HYDRAULIC EXCAVATOR

- **Engine Rated Power**: 397 kW (532 HP)
- **Operating Weight**:
  - SAE, PCSA Heaped: ZX850-3 / ZX850LC-3 / ZX870H-3 / ZX870LCH-3: 2.9 - 4.5 m³
  - CECE Heaped: ZX850-3 / ZX850LC-3 / ZX870H-3 / ZX870LCH-3: 2.6 - 3.9 m³
- **Backhoe Bucket**:
  - SAE, PCSA Heaped: ZX850-3 / ZX850LC-3: 3.6 - 4.4 m³
- **Loading Shovel Bucket**: SAE, PCSA Heaped: ZX850-3 / ZX870H-3: 3.6 - 4.4 m³
The New Generation Hydraulic Excavators

The HITACHI ZAXIS-3 series new-generation hydraulic excavators are packed with a host of technological features - clean engine, HITACHI advanced hydraulic technologies, with strong undercarriage and front attachment, plus well matching of power and speed.

The ZAXIS-3 series can get the job done with proven productivity, durability, and reliability, especially in heavy-duty excavation and quarry operations.

- Clean engine complies with the emission regulations US EPA Tier 3 and EU Stage III A
- The advanced low noise design complies with the coming EU noise regulation 2000 / 14 / EC, STAGE II

Productivity
- Increased digging force
- Enhanced boom recirculation system
- Boom mode selector
- Larger-diameter front piping
- Combined operation of boom and arm
- New bucket regenerative system
- High power yet low fuel consumption
- Common rail type fuel injection system
- Cooled EGR system

Durability and reliability
- Increased loading capacity of swing circle
- Enlarged upper and lower rollers, idlers and sprockets
- Strengthened track links
- Pressed master pins
- Strengthened idler pedestal
- Strengthened idler bracket
- Full track guard provided standard (ZAXIS 870H / 870LCH)
- Enlarged pins
- Strengthened arm and boom
- Strengthened general-purpose bucket
- Strengthened H-bucket for heavy-duty

Operator comfort
- Good visibility from inside cab
- Short stroke levers
- Wide foot space
- Comfort designed seat
- Improved controllability and operator comfort

Multi function monitor
- Maintenance support
- Attachment support system
- Multi-language selection
- Rear view camera (optional)
- Theft deterrent system
- Fuel consumption monitoring

Maintenance
- Parallel arrangement of the cooling pack
- Conveniently located inspection points
- Extended maintenance intervals

Safety measures
- CRES II cab (ZAXIS 850 / 850LC is standard equipped)
- H/R cab (ZAXIS 870H / 870LCH is standard equipped)
- Cab right guard
- Evacuation hammer
- Pilot control shut-off lever

Environment measures
- A cleaner machine
- A quieter machine
- A recyclable machine

Parts & service

Specifications

Notes: Some of the pictures in this catalog show an unmanned machine with attachments in an operating position. These were taken for demonstration purposes only and the actions shown are not recommended under normal operating conditions.
World-Class Productivity

To yield high production yet maintain low fuel consumption, such was the objective of the development of a new engine and hydraulic system for the ZAXIS 850 / 850LC / 870H / 870LCH.

Production: Approx. 7 % Increase

Advanced Hydraulic Technologies

Increased Digging Force

14 % more bucket digging force and 8 % more arm digging force. (At power boost mode) (vs. Conventional Model)

Boom Mode Selector

The amount the body can be lifted or pulled by the front of machine can be ON or OFF selected. This helps to provide for more comfortable operation and contributes to longer component service life.

Combined Operation of Boom and Arm

In combined operation of swing + boom lower + arm roll-out, or in leveling boom lower + arm roll-out, arm roll-out speed can be increased greatly. Here’s why. A variable throttle, provided in the arm circuit, adjusts the flow when needed to reduce hydraulic loss in combined operation with arm roll-out.

Enhanced Boom Recirculation System

In combined operation of boom lower and arm, arm speed can be increased by approximately 15 % over the conventional. Pressurized oil from boom cylinder bottom side is delivered to boom cylinder rod side to lower the boom, assisted by boom weight. Conventionally, pressurized oil from pump is delivered to boom cylinder rod side to lower the boom. The new system also allows an efficient combined operation of swing and lowering the boom.

Larger-Diameter Front Piping

Arm piping is increased in diameter to reduce hydraulic loss (theoretically 8 %) for speedy front operation.

Development Concept of New Engine

High Power Yet Low Fuel Consumption

10 % increase in output (vs. Conventional Model)

- 307 kW (412 HP) / 1 800 min⁻¹

The new clean engine, complying with the emission regulations Tier 3 in US (EPA) and EU Stage III, can reduce fuel costs by electronic control.

Common Rail Type Fuel Injection System

Electronic control common rail type fuel injection system drives an integrated fuel pump at an ultrahigh pressure to distribute fuel to each injector per cylinder through a common rail. This enables optimum combustion to generate big horsepower, and reduce PM* and fuel consumption.

Cooled EGR** System

Exhaust gas is partially mixed with intake air to lower combustion temperature for reducing NOx and fuel consumption. What’s more, the EGR cooler cools down exhaust gas to increase air concentration for complete combustion, reducing PM**.

*Particulate Matter
**Exhaust Gas Recirculation
**A Solid Base for a Long Life**

Strengthened undercarriage for higher durability even in heavy-duty applications.

### Strengthened Undercarriage

**Increased Loading Capacity of Swing Bearing**

The number of ball bearings in the swing circle, which sustains the upper structure, is increased to boost the loading capacity of the swing circle by approximately 12%, allowing stable swing even in tough operation. (vs. Conventional Model)

**Pressed Master Pins**

The master pin of each track link is pressed, instead of master pin using a pin retention to avoid disengagement.

**Strengthened Idler Pedestal**

The bearing length of the idler pedestal is extended by approximately 54% to increase durability and service life. (vs. Conventional Model)

**Full Track Guard Provided Standard (ZAXIS 870H / 870LCH)**

On the H-specification machines, full track guards are provided standard. Full track guards protect track links and lower rollers from damage and deformation. Moreover, they also keep out stones, preventing the overload to the undercarriage to reduce wear and damage.

### Strengthened Front Components

**Enlarged Pins**

Pins, used throughout the front attachment, are increased in diameter for strengthening.

**Strengthened Arm and Boom**

The arm and boom are strengthened by thickening and using stronger material.

**Strengthened General-Purpose Bucket**

Bucket teeth are reshaped as Super-V teeth for smooth penetration and higher production. Bushings are utilized at both ends of a bucket pin to eliminate clearances, preventing jerky operation.

**Strengthened H-Bucket for Heavy-Duty**

The heavy-duty bucket is reshaped, and bucket parts are strengthened to increase durability.

**Strengthened Upper Roller Bracket**

The upper roller bracket wall thickness is increased for higher strength.

**Strengthened Idler Bracket**

The idler bracket is thickened for rigidity to prevent deformation and increase durability.

**Strengthened Idler Pedestal**

The bearing length of the idler pedestal is extended by approximately 54% to increase durability and service life. (vs. Conventional Model)

**Strengthened Upper Roller Bracket**

The upper roller bracket wall thickness is increased for higher strength.

**Enlarged Upper and Lower Rollers, Idlers and Sprockets**

Upper and lower rollers are widened to increase contact areas, and idlers and sprockets are increased in diameter for more durability and mobility.

**Strengthened Track Links**

The boss diameter of each track link is increased by approximately 10%. The thickness of each track link is also increased by approximately 65%. Thickened track links extend service life. (vs. Conventional Model)

**Strengthened Idler Bracket**

The idler bracket is thickened for rigidity to prevent deformation and increase durability.

**Strengthened Idler Pedestal**

The bearing length of the idler pedestal is extended by approximately 54% to increase durability and service life. (vs. Conventional Model)
A New Standard in Operator Comfort

The operator’s seat of the ZAXIS-3 series gives the operator an excellent view of the jobsite. On the widescreen colour LCD monitor the operator can see what is behind the machine. Ample legroom, short stroke levers and a large seat ensure optimum working conditions for the operator during long hours.

The ZAXIS-3 series cab has been redesigned to meet demands of customers. From the operator’s seat the operator has an excellent view of the jobsite. On the widescreen color LCD monitor the operator can see machine conditions and with the rear view camera (optional), what is behind the machine. Ample legroom, short stroke levers and a suspension seat ensure optimum working conditions. The seat features horizontal, vertical adjustments and has a backrest contoured for comfort, with a HITACHI logo.

Wide adjustable armrests and a retractable seat belt are included. Short stroke levers allow for continuous operation with less fatigue. The cab is pressurized to keep out dust. Noise and vibrations are kept to a minimum due to the elastic mounts, filled with silicone oil, the cab rests on.

Visibility is improved especially for the right downward view. Sliding windows on the front (ZAXIS 850 / 850LC) and side enable direct communication between operator and other workers. Foot space has increased and travel pedals have been redesigned for easier operation. A flat floor allows for easy cleaning. Ergonomic controls and switches, fully automatic air conditioner and a radio complete the package.
Embedded Information Technology

The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, and connect to the rear view camera (optional). A theft deterrent system and multi-language selection is also available.

Multi function monitor

The color LCD monitor, located in the cab, indicates coolant temperature, fuel level, and maintenance data. It also allows one-touch adjustment of the attachment. The display can also be adjusted to day or night shift.

Attachment support system (work mode selector)

The work mode can be selected from the multi-function monitor inside the cab. Pump flow in the selected work mode can be monitored.

Maintenance support

Replacement timing of hydraulic oil and fuel filters is alerted to the operator through the LCD monitor according to the schedule preset by the user each time when turning the key switch. The scheduled maintenance can prevent the failure of the machine.

Multi-language selection

The menu allows selection from 12 languages.

Fuel consumption monitoring

Fuel consumption per operating hour is computed, and the result is displayed on the LCD monitor. This information suggests refuelling timing, and guides energy-saving operation and efficient job management.

The electronic immobiliser requires the entry of an encryption code to the multifunctional monitor each time when starting the engine to prevent theft and vandalism.

Rear view camera (optional)

The wide screen color LCD, teamed up with the rear view camera on the counterweight, gives the operator unobstructed rearward viewing. The rear view camera automatically works when traveling, and can also be manually turned on with a select switch on the monitor.

The electronic moulding gives the operator unobstructed rearward viewing. The rear view camera automatically works when traveling, and can also be manually turned on with a select switch on the monitor.
Simplified Maintenance

Focusing on simplified maintenance, including easy inspection, service and cleaning.

Parallel Arrangement of the Cooling Pack

The radiator and oil cooler are separately laid out in a parallel for easy demounting, instead of the conventional in-line arrangement. This new parallel arrangement significantly helps facilitate cleaning around the radiator and oil cooler, and improving oil cooling capability. The air-conditioner condenser and fuel cooler can be opened to easily clean them and the radiator located behind.

Conveniently Located Inspection Points

In addition to a pre-filter, dual main fuel filters are provided standard to reduce clogging of the fuel line to the engine. The engine oil pan is fitted with a drain coupler. When draining, an associated drain hose is connected to the drain coupler. The drain coupler is reliable, avoiding oil leakage and vandalism.

The sidewalk is widened from 340 mm (Conventional model) to 510 mm for smooth walking from cab to rear. The sidewalk is the field-proven split type that permits the detaching of its rear when traveling or operating on rough terrain.

Extended Maintenance Intervals

Automatic Lubrication (Optional) / Repositioned Bucket Lubricating Points

The front attachment is automatically lubricated (When optional auto-grease lubricator is equipped), except for bucket lubricating points at the top of arm that are repositioned for side lubrication.

Enlarged Fuel Tank

The fuel tank is enlarged, increasing the capacity from 900 liters (Conventional model) to 1,200 liters. Refueling intervals (when filled fully) extend from 17 to 18 hours.

Extended Hydraulic Oil Filter Change Intervals

Hydraulic oil filter change intervals are extended from 500 hours (Conventional model) to 1,000 hours to help reduce running costs.
Safety Features
An array of safety devices for enhanced safety.

Protecting the Operator From Tipping Accident

CREST II Cab
(ZAXIS 850 / 850LC are standard equipped)

The CREST II cab is designed to help with "just in case" protection for the operator. Safety in case of tipping is improved. The cab top can withstand four-fold loading.

H/R Cab
(ZAXIS 870H / 870LCH are standard equipped)

The H/R cab utilizes the reinforced front window and FOPS* at the roof for protection against falling objects.

The front glass window, straight-laminated type, is fixed to shut out dirt and debris. The cab provided with a full guard satisfies the DPO** (Level III) cab requirements stipulated by ISO.

*Falling Object Protective Structure
**Operator Protective Guards

Additional Features
Cab Right Guard
Evacuation Hammer
Pilot Control Shut-Off Lever

Other features include a retractable seatbelt, evacuation hammer and emergency engine shut-off switch. A shut-off lever for pilot control helps to prevent unintentional movements.

Environmental Features
Boarding a clean engine complying with the rigorous emission regulations.

A Cleaner Machine

The ZAXIS-3 series is equipped with a clean but powerful engine to comply with Tier 3, and Stage III A. An engine emission regulations effective in the U.S. EPA and European Union from 2006. Exhaust gas is partly re-combusted to reduce particulate matter (PM) output and lower nitrogen oxide (NOx) levels.

A Quieter Machine

Engine noise is reduced by approximately 2 dB with the robust engine. The engine cooling fan is a large 120 mm diameter variable-speed electro-hydraulic fan. This fan automatically starts when temperature comes into the high temperature range, ensuring low noise operation. A proven large muffler is provided to reduce sound and exhaust emissions greatly.

A Recyclable Machine

Over 97 % of the ZAXIS-3 series can be recycled. All resin parts are marked to facilitate recycling. The machine is completely lead-free. The radiator and oil cooler are made from aluminum and all wires are lead-less. In addition, biodegradable hydraulic oil is available for jobsites where special environmental care is required.
Over the years, we have gained experience in one of the most competitive service markets in the world - Japan. Using our know-how in dealing directly with customers, we have created a worldwide support system that is highly capable.

HITACHI only offers genuine high quality parts. We guarantee that these parts have high performance and long life. We manage around 1,000,000 types of parts all around the world. They are designed and built to be the best match for your HITACHI equipment. HITACHI has a global parts distribution network that makes sure you get what you need as quickly as possible. We have more than 150 dealers worldwide who provide the closest support for your needs. In most cases, your dealer will have the replacement part that you require. If a dealer does not have a certain part, he can order it from four fully stocked parts depots located across the world. These distribution centers are all connected by a on-line system that gives them access to shared information on stocks, such as the number and type of available parts. The depots, which in turn are stocked by a parts center in Japan, minimize delivery time and enable you to get your parts as efficiently and quickly as possible.

Our goal is to “keep customer equipment at a maximum performance level”. To fulfill this goal, we have set more than 150 dealers all over the world. They have highly trained technicians, and provide a number of support programs. HITACHI provides a unique extended warranty program called HITACHI Extended Life Program, or HELP.

To minimize downtime during troubleshooting, we developed a PDA based diagnostic system called “Dr.ZX”. To keep our customers’ equipment in top running shape, good service is indispensable. We believe personnel training is the key to providing the best service.

If you would like more information regarding parts and/or service, please ask your nearest HITACHI dealer. Not all programs and/or services are available in every market or region.
SPECIFICATIONS
ZX870H-3 / ZX870LCH-3

ENGINE
Model ........................................... Isuzu AH-6WG1XYSB-03
Type .............................................. 4-cylinder water-cooled, direct injection
Aspiration ........................................... Turbocharged
No. of cylinders ................................. 6
Rated power
ISO 9249, net, .................. H.P. mode : 397 kW (532 HP) at 1 800 min⁻¹ (rpm)
(Without Fan) .............................. 397 kW (532 HP) at 1 800 min⁻¹ (rpm)
ESC 80/128, net, .................. H.P. mode : 397 kW (532 HP) at 1 800 min⁻¹ (rpm)
(Without Fan) .............................. 397 kW (532 HP) at 1 800 min⁻¹ (rpm)
SAE J1349, net, .................. H.P. mode : 397 kW (532 HP) at 1 800 min⁻¹ (rpm)
(Without Fan) .............................. 397 kW (532 HP) at 1 800 min⁻¹ (rpm)
Maximum torque ........................... 2 550 Nm (229 kgf-m) at 1 600 min⁻¹ (rpm)
Piston displacement ........................... 15.68 l
Bore and stroke ............................... 147 mm x 154 mm
Batteries ........................................... 2 x 12 V / 170 Ah

HYDRAULIC SYSTEM
• Work mode selector
  General purpose mode / Attachment mode
• Engine speed sensing system
  Main pumps ................................... 2 variable displacement axial piston pumps
  Pilot pump ..................................... 1 gear pump
  Maximum oil flow ........................... 30 l/min

Hydraulic Motors
Travel ........................................... 2 axial piston motors with parking brake
Swing ............................................. 2 axial piston motors

Relief Valve Settings
Implant circuit .................................. 31.9 MPa (325 kgf/cm²)
Swing circuit .................................... 28.4 MPa (300 kgf/cm²)
Travel circuit .................................... 3.9 MPa (40 kgf/cm²)
Power boost ................................. 34.3 MPa (350 kgf/cm²)

Hydraulic Cylinders
High-strength piston rod and tubes. Cylinder cushion mechanisms incorporated in boom and arm cylinders to absorb shock at stroke ends.

Dimensions

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Box</th>
<th>Rod diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>2</td>
<td>215 mm</td>
</tr>
<tr>
<td>Arm</td>
<td>1</td>
<td>320 mm</td>
</tr>
<tr>
<td>Bucket</td>
<td>1</td>
<td>350 mm</td>
</tr>
</tbody>
</table>

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

CONTROLS
Pilot controls. Hitachi’s original shock less valve and quick warm-up system built in the pilot circuit.
Implant levers ................................ 2
Travel levers with pedals .................... 2

UNDERCARRIAGE
Tracks

Numbers of Rollers and Shoes on Each Side
Upper rollers ................................. 3
Lower rollers ................................. 8
Track shoes ................................... 47 : ZX870H-3
  51 : ZX870LCH-3
Full length track guard ..................... 1

Travel Device
Each track driven by axial piston motor through reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

TRADEMARKS
Revolving Frame
Welded stubby box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Device
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shoe-type ball bearing with induction hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.
Swing speed ............................... 7.3 min⁻¹ (rpm)

Operator’s Cab
Independent spacious cab, 1 005 mm wide by 1 785 mm high, conforming to ISO® Standards. (OPG top guard fitted Level II, ISO 10261 compliant cab) Reinforced glass windows on 4 sides for visibility. Reclining seat with armrests; adjustable with or without control levers.
* International Standardization Organization

WEIGHTS AND GROUND PRESSURE
ZX870H-3 :
Equipped with 8.4 m H-boom, 3.7 m H-arm and 3.5 m rock bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>650 mm</td>
<td>82 100 kg</td>
<td>131 140 kg (1.13 kgf/cm²)</td>
</tr>
</tbody>
</table>

ZX870LCH-3 :
Equipped with 8.4 m H-boom, 3.7 m H-arm and 3.5 m rock bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>650 mm</td>
<td>82 400 kg</td>
<td>131 140 kg (1.13 kgf/cm²)</td>
</tr>
</tbody>
</table>

ZX870H-3 :
Equipped with 7.1 m BE-boom, 2.95 m BE-arm and 4.3 m rock bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>650 mm</td>
<td>82 400 kg</td>
<td>131 140 kg (1.13 kgf/cm²)</td>
</tr>
</tbody>
</table>

ZX870LCH-3 :
Equipped with 7.1 m BE-boom, 3.7 m H-arm and 3.7 m rock bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>650 mm</td>
<td>83 500 kg</td>
<td>120 140 kg (1.13 kgf/cm²)</td>
</tr>
</tbody>
</table>

SERVICE REFFIL CAPACITIES
Fuel tank ........................................ 1 120.0 L
Engine coolant .................................. 116.0 L
Engine oil ........................................ 57.0 L
Pump drive ........................................ 6.2 L
Swing device (each side) ..................... 15.0 L
Travel device (each side) ..................... 19.0 L
Hydraulic system ................................ 790.0 L
Hydraulic oil tank ................................ 500.0 L

BACKHOE ATTACHMENTS
Boom and arms are of all-welded, box-section design. A number of booms and arms are available. Bucket is of all-welded, high strength steel structure. The ZAXIS 870H / 870LCH are a heavy duty type and can be equipped with a reinforced H-boom or BE-boom and H-arm or BE-arm.

Backhoe Buckets
ZX870H-3 / ZX870LCH-3

<table>
<thead>
<tr>
<th>SAE, PCSA heaped</th>
<th>QE/GE heaped</th>
<th>Without side cutters</th>
<th>With side cutters</th>
<th>No. of teeth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.7 m BE-boom</td>
<td>9.7 m BE-boom</td>
<td>3.50 m²</td>
<td>1.10 m²</td>
<td>1.850 mm</td>
<td>1.850 mm</td>
</tr>
<tr>
<td>3.50 m²</td>
<td>1.10 m²</td>
<td>1.850 mm</td>
<td>1.850 mm</td>
<td>6</td>
<td>3.710 kg</td>
</tr>
<tr>
<td>4.30 m²</td>
<td>1.30 m²</td>
<td>1.950 mm</td>
<td>1.975 mm</td>
<td>5</td>
<td>3.950 kg</td>
</tr>
<tr>
<td>5.10 m²</td>
<td>1.70 m²</td>
<td>2.090 mm</td>
<td>2.110 mm</td>
<td>5</td>
<td>4.270 kg</td>
</tr>
<tr>
<td>6.90 m²</td>
<td>2.20 m²</td>
<td>2.450 mm</td>
<td>2.500 mm</td>
<td>5</td>
<td>4.920 kg</td>
</tr>
<tr>
<td>8.40 m²</td>
<td>2.20 m²</td>
<td>2.500 mm</td>
<td>2.500 mm</td>
<td>5</td>
<td>4.630 kg</td>
</tr>
<tr>
<td>1.00 m²</td>
<td>1.00 m²</td>
<td>1.500 mm</td>
<td>1.500 mm</td>
<td>3</td>
<td>4.630 kg</td>
</tr>
<tr>
<td>1.50 m²</td>
<td>1.00 m²</td>
<td>1.500 mm</td>
<td>1.500 mm</td>
<td>3</td>
<td>4.630 kg</td>
</tr>
</tbody>
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Recommendation
ZX870H-3 / ZX870LCH-3

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>7.1 m BE-boom</td>
</tr>
<tr>
<td>3.7 m H-arm</td>
</tr>
<tr>
<td>3.7 m H-arm</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Capacity</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 m BE-boom</td>
<td>3.7 m H-arm</td>
</tr>
<tr>
<td>3.7 m H-arm</td>
<td>3.7 m H-arm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.96 m BE-boom</td>
</tr>
<tr>
<td>3.7 m H-arm</td>
</tr>
</tbody>
</table>

Backhoe Buckets
ZX870H-3 / ZX870LCH-3

<table>
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<tr>
<th>Shoe type</th>
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Backhoe Buckets
ZX870H-3 / ZX870LCH-3

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</tr>
</tbody>
</table>

* Rock bucket
** Ripper bucket
*1 Heavy-duty service
*2 Not applicable
*3 Can’t installed

• Hydraulic Cylinders
• Hydraulic Filters
• Numbers of Rollers and Shoes on Each Side
• Travel Device
**SPECIFICATIONS**

**ZX870H-3 / ZX870LCH-3**

### DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>ZX870H-3</th>
<th>ZX870LCH-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Distance between furnaces (mm)</td>
<td>4,550</td>
<td>5,110</td>
</tr>
<tr>
<td>B. Undercarriage length (mm)</td>
<td>5,940</td>
<td>6,360</td>
</tr>
<tr>
<td>C. Counterweight clearance</td>
<td>1,660</td>
<td></td>
</tr>
<tr>
<td>D. Rear-end swing radius (m)</td>
<td>4,600</td>
<td></td>
</tr>
<tr>
<td>D'. Rear-end length (m)</td>
<td>4,520</td>
<td></td>
</tr>
<tr>
<td>E. Overall width of understructure (m)</td>
<td>4,120</td>
<td></td>
</tr>
<tr>
<td>F. Overall height of understructure (m)</td>
<td>3,780</td>
<td></td>
</tr>
<tr>
<td>H. Min. ground clearance (m)</td>
<td>0,850</td>
<td></td>
</tr>
<tr>
<td>I. Track gauge (mm)</td>
<td>3,450</td>
<td></td>
</tr>
<tr>
<td>J. Track width (mm)</td>
<td>0,650</td>
<td></td>
</tr>
<tr>
<td>K. Undercarriage width (mm)</td>
<td>4,100</td>
<td></td>
</tr>
<tr>
<td>L. Overall length (m)</td>
<td>4,430</td>
<td></td>
</tr>
<tr>
<td>M. Overall height of boom (m)</td>
<td>4,570</td>
<td></td>
</tr>
<tr>
<td>N. Track height (m)</td>
<td>1,500</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:

1. Excluding track shoe lug & Double groover shoe
2. Equipped with 6.4 m H-boom and 3.7 m H-arm

### WORKING RANGES

<table>
<thead>
<tr>
<th>Arm length</th>
<th>ZX870H-3 / ZX870LCH-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Max. digging reach (on ground) (m)</td>
<td>12,020</td>
</tr>
<tr>
<td>B. Max. digging depth (m)</td>
<td>7,140</td>
</tr>
<tr>
<td>B'. Max. digging depth (3' level) (m)</td>
<td>7,000</td>
</tr>
<tr>
<td>C. Max. cutting height (m)</td>
<td>12,010</td>
</tr>
<tr>
<td>D. Max. dumping height (m)</td>
<td>8,130</td>
</tr>
<tr>
<td>E. Min. swing radius (m)</td>
<td>5,210</td>
</tr>
<tr>
<td>F. Max. vertical wall (m)</td>
<td>4,100</td>
</tr>
</tbody>
</table>

** ZX870H-3 / ZX870LCH-3: Units:mm

**ZX870LCH-3: Rating over side or 360 degrees Rating over front

**LIFTING CAPACITIES**

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load point height</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 m</td>
<td>4 m</td>
</tr>
<tr>
<td>BE Boom 7.1 m BE-arm, 25° incl. Rock Bucket incl. Shoe</td>
<td>630 mm</td>
<td></td>
</tr>
<tr>
<td>9.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0.5 kN</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**ZX870H-3: Units:mm

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load point height</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 m</td>
<td>4 m</td>
</tr>
<tr>
<td>BE Boom 8.0 m BE-arm, 31° incl. Rock Bucket incl. Shoe</td>
<td>630 mm</td>
<td></td>
</tr>
<tr>
<td>9.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6.0 kN</td>
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<tr>
<td>4.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.0 kN</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0.5 kN</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Notes:

1. Ratings are based on SAE J1097.
2. Lifting capacity of the ZX Series does not exceed 75% of tipping load with the machine on 8 m, level ground or 87% full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. Indicated load limited by hydraulic capacity.
EQUIPMENT

ZX870H-3 / ZX870LCH-3

STANDARD EQUIPMENT

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

ENGINE
- H/P mode control
- P mode control
- D mode control
- 50 A alternator
- Dry-type air double filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Isolation-mounted engine
- Auto-idle system

CAB
- H/R cab
- OPG top guard fitted Level II (ISO10262) compliant cab
- All-weather sound suppressed steel cab
- Laminated straight and fixed glass front window
- Left side window can be opened
- 6 fluid-filled elastic mounts
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining suspension seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto-idle selector
- Retractable Seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Floor mat
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

MONITOR SYSTEM
- Display of meters: water temperature, hour, fuel rate, clock
- Other displays: work mode, auto-idle, glow, rear view monitor
- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, etc
- Alarm buzzers: overheat, engine oil pressure

UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- Hydraulic track adjuster
- Tilt track guard
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals
- Full track guard
- 650 mm double grouser shoes

LIGHTS
- 3 working lights
- 2 cab lights

UPPERSTRUCTURE
- 4.5 mm thickness Undercover
- 13 300 kg counterweight
- 4.4 m H-boom and 3.7 m H-arm
- 3.5 m SAE, PCSA heaped rock bucket (with dual type side shrouds)

FRONT ATTACHMENTS
- Flanged pin
- Centralized lubrication system
- Dirt seal on all bucket pins
- 8.4 m H-boom and 3.7 m H-arm
- Damage prevention plate and square bars

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes, plates, handrails and sidewalk
- Travel direction mark on track frame
- Onboard information controller
- Thaft dentation system

OPTIONAL EQUIPMENT

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

- Hose rupture valves
- Electric fuel refilling pump with autostop
- Swing motion alarm device with lamps
- Travel motion alarm device
- Biodegradable oil
- Pre cleaner
- Auto-grease lubricator
- Electric grease gun with hose reel
- Right side walk
- Rain guard for cab
- Attachment basic piping
- Accessories for breaker & crusher
- Accessories for breaker & crusher
- Sun visor
- 12 V power source
- Additional fuse box
- Overload alarm
- Rear view camera

- 7.1 m BE-boom
- 2.05 m BE-arm
### SPECIFICATIONS

#### ENGINE
- **Model**: Isuzu 6WUG5Y3A-03
- **Type**: 4-cylinder water-cooled, direct injection
- **Compression Ratio**: Turbocharged
- **No. of cylinders**: 6
- **Rated power**: ISO 9249, net 
  - (Without Fan) 397 kW (532 HP) at 1 800 min⁻¹
  - (With Fan) 390 kW (521 HP) at 1 800 min⁻¹
  - SAE J1349, net 
  - (Without Fan) 397 kW (532 HP) at 1 800 min⁻¹
  - (With Fan) 390 kW (521 HP) at 1 800 min⁻¹
- **Maximum torque**: 2 250 Nm (229 kgf m) at 1 600 min⁻¹
- **Piston displacement**: 156.8 L
- **Bore and stroke**: 14.7 mm x 154 mm
- **Battery**: 2 x 12 V / 170 Ah

#### HYDRAULIC SYSTEM
- **Work mode selector**: General purpose mode / Attachment mode
- **Engine speed sensing system**: Main pumps 
  - 2 variable displacement axial piston pumps
- **Main pump capacity**: Maximum oil flow... 2 x 528 L/min
- **Pilot pump**: 1 gear pump
- **Maximum oil flow...**: 30 L/min

#### Hydraulic Motors
- **Travel**: 2 axial piston motors with parking brake
- **Swing**: 2 axial piston motors

#### Relief Valve Settings
- **Implant circuit**: 31.9 MPa (325 kgf/cm²)
- **Swing circuit**: 3.9 MPa (40 kgf/cm²)
- **Travel circuit**: 3.9 MPa (40 kgf/cm²)
- **Power boost**: 34.3 MPa (350 kgf/cm²)

#### Hydraulic Cylinders
- **Hydraulic Motors**: High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

#### Dimensions
- **Boom**: 215 mm x 150 mm
- **Arm**: 250 mm x 150 mm
- **Riser**: 250 mm x 140 mm
- **Bucket**: 215 mm x 150 mm

#### Hydraulic Filters
- **High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.**

#### CONTROLS
- **Pilot controls**: Hitachi’s original shock loss valve and quick warm-up system built in the pilot circuit.
- **Implant levers**: 2
- **Travel levers with pedals**: 2

### UPPERSTRUCTURE

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

#### Swing Device
- Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shoe-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring set-hydraulic-released disc type. Swing speed... 7.3 min⁻¹

#### Operator’s Cab
- Independent spacious cab, 1.05 m width by 1.675 m high, conforming to SAE Standards. (OPG top guard fitted Level I, ISO 10522 compliant cab) Reinforced glass windows on 4 sides for visibility. Openable front windows (upper and lower). Reclining seat with armrests; adjustable with or without control levers.

#### UNDERCARRIAGE

#### Tracks

#### Numbers of Rollers and Shoes on Each Side
- **Upper rollers**: 3
- **Lower rollers**: 8
- **Track shoes**: 47
- **Track guard**: 2

#### Travel Device
- **Travel**: Each track driven by axial piston motor through reduction gear for countertraction of the tracks. Sprockets are replaceable. Parking brake is spring set-hydraulic-released disc type. Automatic transmission system: High-Low.
- **Travel speeds**: High : 0 to 4.1 km/h
  - Low : 0 to 3.1 km/h
- **Maximum traction force**: 560 kN (57 100 kgf)
- **Gradability**: 70 % (35 degrees) continuous

### WEIGHTS AND GROUND PRESSURE

#### ZX850-3
- **Equipped with 8.4 m boom, 3.7 m arm and 3.5 m² bucket (SAE, PCSA heaped)**

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double 650 mm</td>
<td>650 mm</td>
<td>50 500 kg</td>
<td>121 kPa (1.23 kgf/cm²)</td>
</tr>
<tr>
<td>750 mm</td>
<td>750 mm</td>
<td>75 100 kg</td>
<td>169 kPa (1.72 kgf/cm²)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double 650 mm</td>
<td>650 mm</td>
<td>51 300 kg</td>
<td>122 kPa (1.24 kgf/cm²)</td>
</tr>
<tr>
<td>750 mm</td>
<td>750 mm</td>
<td>75 900 kg</td>
<td>177 kPa (1.81 kgf/cm²)</td>
</tr>
</tbody>
</table>

#### ZX850LC-3
- **Equipped with 7.1 m BE-boom, 2.95 m BE-arm and 4.5 m² bucket (SAE, CPSCA heaped)**

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double 650 mm</td>
<td>650 mm</td>
<td>62 200 kg</td>
<td>112 kPa (1.14 kgf/cm²)</td>
</tr>
<tr>
<td>750 mm</td>
<td>750 mm</td>
<td>82 900 kg</td>
<td>190 kPa (1.96 kgf/cm²)</td>
</tr>
<tr>
<td>900 mm</td>
<td>900 mm</td>
<td>103 600 kg</td>
<td>255 kPa (2.60 kgf/cm²)</td>
</tr>
</tbody>
</table>

#### ZX850LC-3
- **Equipped with 8.4 m boom, 3.7 m arm and 3.5 m² bucket (SAE, PCSA heaped)**

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double 650 mm</td>
<td>650 mm</td>
<td>53 600 kg</td>
<td>133 kPa (1.35 kgf/cm²)</td>
</tr>
<tr>
<td>750 mm</td>
<td>750 mm</td>
<td>73 700 kg</td>
<td>229 kPa (2.33 kgf/cm²)</td>
</tr>
<tr>
<td>900 mm</td>
<td>900 mm</td>
<td>93 800 kg</td>
<td>323 kPa (3.31 kgf/cm²)</td>
</tr>
</tbody>
</table>

#### Note:
Depending on the operating conditions, 750 mm grouser shoe and 900 mm grouser shoe may not be recommended for rough, hard surface or forestry application.

### BACKHOE ATTACHMENTS
- **Boom and arms**: of all-welded, box-section design. A number of booms and arms are available. Buckets is of all-welded, high strength steel structure.

#### Backhoe Buckets
- **ZX850-3 / ZX850LC-3**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Without side cutters</th>
<th>With side cutters</th>
<th>Number of teeth</th>
<th>Weight</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 m BE-boom</td>
<td>8.4 m boom</td>
</tr>
<tr>
<td>750 mm Double grouser</td>
<td>900 mm Double grouser</td>
</tr>
</tbody>
</table>

#### Note:
- Suitable for materials with density of 1.800 kg/m³ or max.
- For applicable |
- Not applicable

### SERVICE REFILL CAPACITIES
- **Fuel tank**: 1 120 L
- **Engine coolant**: 116.0 L
- **Engine oil**: 57.0 L
- **Pump drive**: 6.2 L
- **Swing device (each side)**: 15.0 L
- **Travel device (each side)**: 19.0 L
- **Hydraulic system**: 790.0 L
- **Hydraulic oil tank**: 500.0 L
**SPECIFICATIONS**

**ZX850-3 / ZX850LC-3**

### DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>ZX850-3</th>
<th>ZX850LC-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Distance between furnaces</td>
<td>4.560</td>
<td>5.110</td>
</tr>
<tr>
<td>B. Undercarriage length</td>
<td>5.940</td>
<td>6.360</td>
</tr>
<tr>
<td>C. Counterweight clearance</td>
<td>1.680</td>
<td></td>
</tr>
<tr>
<td>D. Rear-end swing radius</td>
<td>4.600</td>
<td></td>
</tr>
<tr>
<td>D'. Rear-end length</td>
<td>4.520</td>
<td></td>
</tr>
<tr>
<td>E. Overall width of upperstructure</td>
<td>3.630</td>
<td></td>
</tr>
<tr>
<td>F. Overall height of cab</td>
<td>3.450</td>
<td></td>
</tr>
<tr>
<td>G. Min. ground clearance</td>
<td>4.650</td>
<td></td>
</tr>
<tr>
<td>H. Track width</td>
<td>1.010</td>
<td></td>
</tr>
<tr>
<td>I. Track gauge</td>
<td>4.430</td>
<td></td>
</tr>
<tr>
<td>J. Track gauge width</td>
<td>1.010</td>
<td></td>
</tr>
<tr>
<td>K. Overall width</td>
<td>4.430</td>
<td></td>
</tr>
<tr>
<td>L. Overall length</td>
<td>14.770</td>
<td></td>
</tr>
<tr>
<td>M. Overall height of boom</td>
<td>4.570</td>
<td></td>
</tr>
<tr>
<td>N. Track height</td>
<td>1.500</td>
<td></td>
</tr>
</tbody>
</table>

### WORKING RANGES

#### BX850-3 / ZX850LC-3

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load point height</th>
<th>3 m</th>
<th>4 m</th>
<th>6 m</th>
<th>8 m</th>
<th>10 m</th>
<th>12 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load radius</td>
<td>At max. reach</td>
<td>meter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BB beam 7.1 m BE-beam</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td></td>
</tr>
<tr>
<td>Bucket digging force* ISO</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td></td>
</tr>
</tbody>
</table>

### LIFTING CAPACITIES

**Notes:**
1. Ratings are based on SAE J1097.
2. Lifting capacity of the ZAXIS Series does not exceed 75 % of tipping load with the machine on 6 ft (1.8 m) level ground or 67 % full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. "Indicates load limited by hydraulic capacity.

#### ZX850LC-3

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load point height</th>
<th>3 m</th>
<th>4 m</th>
<th>6 m</th>
<th>8 m</th>
<th>10 m</th>
<th>12 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load radius</td>
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<td>meter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BB beam 7.1 m BE-beam</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td></td>
</tr>
<tr>
<td>Bucket digging force* ISO</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td></td>
</tr>
</tbody>
</table>

Eliminating track shoe lug
* At power boost

**ZX850-3**

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load point height</th>
<th>3 m</th>
<th>4 m</th>
<th>6 m</th>
<th>8 m</th>
<th>10 m</th>
<th>12 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load radius</td>
<td>At max. reach</td>
<td>meter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BB beam 6.8 m BE-beam</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td>12.00</td>
<td></td>
</tr>
<tr>
<td>Bucket digging force* ISO</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td>12.90</td>
<td></td>
</tr>
</tbody>
</table>

Eliminating track shoe lug
* At power boost
EQUIPMENT
ZX850-3 / ZX850LC-3

STANDARD EQUIPMENT

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

ENGINE
- H/P mode control
- P mode control
- E mode control
- 50 A alternator
- Dry-type air double filter with air filter restriction switch for monitor
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system

CAB
- CRES II cab
- OPG top guard fitted Level I (ISO10262) compliant cab
- All-weather sound suppressed steel cab
- Tinted (green color) glass windows
- 6 fluid-filled elastic mounts
- Adjustable reclining suspension seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto-idle selector
- Retractable Seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

MONITOR SYSTEM
- Display of meters: water temperature, hour, fuel rate, clock
- Other displays: work mode, auto-stop
- Alarm buzzers: overheat, engine oil pressure

UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- E-P control system
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Drain filter
- Quick warm-up system for pilot circuit

LIGHTS
- 3 working lights
- 2 cab lights

UPPERSTRUCTURE
- Undercover
- 13 300 kg counterweight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

FRONT ATTACHMENTS
- Flanged pin
- Centralized lubrication system
- Dirt seal on all bucket pins
- 8.4 m boom and 3.7 m arm
- 3.5 m² (SAE, PCSA heaped) bucket

HYDRAULIC SYSTEM
- Work mode selector
- Engine speed sensing system
- E/P control system
- Power boost
- Auto power lift
- Boom mode selector system
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Drain filter

OPTIONAL EQUIPMENT

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

- H/R cab: OPG top guard fitted Level II (ISO10262) compliant cab
- Hose rupture valves
- Electric fuel refill pump with autostop
- Swing motion alarm device with lamps
- Overload alarm
- Rear view camera
- Front glass lower guard
- Front glass upper guard
- Full track guard
- 750 mm double grouser shoe
- 900 mm double grouser shoe: Z0850LC-3
- Counterweight removal device
- 7.1 m BE-boom
- 2.95 m BE-arm
- 4.4 m arm

- Pre cleaner
- Ripper pin
- Centralized lubrication system
- Dirt seal on all bucket pins
- 8.4 m boom and 3.7 m arm
- 3.5 m² (SAE, PCSA heaped) bucket

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant treads, plates, handrails and sidewalk
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system
- Front glass lower guard
- Front glass upper guard
- Full track guard
- 750 mm double grouser shoe
- 900 mm double grouser shoe: Z0850LC-3
- Counterweight removal device
- 7.1 m BE-boom
- 2.95 m BE-arm
- 4.4 m arm

- Pre cleaner
- Ripper pin
- Centralized lubrication system
- Dirt seal on all bucket pins
- 8.4 m boom and 3.7 m arm
- 3.5 m² (SAE, PCSA heaped) bucket

- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant treads, plates, handrails and sidewalk
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system
### TRANSPORTATION

#### UPPERSTRUCTURE

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZX850</td>
<td>6,040 mm</td>
<td>2,980 mm</td>
<td>3,500 mm</td>
</tr>
<tr>
<td>ZX850LC</td>
<td>6,040 mm</td>
<td>2,980 mm</td>
<td>3,500 mm</td>
</tr>
<tr>
<td>ZX850H</td>
<td>6,040 mm</td>
<td>2,980 mm</td>
<td>3,500 mm</td>
</tr>
<tr>
<td>ZX850LCCH</td>
<td>6,040 mm</td>
<td>2,980 mm</td>
<td>3,500 mm</td>
</tr>
</tbody>
</table>

#### SIDE FRAME

<table>
<thead>
<tr>
<th>Shoe width</th>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZX850</td>
<td>650 mm</td>
<td>5,840 mm</td>
<td>1,500 mm</td>
<td>1,320 mm</td>
</tr>
<tr>
<td>ZX850LC</td>
<td>750 mm</td>
<td>5,840 mm</td>
<td>1,500 mm</td>
<td>1,320 mm</td>
</tr>
<tr>
<td>ZX850H</td>
<td>650 mm</td>
<td>6,360 mm</td>
<td>1,500 mm</td>
<td>1,320 mm</td>
</tr>
<tr>
<td>ZX850LCCH</td>
<td>750 mm</td>
<td>6,360 mm</td>
<td>1,500 mm</td>
<td>1,320 mm</td>
</tr>
</tbody>
</table>

#### COUNTERWEIGHT

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>Overall height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,360 mm</td>
<td>720 mm</td>
<td>1,630 mm</td>
<td>13,300 kg</td>
</tr>
</tbody>
</table>

#### BASIC MACHINE (WITHOUT COUNTERWEIGHT)

<table>
<thead>
<tr>
<th>Shoe width</th>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZX850</td>
<td>650 mm</td>
<td>5,770 mm</td>
<td>3,670 mm</td>
<td>3,600 mm</td>
</tr>
<tr>
<td>ZX850LC</td>
<td>750 mm</td>
<td>5,770 mm</td>
<td>3,670 mm</td>
<td>3,700 mm</td>
</tr>
<tr>
<td>ZX850H</td>
<td>650 mm</td>
<td>7,060 mm</td>
<td>3,670 mm</td>
<td>3,600 mm</td>
</tr>
<tr>
<td>ZX850LCCH</td>
<td>750 mm</td>
<td>7,060 mm</td>
<td>3,670 mm</td>
<td>3,700 mm</td>
</tr>
<tr>
<td>ZX850HCH</td>
<td>650 mm</td>
<td>7,060 mm</td>
<td>3,790 mm</td>
<td>3,600 mm</td>
</tr>
</tbody>
</table>

#### BOOM

<table>
<thead>
<tr>
<th>Boom</th>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 m BE</td>
<td>7,490 mm</td>
<td>2,700 mm</td>
<td>1,450 mm</td>
<td>7,670 kg</td>
</tr>
<tr>
<td>8.4 m H</td>
<td>8,780 mm</td>
<td>2,500 mm</td>
<td>1,450 mm</td>
<td>8,200 kg</td>
</tr>
<tr>
<td>8.4 m</td>
<td>8,780 mm</td>
<td>2,500 mm</td>
<td>1,450 mm</td>
<td>8,200 kg</td>
</tr>
</tbody>
</table>

#### ARM

<table>
<thead>
<tr>
<th>Arm</th>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.96 m BE</td>
<td>4,460 mm</td>
<td>1,660 mm</td>
<td>1,330 mm</td>
<td>4,650 kg</td>
</tr>
<tr>
<td>3,7 m H</td>
<td>5,290 mm</td>
<td>1,420 mm</td>
<td>1,330 mm</td>
<td>4,330 kg</td>
</tr>
<tr>
<td>4,4 m</td>
<td>5,880 mm</td>
<td>1,420 mm</td>
<td>1,330 mm</td>
<td>4,660 kg</td>
</tr>
</tbody>
</table>

#### BUCKET

<table>
<thead>
<tr>
<th>Capacity</th>
<th>SAE, PSA heaped</th>
<th>CECE heaped</th>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 m³</td>
<td>2.00 m³</td>
<td>2,210 mm</td>
<td>1,910 mm</td>
<td>1,790 mm</td>
<td>2,700 kg</td>
<td></td>
</tr>
<tr>
<td>3.50 m³</td>
<td>3.10 m³</td>
<td>2,210 mm</td>
<td>1,910 mm</td>
<td>1,790 mm</td>
<td>2,950 kg</td>
<td></td>
</tr>
<tr>
<td>4.50 m³</td>
<td>4.00 m³</td>
<td>2,240 mm</td>
<td>1,790 mm</td>
<td>1,600 mm</td>
<td>3,970 kg</td>
<td></td>
</tr>
<tr>
<td>6.25 m³</td>
<td>6.50 m³</td>
<td>2,240 mm</td>
<td>1,920 mm</td>
<td>1,790 mm</td>
<td>4,100 kg</td>
<td></td>
</tr>
<tr>
<td>9.30 m³</td>
<td>9.00 m³</td>
<td>2,350 mm</td>
<td>1,920 mm</td>
<td>1,790 mm</td>
<td>4,900 kg</td>
<td></td>
</tr>
<tr>
<td>12.35 m³</td>
<td>12.00 m³</td>
<td>2,350 mm</td>
<td>1,920 mm</td>
<td>1,790 mm</td>
<td>5,600 kg</td>
<td></td>
</tr>
</tbody>
</table>

#### BOOM CYLINDERS 850 kg x 2

| Overall height : 410 mm |

#### HOSE OF BOOM CYLINDERS 13 kg x 2 / 9 kg x 2

| Overall height : 150 mm |

#### LEFT SIDEWALK

| Overall height : 150 mm |

---

* Rock bucket
SPECIFICATIONS
ZX850-3 / ZX870H-3 LOADING SHOVEL

ENGINE

Model: Isuzu AH-6WG1XYSA-03
Type: Turbocharged
Aspiration: Direct injection
No. of cylinders: 6
Rated power: ISO 9249, net: 377 kW (523 HP) at 1800 rpm
SBC 1028: net: 377 kW (523 HP) at 1800 rpm
SAE J1349, net: 377 kW (523 HP) at 1800 rpm

Rated power: 32.6 kW (44 HP) at 2200 rpm

HYDRAULIC SYSTEM

• Engine speed sensing system
• Main pumps: 2 variable displacement axial piston pumps
• Pilot pump: 1 gear pump
• Maximum oil flow: 2 x 528 L/min

Piston displacement: 1.65 L
Bore and stroke: 147 mm x 154 mm
Battery: 2 x 12 V / 170 Ah

HYDRAULIC MOTORS

Travel: 2 axle piston motors with parking brake
Swing: 2 axle piston motors

RELIEF VALVE SETTINGS

Implant circuit: 29.4 MPa (300 kgf/cm²)
Swing circuit: 28.3 MPa (280 kgf/cm²)
Travel circuit: 34.3 MPa (350 kgf/cm²)
Pilot circuit: 3.9 MPa (40 kgf/cm²)

HYDRAULIC CYLINDERS

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

Dimensions

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Bore</th>
<th>Rod diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>2</td>
<td>200 mm</td>
</tr>
<tr>
<td>Arm</td>
<td>1</td>
<td>200 mm</td>
</tr>
<tr>
<td>Track</td>
<td>2</td>
<td>170 mm</td>
</tr>
<tr>
<td>Swing</td>
<td>2</td>
<td>120 mm</td>
</tr>
<tr>
<td>Level</td>
<td>1</td>
<td>200 mm</td>
</tr>
</tbody>
</table>

HYDRAULIC FILTERS

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

CONTROLS

Pilot controls, Nachi’s original shock less valve and quick warm-up system built in the plot circuit.

Implant levers: 2
Travel levers with pedals: 2

UPPERSTRUCTURE

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

Swing Device
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shoe-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set hydraulic-released disc type.

Swing speed: 7.3 min⁻¹

Operator’s Cab
Independent spacious cab: 1,005 mm wide by 1,795 mm high, conforming to ISO Standards. (OPG top guard fitted Level II, ISO 10262 compliant cab) Reinforced glass windows on 4 sides for visibility. Rear seat with armrests, adjustable with or without control levers.

International Standardization Organization

UNDERCARRIAGE

Tracks


Numbers of Rollers and Shoes on Each Side

Upper rollers: 3
Lower rollers: 8

Swing Device

Swing Device (each side):

Piston displacement: 2 x 271 L
Bore and stroke: 124 mm x 134 mm

Swing speed: 3.3 rpm

Travel Device

Each track driven by axial piston motor through reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set hydraulic-released disc type. Automatic transmission system: High-Low.

Travel speeds: High: 0 to 4.1 km/h
Low: 0 to 3.1 km/h

WEIGHTS AND GROUND PRESSURE

ZX850-3:
Equipped with 4.0 m³ bottom dump bucket (PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>650 mm</td>
<td>8170 kg</td>
<td>123 kPa (1.25 kgf/cm²)</td>
</tr>
</tbody>
</table>

ZX870H-3:
Equipped with 3.6 m³ bottom dump bucket (PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>650 mm</td>
<td>8280 kg</td>
<td>132 kPa (1.34 kgf/cm²)</td>
</tr>
</tbody>
</table>

LOADING SHOVEL ATTACHMENTS

Boom and arm of air-welded, box-section design. Efficient, automatic level crowding achieved by one lever control because the parallel link mechanism keeps the bucket digging angle constant, and level cylinder circuit maintains the bucket height constant. (Auto-Leveling Crowd Mechanism)

Loading Shovel Bucket (PCSA heaped)
ZX850-3 / ZX870H-3

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (m³)</th>
<th>Width (mm)</th>
<th>No. of teeth</th>
<th>Weight (kg)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom dump</td>
<td>3.80</td>
<td>2100</td>
<td>6</td>
<td>6160</td>
<td>Rock bucket</td>
</tr>
<tr>
<td>Tilt dump</td>
<td>4.00</td>
<td>2450</td>
<td>8</td>
<td>5590</td>
<td>General purpose bucket</td>
</tr>
<tr>
<td>Tilt dump</td>
<td>4.40</td>
<td>2520</td>
<td>8</td>
<td>4900</td>
<td>Rock bucket</td>
</tr>
<tr>
<td>Tilt dump</td>
<td>4.60</td>
<td>2520</td>
<td>8</td>
<td>4900</td>
<td>General purpose bucket</td>
</tr>
</tbody>
</table>

SERVICE REFILL CAPACITIES

Fuel tank: 1,120 L
Engine coolant: 116 L
Engine oil: 57 L
Pump drive: 6 L
Swing device (each side): 15 L
Travel device (each side): 19 L
Hydraulic system: 700 L
Hydraulic oil tank: 500 L
**SPECIFICATIONS**

**ZX850-3 / ZX870H-3 LOADING SHOVEL**

**DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>ZX850-3</th>
<th>ZX870H-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Distance between tumblers</td>
<td>4 590</td>
<td></td>
</tr>
<tr>
<td>B Undercarriage length</td>
<td>5 840</td>
<td></td>
</tr>
<tr>
<td>C Counterweight clearance</td>
<td>1 680</td>
<td></td>
</tr>
<tr>
<td>D Rear-end swing radius</td>
<td>4 600</td>
<td></td>
</tr>
<tr>
<td>E Rear-end length</td>
<td>4 520</td>
<td></td>
</tr>
<tr>
<td>F Overall width of upperstructure</td>
<td>3 630</td>
<td>3 780</td>
</tr>
<tr>
<td>G Overall height of cab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Min. ground clearance</td>
<td>990</td>
<td></td>
</tr>
<tr>
<td>I Track gauge</td>
<td>3 450</td>
<td></td>
</tr>
<tr>
<td>J Track shoe width</td>
<td>650</td>
<td></td>
</tr>
<tr>
<td>K Undercarriage width</td>
<td>4 100</td>
<td></td>
</tr>
<tr>
<td>L Overall length</td>
<td>14 110</td>
<td></td>
</tr>
<tr>
<td>M Overall width</td>
<td>4 120</td>
<td></td>
</tr>
<tr>
<td>N Overall height of boom</td>
<td>4 900</td>
<td></td>
</tr>
</tbody>
</table>

*Excluding track shoe lug*

**WORKING RANGES**

<table>
<thead>
<tr>
<th></th>
<th>ZX850-3</th>
<th>ZX870H-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Min. digging distance</td>
<td>3 310</td>
<td>3 110</td>
</tr>
<tr>
<td>B Min. Level crowding distance</td>
<td>3 730</td>
<td></td>
</tr>
<tr>
<td>C Level crowding distance</td>
<td>3 860</td>
<td></td>
</tr>
<tr>
<td>D Max. digging reach</td>
<td>10 000</td>
<td></td>
</tr>
<tr>
<td>E Max. digging depth</td>
<td>4 970</td>
<td></td>
</tr>
<tr>
<td>F Max. cutting height</td>
<td>10 980</td>
<td></td>
</tr>
<tr>
<td>G Max. dumping height</td>
<td>7 910</td>
<td>4 920</td>
</tr>
<tr>
<td>H Max. bucket opening width</td>
<td>1 690</td>
<td></td>
</tr>
<tr>
<td>I Digging force kN (kgf)</td>
<td>441 (45 000)</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSPORTATION**

**BASIC MACHINE (WITHOUT COUNTERWEIGHT)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Shoe width</th>
<th>A</th>
<th>B</th>
<th>Overall width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZX850-3</td>
<td>650 mm</td>
<td>6 770 mm</td>
<td>3 870 mm</td>
<td>3 670 mm</td>
<td>49 750 kg</td>
</tr>
<tr>
<td>ZX870H-3</td>
<td>650 mm</td>
<td>6 770 mm</td>
<td>3 790 mm</td>
<td>3 670 mm</td>
<td>50 400 kg</td>
</tr>
</tbody>
</table>

**COUNTERWEIGHT 13 200 kg**

**LOADING SHOVEL FRONT ATTACHMENT**

<table>
<thead>
<tr>
<th>Bucket capacity (PQA heaped)</th>
<th>Weight</th>
<th>Overall width</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.60 m³</td>
<td>17 150 kg</td>
<td>2 460 mm</td>
</tr>
<tr>
<td>4.00 m³</td>
<td>17 800 kg</td>
<td>2 560 mm</td>
</tr>
</tbody>
</table>

**LOADING SHOVEL BUCKET**

<table>
<thead>
<tr>
<th>Bucket capacity</th>
<th>A</th>
<th>B</th>
<th>Max. width</th>
<th>Weight</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.60 m³</td>
<td>2 300 mm</td>
<td>6 880 mm</td>
<td>8 880 mm</td>
<td>Bottom dump type rock bucket</td>
<td></td>
</tr>
<tr>
<td>4.00 m³</td>
<td>2 300 mm</td>
<td>5 660 mm</td>
<td>4 980 mm</td>
<td>Bottom dump type general purpose bucket</td>
<td></td>
</tr>
<tr>
<td>4.00 m³</td>
<td>2 260 mm</td>
<td>5 660 mm</td>
<td>4 980 mm</td>
<td>Tilting dump type rock bucket</td>
<td></td>
</tr>
<tr>
<td>4.30 m³</td>
<td>2 260 mm</td>
<td>4 580 mm</td>
<td>4 500 mm</td>
<td>Tilting dump type general purpose bucket</td>
<td></td>
</tr>
</tbody>
</table>

*Notes: Refer to data on the P30, 31 mention for upperstructure, sideframe, boom cylinder, side walk, etc.*
# ZX850-3 / ZX870H-3 LOADING SHOVEL

## STANDARD EQUIPMENT

### ENGINE
- H/P mode control
- P mode control
- E mode control
- 50 A alternator
- Dry-type air double filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system

### CAB
- CRES II cab (ZX850-3)
- OPG top guard fitted Level I (ISO10262) compliant cab (ZX850-3)
- H/R cab (ZX870H-3)
- OPG top guard fitted Level II (ISO10262) compliant cab (ZX870H-3)
- All-weather sound suppressed steel cab
- Laminated round grass (green color) window
- 6 fluid-filled elastic mounts
- Openable windows ; upper and lower front, and left side
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining suspension seat with adjustable armrests
- Electric double horn
- AM-FM radio with digital clock
- Auto-idle selector
- Retractable Seat belt
- Drink holder
- Ashtray
- Storage box
- Glove compartment
- Floor mat
- Short wrist control levers
- Auto control air conditioner
- Pilot control shut-off lever
- Engine shut-off switch

### MONITOR SYSTEM
- Display of meters: water temperature, hour, fuel rate, clock
- Other displays ; auto-idle, glow, rear view monitor (When optional rear view camera is equipped), operating conditions, etc
- Alarms ; overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction etc
- Alarms buzzers ; overheat, engine oil pressure

### UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- Hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Track guard (ZX850-3)
- Full track guard (ZX870H-3)
- Upper and lower rollers
- Reinforced track links with pin seals
- 650 mm double grouser shoes

### HYDRAULIC SYSTEM
- Engine speed sensing system
- E-P control system
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Suction filter
- Full-flow filter
- Pilot filter
- Drain filter
- Quick warm-up system for pilot circuit

### LIGHTS
- 3 working lights
- 2 cab lights

### UPPERSTRUCTURE
- Undercover (ZX850-3)
- 4.5 mm thickness Undercover (ZX870H-3)
- 13 300 kg counterweight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

### OPTIONAL EQUIPMENT
- Swing motion alarm devise with lamps
- Travel motion alarm device
- Biodegradable oil
- Pre cleaner
- Additional 2 cab lights
- Rain guard top cab
- 12 V power source
- Additional fuse box
- Sun visor
- Full track guard (ZX850-3)
- Suspension seat with heater
- Air suspension seat with heater
- Truck under cover
- 4.4 m³ (PCSA heaped) Bottom dump type general purpose bucket (ZX850-3)
- 4.0 m³ (PCSA heaped) Bottom dump type rock bucket (ZX870H-3)

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator’s Manual for proper operation.