in.)</td>
<td>G</td>
</tr>
</tbody>
</table>

**Bucket digging force**

- **SAE**: 1 370 kN / 140 000 kgf (307,988 lbf.)
- **ISO**: 1 480 kN / 151 000 kgf (332,717 lbf.)

**Arm crowding force**

- **SAE**: 1 280 kN / 131 000 kgf (287,755 lbf.)
- **ISO**: 1 300 kN / 133 000 kgf (292,252 lbf.)
**TRANSPORTATION**

**Upperstructure**

- **CAR**
  - Weight: 1800 kg (3,968 lb.)
  - Width: 1880 mm (6 ft. 2 in.)

- **MAINFRAME ASSEMBLY**
  - Weight: 48 300 kg (106,483 lb.)
  - Width: 3500 mm (11 ft. 6 in.)

- **VALVE ASSEMBLY**
  - Weight: 7540 kg (16,623 lb.)
  - Width: 3090 mm (10 ft. 2 in.)

- **HYDRAULIC OIL TANK**
  - Weight: 6730 kg (14,837 lb.)
  - Width: 2310 mm (7 ft. 7 in.)

- **FUEL TANK**
  - Weight: 4120 kg (9,083 lb.)
  - Width: 2400 mm (7 ft. 11 in.)

- **ENGINE UNIT (LEFT)**
  - Weight: 26 500 kg (58,422 lb.)
  - Width: 2600 mm (8 ft. 6 in.)

- **MUFFLERS AND AIR CLEANERS ASSEMBLY**
  - Weight: 1040 kg (2,293 lb.)
  - Width: 1350 mm (4 ft. 5 in.)

- **ENGINE UNIT (RIGHT)**
  - Weight: 27 300 kg (60,186 lb.)
  - Width: 2400 mm (7 ft. 11 in.)

- **FUEL COOLER UNIT**
  - Weight: 53 kg (117 lb.)
  - Width: 402 mm (16 in.)
<table>
<thead>
<tr>
<th>Content</th>
<th>Quantity</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>1</td>
<td>1014 mm (3 ft. 4 in.)</td>
<td>808 mm (32 in.)</td>
<td>1810 mm (5 ft. 11 in.)</td>
<td>75 kg (165 lb.)</td>
</tr>
<tr>
<td>Step 2</td>
<td>1</td>
<td>1100 mm (3 ft. 7 in.)</td>
<td>36 mm (1 in.)</td>
<td>573 mm (23 in.)</td>
<td>21 kg (46 lb.)</td>
</tr>
<tr>
<td>Step 3</td>
<td>1</td>
<td>973 mm (3 ft. 2 in.)</td>
<td>137 mm (5 in.)</td>
<td>573 mm (23 in.)</td>
<td>18 kg (40 lb.)</td>
</tr>
<tr>
<td>Step 4</td>
<td>2</td>
<td>970 mm (3 ft. 2 in.)</td>
<td>40 mm (2 in.)</td>
<td>550 mm (22 in.)</td>
<td>15 kg (33 lb.)</td>
</tr>
<tr>
<td>Step 5</td>
<td>1</td>
<td>550 mm (22 in.)</td>
<td>40 mm (2 in.)</td>
<td>550 mm (22 in.)</td>
<td>8 kg (18 lb.)</td>
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<tr>
<td>Step 6</td>
<td>1</td>
<td>546 mm (22 in.)</td>
<td>131 mm (5 in.)</td>
<td>605 mm (24 in.)</td>
<td>9 kg (20 lb.)</td>
</tr>
<tr>
<td>Step 7</td>
<td>1</td>
<td>1840 mm (6 ft.)</td>
<td>620 mm (24 in.)</td>
<td>1280 mm (4 ft. 2 in.)</td>
<td>67 kg (148 lb.)</td>
</tr>
<tr>
<td>Step 8</td>
<td>1</td>
<td>1720 mm (5 ft. 8 in.)</td>
<td>719 mm (28 in.)</td>
<td>1290 mm (4 ft. 3 in.)</td>
<td>96 kg (212 lb.)</td>
</tr>
<tr>
<td>Step 9</td>
<td>1</td>
<td>1770 mm (5 ft. 10 in.)</td>
<td>687 mm (27 in.)</td>
<td>1290 mm (4 ft. 3 in.)</td>
<td>112 kg (247 lb.)</td>
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<tr>
<td>Step 10</td>
<td>1</td>
<td>1680 mm (5 ft. 6 in.)</td>
<td>552 mm (22 in.)</td>
<td>1290 mm (4 ft. 3 in.)</td>
<td>78 kg (172 lb.)</td>
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<tr>
<td>Step 11</td>
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<td>1650 mm (5 ft. 7 in.)</td>
<td>577 mm (23 in.)</td>
<td>1290 mm (4 ft. 3 in.)</td>
<td>85 kg (187 lb.)</td>
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<tr>
<td>Step 12</td>
<td>1</td>
<td>791 mm (26 in.)</td>
<td>710 mm (28 in.)</td>
<td>340 mm (13 in.)</td>
<td>53 kg (117 lb.)</td>
</tr>
<tr>
<td>Handrail 1</td>
<td>2</td>
<td>1920 mm (6 ft. 4 in.)</td>
<td>1230 mm (4 ft.)</td>
<td>981 mm (3 ft. 3 in.)</td>
<td>20 kg (44 lb.)</td>
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<tr>
<td>Handrail 2</td>
<td>2</td>
<td>2460 mm (8 ft. 1 in.)</td>
<td>343 mm (14 in.)</td>
<td>981 mm (3 ft. 3 in.)</td>
<td>25 kg (55 lb.)</td>
</tr>
<tr>
<td>Handrail 3</td>
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<td>1310 mm (4 ft. 3 in.)</td>
<td>266 mm (10 in.)</td>
<td>992 mm (3 ft. 3 in.)</td>
<td>23 kg (51 lb.)</td>
</tr>
<tr>
<td>Handrail 4</td>
<td>1</td>
<td>399 mm (3 ft.)</td>
<td>266 mm (10 in.)</td>
<td>992 mm (3 ft. 3 in.)</td>
<td>12 kg (26 lb.)</td>
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<tr>
<td>Handrail 5</td>
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<td>905 mm (36 in.)</td>
<td>767 mm (30 in.)</td>
<td>1020 mm (3 ft. 4 in.)</td>
<td>24 kg (53 lb.)</td>
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<tr>
<td>Handrail 6</td>
<td>1</td>
<td>254 mm (10 in.)</td>
<td>331 mm (13 in.)</td>
<td>1150 mm (3 ft. 9 in.)</td>
<td>12 kg (26 lb.)</td>
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<tr>
<td>Handrail 7</td>
<td>1</td>
<td>771 mm (30 in.)</td>
<td>265 mm (10 in.)</td>
<td>1860 mm (6 ft. 1 in.)</td>
<td>23 kg (51 lb.)</td>
</tr>
<tr>
<td>Handrail 8</td>
<td>1</td>
<td>1290 mm (4 ft. 2 in.)</td>
<td>348 mm (14 in.)</td>
<td>1580 mm (5 ft. 2 in.)</td>
<td>17 kg (37 lb.)</td>
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<tr>
<td>Handrail 9</td>
<td>1</td>
<td>580 mm (23 in.)</td>
<td>322 mm (13 in.)</td>
<td>1580 mm (5 ft. 2 in.)</td>
<td>15 kg (33 lb.)</td>
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<tr>
<td>Handrail 10</td>
<td>1</td>
<td>1930 mm (6 ft. 4 in.)</td>
<td>223 mm (9 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>28 kg (62 lb.)</td>
</tr>
<tr>
<td>Handrail 11</td>
<td>1</td>
<td>1250 mm (4 ft. 1 in.)</td>
<td>55 mm (2 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>16 kg (35 lb.)</td>
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<tr>
<td>Handrail 12</td>
<td>1</td>
<td>2410 mm (7 ft. 11 in.)</td>
<td>267 mm (11 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>36 kg (79 lb.)</td>
</tr>
<tr>
<td>Handrail 13</td>
<td>1</td>
<td>2410 mm (7 ft. 11 in.)</td>
<td>267 mm (11 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>32 kg (71 lb.)</td>
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<tr>
<td>Handrail 14</td>
<td>1</td>
<td>2500 mm (8 ft. 3 in.)</td>
<td>435 mm (17 in.)</td>
<td>1100 mm (3 ft. 11 in.)</td>
<td>35 kg (77 lb.)</td>
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<tr>
<td>Handrail 15</td>
<td>1</td>
<td>2150 mm (7 ft. 1 in.)</td>
<td>394 mm (16 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>31 kg (68 lb.)</td>
</tr>
<tr>
<td>Handrail 16</td>
<td>1</td>
<td>1890 mm (6 ft. 2 in.)</td>
<td>280 mm (11 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>25 kg (55 lb.)</td>
</tr>
<tr>
<td>Handrail 17</td>
<td>1</td>
<td>2410 mm (7 ft. 11 in.)</td>
<td>282 mm (11 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>40 kg (88 lb.)</td>
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<tr>
<td>Handrail 18</td>
<td>1</td>
<td>2510 mm (8 ft. 3 in.)</td>
<td>280 mm (11 in.)</td>
<td>1190 mm (3 ft. 11 in.)</td>
<td>36 kg (79 lb.)</td>
</tr>
<tr>
<td>Handrail 19</td>
<td>1</td>
<td>2060 mm (6 ft. 9 in.)</td>
<td>391 mm (15 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>30 kg (66 lb.)</td>
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<tr>
<td>Handrail 20</td>
<td>1</td>
<td>1990 mm (6 ft. 6 in.)</td>
<td>70 mm (3 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>28 kg (62 lb.)</td>
</tr>
<tr>
<td>Handrail 21</td>
<td>1</td>
<td>1300 mm (4 ft. 3 in.)</td>
<td>267 mm (11 in.)</td>
<td>1140 mm (3 ft. 9 in.)</td>
<td>32 kg (71 lb.)</td>
</tr>
<tr>
<td>Handrail 22</td>
<td>1</td>
<td>1060 mm (3 ft. 7 in.)</td>
<td>189 mm (7 in.)</td>
<td>982 mm (3 ft. 3 in.)</td>
<td>17 kg (37 lb.)</td>
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<tr>
<td>Handrail 23</td>
<td>1</td>
<td>1220 mm (4 ft.)</td>
<td>223 mm (9 in.)</td>
<td>1010 mm (3 ft. 4 in.)</td>
<td>18 kg (40 lb.)</td>
</tr>
<tr>
<td>Handrail 24</td>
<td>1</td>
<td>1290 mm (4 ft. 3 in.)</td>
<td>70 mm (3 in.)</td>
<td>1000 mm (3 ft. 4 in.)</td>
<td>18 kg (40 lb.)</td>
</tr>
<tr>
<td>Handrail 25</td>
<td>1</td>
<td>1730 mm (5 ft. 8 in.)</td>
<td>267 mm (11 in.)</td>
<td>1140 mm (3 ft. 9 in.)</td>
<td>31 kg (68 lb.)</td>
</tr>
<tr>
<td>Handrail 26</td>
<td>1</td>
<td>1590 mm (5 ft. 3 in.)</td>
<td>131 mm (5 in.)</td>
<td>1120 mm (3 ft. 8 in.)</td>
<td>21 kg (46 lb.)</td>
</tr>
<tr>
<td>Handrail 27</td>
<td>1</td>
<td>710 mm (28 in.)</td>
<td>50 mm (2 in.)</td>
<td>409 mm (16 in.)</td>
<td>6 kg (13 lb.)</td>
</tr>
<tr>
<td>Cover 1</td>
<td>2</td>
<td>611 mm (24 in.)</td>
<td>30 mm (1 in.)</td>
<td>1370 mm (4 ft. 6 in.)</td>
<td>18 kg (40 lb.)</td>
</tr>
<tr>
<td>Cover 2</td>
<td>2</td>
<td>510 mm (20 in.)</td>
<td>30 mm (1 in.)</td>
<td>905 mm (3 ft.)</td>
<td>11 kg (24 lb.)</td>
</tr>
<tr>
<td>Cover 3</td>
<td>1</td>
<td>230 mm (9 in.)</td>
<td>30 mm (1 in.)</td>
<td>940 mm (3 ft. 1 in.)</td>
<td>5 kg (11 lb.)</td>
</tr>
<tr>
<td>Cover 4</td>
<td>1</td>
<td>230 mm (9 in.)</td>
<td>30 mm (1 in.)</td>
<td>870 mm (34 in.)</td>
<td>5 kg (11 lb.)</td>
</tr>
<tr>
<td>Cover 5</td>
<td>1</td>
<td>1930 mm (6 ft. 6 in.)</td>
<td>462 mm (18 in.)</td>
<td>856 mm (34 in.)</td>
<td>41 kg (90 lb.)</td>
</tr>
<tr>
<td>Cover 6</td>
<td>1</td>
<td>1660 mm (5 ft. 5 in.)</td>
<td>200 mm (8 in.)</td>
<td>240 mm (9 in.)</td>
<td>22 kg (49 lb.)</td>
</tr>
</tbody>
</table>
MINING EXCAVATOR EX5600-6

TRANSPORTATION

Backhoe Attachments EX5600-6

**BUCKET ASSEMBLY**
- Capacity (SAE heaped): 34.0 m³ (44.5 cu. yd.)
- Weight: 33,400 kg (73,634 lb.)
- Width: 4,640 mm (15 ft. 3 in.)

**ARM ASSEMBLY**
- Weight: 37,300 kg (82,232 lb.)
- Width: 2,360 mm (7 ft. 9 in.)

**BOOM ASSEMBLY**
- Weight: 40,400 kg (89,067 lb.)
- Width: 2,880 mm (9 ft. 5 in.)

**CLAMP ASSEMBLY**
- Weight: 49 kg (108 lb.)
- Width: 100 mm (4 in.)

**HANDRAILS**
- Weight: 19.4 kg (42.8 lb.) X 2
- Width: 144 mm (6 in.)

**BOOM CYLINDERS**
- Weight: 6,880 kg (15,168 lb.) X 2
- Width: 640 mm (25 in.)

**ARM CYLINDERS**
- Weight: 4,690 kg (10,340 lb.) X 2
- Width: 865 mm (34 in.)

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.
EX5600-6

LIFTING CAPACITIES

EX5600-6 BE

Load Point Height

8.0 m (26 ft. 3 in.)
10.0 m (32 ft. 10 in.)
12.0 m (39 ft. 4 in.)
14.0 m (45 ft. 11 in.)
16.0 m (52 ft. 6 in.)

At Maximum Reach

Horizontal Distance from Centerline of Rotation

Over Front

Over Side

Over Front

Over Side

Over Front

Over Side

Over Front

Over Side

Over Front

Over Side

Over Front

Over Side

Over Front

Over Side

At Maximum Reach

Load Point Height

8.0 m (26 ft. 3 in.)
10.0 m (32 ft. 10 in.)
12.0 m (39 ft. 4 in.)
14.0 m (45 ft. 11 in.)
16.0 m (52 ft. 6 in.)

Lifting Capacity

Unit: 1000 kg (2204.6 lb.)

EX5600-6 with 10.1-m (33 ft. 2 in.) BE boom, 5-m (16 ft. 5 in.) BE arm, 34-m3 (44.5 cu. yd.) bucket (SAE) and 1400-mm (55 in.) shoes

Indicates hydraulically limited capacity; numbers without * indicate stability-limited capacities, in kg. The load point is a hook (not standard equipment) loaded on the back of the bucket.

Lifting capacity of the EX Series does not exceed 70% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity. Ratings are based on SAE J1097.
STANDARD / OPTIONAL EQUIPMENT
For the EX5600-6 equipped with a diesel engine.

Key: • Standard ▲ Optional or special kit

5600 Engine
• 5600 Cab (continued)
  • Wrist-control-type electric lever with height-adjusting function
  • Electric / hydraulic operation travel pedals
  • Electric / hydraulic operation bucket open/close pedals - shovel
  • LED type room lamps
  • Footrest
  • Air horn with electric compressor
  • Auto-tuning AM-FM radio with digital clock
  • Seat belt
  • Hot and cool box
  • Storage spaces
  • Floor mat
  • Air conditioner with defroster
  • Rearview mirror
  • Evacuation hammer
  • Emergency escape device
  • Trainer's seat
  • Pilot control shut-off lever

Monitor Systems
• 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
  • Hydraulic oil level
  • Coolant overheat

Pilot indicators (green)
• Pre-lubrication system
• Auto-idle
• Travel mode

Warning indicators (red)
• Alternator
• Engine stop
• Engine over run
• Coolant level
• Engine oil pressure
• Pump transmission oil level indicator

Warning indicators (yellow)
• Exhaust temperature
• Fuel temperature
• Fast-filling
• Engine warning
• Hydraulic oil overheat

5600 Monitor Systems (continued)
• Stairway position
• Electrical equipment box
• Pump contamination
• Air cleaner restriction
• Alarm buzzers
  • Overheat
  • Engine coolant pressure
  • Fuel temperature
  • Engine oil pressure
  • Engine oil temperature
  • Air intake manifold temperature
  • Crankcase pressure
  • Pump transmission oil level
  • Hydraulic oil level
  • Stop valve close
  • Fast-filling system panel position
  • Stairway position
  • Electric lever fault

Data Logging System
• Data-Logging Unit (DLU) continuously records the performance of the engine and the hydraulic system; data can be downloaded by PC
• Satellite data-transmitting system
• WIU (Wireless Interface Unit)

Lights
• 12 high-brightness (HID) working lights
• 3 entrance lights
• 10 maintenance lights

Miscellaneous
• 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
• Lincoln auto-lubrication system for front-attachment pins, swing bearing, and center joint
• Fast-fill fixed panel with Wiggins coupler for fuel, engine oil, engine coolant, grease, pump transmission oil, and swing device oil
• Camera monitor system
• 4 cameras and 2 color monitors

Optional Equipment
• Cold-weather package*
• Travel motor guard
• Travel device guard
• 3rd Party Fleet Management Interface Connection Kit
• High elevation application*

Miscellaneous
• Engineered on request.
**The availability of the system depends on licensing regulations in each country.

See your Hitachi dealer for further information.