HYDRAULIC EXCAVATOR

- **Engine Rated Power**: 260 kW (349 HP)
- **Operating Weight**
  - **SAE, PCSA Heaped**
    - ZX450-3: 45 700 kg / ZX450LC-3: 46 700 kg / ZX470H-3: 47 100 kg / ZX470LCH-3: 48 100 kg
  - **CECE Heaped**
    - ZX450-3: 45 700 kg / ZX450LC-3: 46 700 kg / ZX470H-3: 47 100 kg / ZX470LCH-3: 48 100 kg
- **Backhoe Bucket**: SAE, PCSA Heaped
  - ZX450-3: 1.40 - 2.50 m³ / ZX450LC-3: 1.15 - 2.65 m³
  - ZX470H-3: 1.90 - 2.10 m³ / ZX470LCH-3: 1.90 - 2.50 m³
  - CECE Heaped
    - ZX450-3: 1.20 - 2.20 m³ / ZX450LC-3: 1.00 - 2.30 m³
    - ZX470H-3: 1.70 - 1.80 m³ / ZX470LCH-3: 1.70 - 2.20 m³
- **Loading Shovel Bucket**: SAE, PCSA Heaped
  - ZX450-3 / ZX470H-3: 2.3 - 2.8 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
- Strengthened track links
- Pressed master pins
- Strengthened idler pedestal
- Strengthened idler bracket
- Strengthened upper roller bracket
- Full track guard provided standard (ZAXIS 470H / 470LCH)
- 5% increase in strength with stronger pin material
- Strengthened general-purpose bucket
- Strengthened H-bucket for heavy-duty

Operator comfort
- High visibility inside cab
- Short stroke levers
- Wide foot space
- Comfort designed seat
- Improved controlability and operator comfort

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

Maintenance
- Parallel arrangement of the cooling pack
- Conveniently located inspection points
- Automatic lubrication (optional) / repositioned bucket lubricating points
- Enlarged fuel tank
- Extended hydraulic oil Filter change intervals

Safety measures
- CRES II cab (ZAXIS 450 / 450LC is standard equipped)
- H/R cab (ZAXIS 470H / 470LCH 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 450/450LC/470H/470LCH.

Production: Approx. 14 % Increase

vs. Conventional Model

Advanced Hydraulic Technologies

Increased Digging Force

7 % more bucket digging force and 8 % more arm digging force.

(A)t power boost mode

(vs. Conventional model)

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.

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.

Larger-Diameter Front Piping

Arm piping is increased in diameter to reduce hydraulic loss (theoretically 7 %) for speedy front operation.

Development concept of New Engine

High Power Yet Low Fuel Consumption

4 % increase in output

(vs. Conventional model)

• 280 kW (349 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 suction 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

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.

New Bucket Regenerative System

Swift bucket actions can be done in combined operation for excavation through the new bucket regenerative circuit. When the load to the bucket is light, pressurized oil from bucket cylinder rod side is delivered through a regenerative valve to bucket cylinder bottom side for the effective use of hydraulic energy.
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 swing circle ball bearing utilizes more balls to boost the loading capacity of the swing circle by approximately 6%, allowing stable swing even in tough operation. *(vs. Conventional model)*

**Strengthened Track Links**

The boss diameter of each track link is increased by approximately 19%. The thickness of each track link is also increased by approximately 57%. Thickened track links extend service life. *(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 67% to increase durability and service life. *(vs. Conventional model)*

**Strengthened Idler Bracket**

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

**Full Track Guard Provided Standard (ZAXIS 470H / 470LCH)**

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 Upper Roller Bracket**

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

**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.

**5 % Increase in Strength with Stronger Pin Material**

The strength of pins, used in the arm and boom, is increased by 5%, using harder steel material. *(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 450 / 450LC) 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)

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.

Maintenance support

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

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.

The theft deterrent system

The widescreen 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.

Rear view camera (optional)
Simplified Maintenance

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

Parallel Arrangement of the Cooling Pack

The radiator and oil cooler are laid out in a parallel arrangement, instead of the conventional in-line arrangement. This parallel arrangement is significantly easier to clean around the engine. The air conditioner condenser can be opened for easy cleaning of the condenser 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 650 liters (Conventional model) to 725 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

CRES II Cab
(ZAXIS 450 / 450LC are standard equipped)

The CRES 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 nine-fold loading.

H/R Cab
(ZAXIS 470H / 470LCH are standard equipped)

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

Falling Object Protective Structure
*Falling Object Protective Structure

A Quieter 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 Cleaner Machine

Boarding a clean engine complying with the rigorous emission regulations.

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.

Environmental Features

Boarding a clean engine complying with the rigorous emission regulations.

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.

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.
Parts & Service

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.

Parts

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 an 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.

Service

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**

**ZX470H-3 / ZX470LCH-3**

**ENGINE**
- Model: Isuzu AH-6V90S/KYS-01
- Type: 4-cylinder water-cooled, direct injection
- Aspiration: Turbocharged
- No. of cylinders: 6
- Rated power ISO 9249, net (Without Fan): 260 kW (349 HP) at 1800 min⁻¹ (rpm)
- EEC 91/2068, net (Without Fan): 260 kW (349 HP) at 1800 min⁻¹ (rpm)
- SAE J1349, net (Without Fan): 260 kW (349 HP) at 1800 min⁻¹ (rpm)
- Maximum torque: 1580 Nm (161 kgf m) at 500 min⁻¹ (rpm)
- Piston displacement: 15681.1 cm³
- 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: 2 x 360 L/min

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

**Relief Valve Settings**
- Implement circuit: 31.9 MPa (325 kgf/cm²)
- Swing circuit: 28.4 MPa (300 kgf/cm²)
- Travel circuit: 34.3 MPa (350 kgf/cm²)
- Power boost: 34.3 MPa (350 kgf/cm²)

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

**Dimensions**
- Quantity: 2
- Boom: 170 mm
- Arm: 150 mm
- Bucket: 170 mm

**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 shockless valve.
- Implement levers: 2
- Travel levers with pedals: 2

**UPPERSTRUCTURE**
- Swing Device: Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shaul-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.
- Operator’s Cab: Independent spacious cab, 1005 mm wide by 1755 mm high, conforming to EEC Standards. (OPG top gourd fitted Level II, ISO 10262 compliant cab) Reinforced glass windows on 4 sides for visibility. Raising seat with armrests adjustable with or without control levers.

**UNDERCARRIAGE**

**Dimensions**
- Upper rollers: 3
- Lower rollers: 9: ZX470H-3
- Track shoes: 47: ZX470H-3
- Full track guard: 1

**Travel Device**
- Travel speeds: High: 0 to 5.5 km/h
- Low: 0 to 3.4 km/h
- Maximum traction force: 319 kN (32 500 kgf)
- Gradeability: 70 % (35 degree) continuous

**WEIGHTS AND GROUND PRESSURE**

**ZX470H-3**
- Equipped with 7.0 m H-boom, 3.4 m H-arm, and 19 m² rock bucket (SAE, PCSA heaped).
- Shoe type: Triple grouser
- Shoe width: 600 mm
- Operating weight: 4710 kg
- Ground pressure: 86.6 kPa (0.84 kgf/cm²)

**ZX470LCH-3**
- Equipped with 7.0 m H-boom, 3.4 m H-arm, and 19 m² rock bucket (SAE, PCSA heaped).
- Shoe type: Triple grouser
- Shoe width: 600 mm
- Operating weight: 4810 kg
- Ground pressure: 82.2 kPa (0.84 kgf/cm²)

**BACKHOE ATTACHMENTS**
- Boom and arms are of all-welded, box-section design. A number of boom and arms are available. Bucket is of all-welded, high-strength steel structure. The ZAXIS 470H / 470LCH are a heavy duty type and equipped with a reinforced H-boom or BE-boom and H-arm or BE-arm.

**Service Refill Capacities**
- Fuel tank: 725.0 L
- Engine coolant: 55.0 L
- Engine oil: 470 L
- Swing device (each side): 6.5 L
- Travel device (each side): 11.0 L
- Hydraulic system: 580.0 L
- Hydraulic oil tank: 330.0 L

**Backhoe Buckets**

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Capacity</th>
<th>Width</th>
<th>Number of Teeth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE, PCSA heaped</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without side cutters</td>
<td>With side cutters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZX470H-3</td>
<td>ZX470LCH-3</td>
<td>Recommendation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.0 m H-boom</td>
<td>6.3 m BE-boom</td>
<td>2.9 m BE-arm</td>
<td>3.4 m H-arm</td>
<td></td>
</tr>
<tr>
<td>1.92 m</td>
<td>1.70 m</td>
<td>1.480 mm</td>
<td>1.500 mm</td>
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<td>2.10 m</td>
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<td>1.580 mm</td>
<td>1.580 mm</td>
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<td>2.20 m</td>
<td>2.00 m</td>
<td>1.680 mm</td>
<td>1.700 mm</td>
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<td>2.30 m</td>
<td>2.20 m</td>
<td>1.780 mm</td>
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<tr>
<td>2.40 m</td>
<td>2.30 m</td>
<td>1.880 mm</td>
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</tr>
<tr>
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<td>2.40 m</td>
<td>1.980 mm</td>
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</tr>
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<td>2.080 mm</td>
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<td>2.70 m</td>
<td>2.60 m</td>
<td>2.180 mm</td>
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<td>5</td>
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<tr>
<td>2.80 m</td>
<td>2.70 m</td>
<td>2.280 mm</td>
<td>2.280 mm</td>
<td>5</td>
</tr>
</tbody>
</table>

- Rock bucket: Heavy-duty service
- Ripper bucket: Not applicable
ENGINE
- H/P mode control
- P mode control
- E mode control
- 50 A alternator
- Dry-type air double filter with evacuator valve
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler
- Isolation-mounted engine
- Auto-idle system

CAB
- H/R cab
- 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
- Electric double horn
- AM-FM radio with digital clock
- Auto idle selector
- Retractable Seat belt
- Electric grease gun
- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system

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

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

LIGHTS
- 2 working lights
- 2 cab lights

UPPERSTRUCTURE
- 4.5 mm thickness Undercover
- 6 150 kg counterweight
- Fuel level float
- Rear view camera
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake
- Ladder

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system

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 evacuator valve
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler
- Isolation-mounted engine
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CAB
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- Display of meters: water temperature, hour, fuel rate, clock
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UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- Hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals
- Full track guard
- 600 mm triple grouser shoes

LIGHTS
- 2 working lights
- 2 cab lights

UPPERSTRUCTURE
- 4.5 mm thickness Undercover
- 6 150 kg counterweight
- Fuel level float
- Rear view camera
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake
- Ladder

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system

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

ZX450-3 / ZX450LC-3

ENGINE
Model: Isuzu 6WG1XYSA-01
Type: 4-cylinder water-cooled, direct injection
Aspiration: Turbocharged
No. of cylinders: 6
Rated power
ISO 9240, net .... 206 kW (277 HP) at 2100 rpm (Without Fan)
EBE 821200, net .... 254 kW (341 HP) at 2100 rpm (Without Fan)
SJE-1340, net .... 260 kW (349 HP) at 2100 rpm (Without Fan)
Maximum torque .... 1.85 Nm (166 kgf•m) at 1500 rpm (1) Piston displacement .... 15.681 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
Maximum flow .... 2 x 360 L/min
Pilot pump .... 1 gear pump
Maximum of flow .... 30 L/min

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

Relief Valve Settings
Implant circuit .... 31.0 MPa (325 kgf/cm²)
Swing circuit .... 28.4 MPa (290 kgf/cm²)
Travel circuit .... 34.5 MPa (350 kgf/cm²)
Power boost .... 34.3 MPa (350 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>170 mm</td>
</tr>
<tr>
<td>Arm</td>
<td>1</td>
<td>120 mm</td>
</tr>
<tr>
<td>Bucket</td>
<td>1</td>
<td>170 mm</td>
</tr>
</tbody>
</table>

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

CONTROLS
Pilot controls. Hitachi's original shockless valve. Implement levers .... 2
Travel levers with pedals .... 2

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

Swing Device
Axial piston motor with planetary reduction gear is baked 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 .... 9.0 m/min

Operator's Cab
Independent spacious cab. 1.055 m wide by 1.675 m high, conforming to ISO* Level I Standards. Reinforced glass windows on 4 sides for visibility. Operable front windows (upper and lower). Reclining seat with armrests, adjustable with or without control levers.

UNDERCARRIAGE
Tractors

Numbers of Rollers and Shoes on Each Side
Upper rollers .... 3
Lower rollers .... 8

Traxx shoes .... 47
ZX450-3
53
ZX450LC-3

Track guard .... 2

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 5.5 km/h
Low: 0 to 3.4 km/h

Maximum traction force .... 319 kN (32 500 kgf)
Gradiability .... 70 % (35 degree ) continuous

WEIGHTS AND GROUND PRESSURE
ZX450-3
Equipped with 7.0 m boom, 3.4 m arm, and 1.90 m² bucket (SJE, 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>Triple grouser</td>
<td>650 mm</td>
<td>45 700 kg</td>
<td>52 kPa (0.52 kgf/cm²)</td>
</tr>
<tr>
<td></td>
<td>750 mm</td>
<td>45 400 kg</td>
<td>52 kPa (0.52 kgf/cm²)</td>
</tr>
<tr>
<td>Triple grouser (SAE, PCSA heaped)</td>
<td>650 mm</td>
<td>45 700 kg</td>
<td>52 kPa (0.52 kgf/cm²)</td>
</tr>
<tr>
<td></td>
<td>750 mm</td>
<td>45 400 kg</td>
<td>52 kPa (0.52 kgf/cm²)</td>
</tr>
</tbody>
</table>

ZX450LC-3
Equipped with 7.0 m boom, 3.4 m arm, and 2.10 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>Triple grouser</td>
<td>650 mm</td>
<td>46 700 kg</td>
<td>79 kPa (0.81 kgf/cm²)</td>
</tr>
<tr>
<td></td>
<td>750 mm</td>
<td>45 400 kg</td>
<td>79 kPa (0.81 kgf/cm²)</td>
</tr>
<tr>
<td>Triple grouser (SAE, PCSA heaped)</td>
<td>650 mm</td>
<td>46 700 kg</td>
<td>79 kPa (0.81 kgf/cm²)</td>
</tr>
<tr>
<td></td>
<td>750 mm</td>
<td>45 400 kg</td>
<td>79 kPa (0.81 kgf/cm²)</td>
</tr>
</tbody>
</table>

Note: Depending on the job, conditions, 750 mm grouser shoe and 500 mm grouser shoe may not be recommended for rocky, hard surface or forestry application.

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.

Backhoe Buckets

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Width</th>
<th>No. of teeth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. m. B. Boom</td>
<td>6.3 m</td>
<td>7.0 m</td>
<td>Boom arm</td>
</tr>
<tr>
<td>2.5 m</td>
<td>2.3 m</td>
<td>3.4 m</td>
<td>4.9 m</td>
</tr>
<tr>
<td>SAE, PCSA heaped</td>
<td>OEI heaped</td>
<td>Without side cutters</td>
<td>With side cutters</td>
</tr>
<tr>
<td>1.15 m³</td>
<td>1.0 m³</td>
<td>1.150 m³</td>
<td>1.210 m³</td>
</tr>
<tr>
<td>1.40 m³</td>
<td>1.20 m³</td>
<td>1.280 m³</td>
<td>1.410 m³</td>
</tr>
<tr>
<td>1.80 m³</td>
<td>1.40 m³</td>
<td>1.220 m³</td>
<td>1.350 m³</td>
</tr>
<tr>
<td>2.10 m³</td>
<td>1.70 m³</td>
<td>1.450 m³</td>
<td>1.540 m³</td>
</tr>
<tr>
<td>2.30 m³</td>
<td>2.00 m³</td>
<td>1.520 m³</td>
<td>1.650 m³</td>
</tr>
<tr>
<td>2.65 m³</td>
<td>2.30 m³</td>
<td>1.720 m³</td>
<td>1.860 m³</td>
</tr>
</tbody>
</table>

Applicable shoe type
600 mm Triple grouser
750 mm Triple grouser

ZX450LC-3

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Width</th>
<th>No. of teeth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. m. B. Boom</td>
<td>6.3 m</td>
<td>7.0 m</td>
<td>Boom arm</td>
</tr>
<tr>
<td>2.5 m</td>
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<td>3.4 m</td>
<td>4.9 m</td>
</tr>
<tr>
<td>SAE, PCSA heaped</td>
<td>OEI heaped</td>
<td>Without side cutters</td>
<td>With side cutters</td>
</tr>
<tr>
<td>1.15 m³</td>
<td>1.0 m³</td>
<td>1.150 m³</td>
<td>1.210 m³</td>
</tr>
<tr>
<td>1.40 m³</td>
<td>1.20 m³</td>
<td>1.280 m³</td>
<td>1.410 m³</td>
</tr>
<tr>
<td>1.80 m³</td>
<td>1.40 m³</td>
<td>1.220 m³</td>
<td>1.350 m³</td>
</tr>
<tr>
<td>2.10 m³</td>
<td>1.70 m³</td>
<td>1.450 m³</td>
<td>1.540 m³</td>
</tr>
<tr>
<td>2.30 m³</td>
<td>2.00 m³</td>
<td>1.520 m³</td>
<td>1.650 m³</td>
</tr>
<tr>
<td>2.65 m³</td>
<td>2.30 m³</td>
<td>1.720 m³</td>
<td>1.860 m³</td>
</tr>
</tbody>
</table>

Applicable shoe type
750 mm Triple grouser
950 mm Triple grouser

OPTIONS
- Suitable for materials with density of 1 600 kg/m³ or less
- Not applicable
- Controllable

SERVICE REFILL CAPACITIES

| Fuel tank | 725.0 L |
| Engine coolant | 55.0 L |
| Engine oil | 57.0 L |
| Swing device (each side) | 11.0 L |
| Hydraulic system | 300.0 L |
| Hydraulic oil tank | 330.0 L |
EQUIPMENT
ZX450-3 / ZX450LC-3

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 (Center pillar reinforced structure) cab
- OPG top guard fitted Level II (ISO10262) compliant cab
- ROPS for Excavators compliant cab
- 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

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

UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- 2 track guard (each side) and hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals

LIGHTS
- 2 working lights

UPPERSTRUCTURE
- Undercover
- 9 150 kg counterweight
- Rear view camera
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

FRONT ATTACHMENTS
- Flanged pin
- Monolithically cast bucket link A
- Centralized lubrication system
- Dirt seal on all bucket pins
- 7.0 m boom and 3.4 m arm
- 1.9 m 3 (SAE, PCSA heaped) bucket: ZX 450-3
- 2.1 m 3 (SAE, PCSA heaped) bucket: ZX 450LC-3

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on track frame
- Onboard information controller
- Throttle damper system

OPTIONAL EQUIPMENT

ENGINE
- H/R cab: OPG top guard fitted Level II (ISO10262) compliant cab (with 2 cab lights)
- Hose rupture valves
- Electric fuel refilling pump with autostop
- Swing motion alarm device with lamps
- Travel motion alarm device
- Biodegradable oil
- Extinguisher

CAB
- 2 working lights

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
- Quick warm-up system for pilot circuit

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

UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- 2 track guard (each side) and hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals

LIGHTS
- 2 working lights

UPPERSTRUCTURE
- Undercover
- 9 150 kg counterweight
- Rear view camera
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake
- Ladder

FRONT ATTACHMENTS
- Flanged pin
- Monolithically cast bucket link A
- Centralized lubrication system
- Dirt seal on all bucket pins
- 7.0 m boom and 3.4 m arm
- 1.9 m 3 (SAE, PCSA heaped) bucket: ZX 450-3
- 2.1 m 3 (SAE, PCSA heaped) bucket: ZX 450LC-3

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on track frame
- Onboard information controller
- Throttle damper system

OPTIONAL EQUIPMENT

- H/R cab: OPG top guard fitted Level II (ISO10262) compliant cab (with 2 cab lights)
- Hose rupture valves
- Electric fuel refilling pump with autostop
- Swing motion alarm device with lamps
- Travel motion alarm device
- Biodegradable oil
- Extinguisher

- Overload alarm
- Rear view camera
- Front glass lower guard
- Front glass upper guard
- Full track guard
- 190 mm triple grouser shoe
- 200 mm triple grouser shoe: ZX450LC-3
- 6.3 m BE-boom
- 2.5 m BE-arm
- 2.9 m BE-arm

- Overload alarm
- Rear view camera
- Front glass lower guard
- Front glass upper guard
- Full track guard
- 190 mm triple grouser shoe
- 200 mm triple grouser shoe: ZX450LC-3
- 6.3 m BE-boom
- 2.5 m BE-arm
- 2.9 m BE-arm

- Overload alarm
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- Front glass lower guard
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- 190 mm triple grouser shoe
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- 190 mm triple grouser shoe
- 200 mm triple grouser shoe: ZX450LC-3
- 6.3 m BE-boom
- 2.5 m BE-arm
- 2.9 m BE-arm
SPECIFICATIONS

ZX450-3 / ZX470H-3 LOADING SHOVEL

ENGINE

Model: Isuzu AH-6WG1XYS-01
Type: Turbocharged
Aspiration: 4-cylinder water-cooled, direct injection
No. of cylinders: 6
Rated power: ISO 9249, net

HYDRAULIC SYSTEM

- Engine speed sensing system
- Main pumps: 2 variable displacement axial piston pumps
- Maximum oil flow: 2 x 360 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: 27.9 MPa (285 kgf/cm²)
Swing circuit: 26.4 MPa (260 kgf/cm²)
Travel circuit: 34.3 MPa (350 kgf/cm²)
Pilot circuit: 3.0 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>Boom</th>
<th>Kneel</th>
<th>Level</th>
<th>Bucket</th>
<th>Dump</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Length</td>
<td>2.30 m</td>
<td>1.70 m</td>
<td>1.70 m</td>
<td>1.50 m</td>
<td>0.70 m</td>
</tr>
<tr>
<td>Bore</td>
<td>115 mm</td>
<td>115 mm</td>
<td>115 mm</td>
<td>115 mm</td>
<td>99 mm</td>
</tr>
</tbody>
</table>

Hydraulic Filters

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

SYSTEM FILTER CAPACITIES

Fuel tank: 725.0 L
Engine coolant: 55.0 L
Engine oil: 57.0 L
Travel device (each side): 11.0 L
Hydraulic system: 580.0 L
Hydraulic oil tank: 330.0 L

LOADING SHOVEL ATTACHMENTS

Boom and arm are of all-welded, low-stress full-box section design. Efficient, automatic horizontal crowding achieved by one-lever control because the parallel link mechanism keeps the bucket digging angle constant, and the level cylinder circuit maintains the bucket height constant.

LOADING SHOVEL ATTACHMENTS

Reclining seat with armrests; adjustable with or without control levers. Reinforced glass windows on 4 sides for visibility. Independent spacious cab, 1,005 mm wide by 1,795 mm high, incorporating in the suction line, and full-flow filters in the return line and swing-tractor motor drain lines.

CONTROLS

Pilot controls. Hitachi’s original shockless valve, Implement levers: 2
Travel levers with pedals: 2

UPPERSTRUCTURE

- 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: 9.0 m/min (rpm)

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 10692 compliant cab. Reinforced glass windows on 4 sides for visibility. 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 (ZX450-3)
  Full Track guard: 1 (ZX470H-3)

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 5.5 km/h
Low: 0 to 3.4 km/h
Maximum traction force: 319 kN (35,000 kgf)
Gradability: 70% (35 degree) continuous

WEIGHTS AND GROUND PRESSURE

ZX450-3:
- Equipped with 2.6 m³ bottom dump bucket.
- Shoe type: Triple grouser
- Shoe width: 800 mm
- Operating weight: 47,200 kg
- Ground pressure: 88 kPa (0.90 kgf/cm²)

ZX470H-3:
- Equipped with 2.3 m³ bottom dump bucket.
- Shoe type: Triple grouser
- Shoe width: 600 mm
- Operating weight: 46,100 kg
- Ground pressure: 90 kPa (0.91 kgf/cm²)
**SPECIFICATIONS**

**ZX450-3 / ZX470H-3 LOADING SHOVEL**

### DIMENSIONS

- **A** Distance between tumblers: 4,040
- **B** Undercarriage length: 5,040
- **C** Counterweight clearance: 1,360
- **D** Rear-end swing radius: 3,645
- **E** Rear-end length: 3,560
- **F** Overall width of upperstructure: 3,530
- **G** Overall height of cab: 3,450
- **H** Min. ground clearance: 723
- **I** Track gauge: 2,890
- **J** Track shoe width: 600
- **K** Undercarriage width extended / retracted: 3,490 / 2,990
- **L** Overall length: 12,000
- **M** Overall width*: 3,000
- **N** Overall height of boom**: 3,960

*Excluding track shoe lug

### WORKING RANGES

**ZX450-3 / ZX470H-3**

- **A** Min. digging distance: 2,750
- **B** Min. Level crowding distance: 2,220
- **C** Level crowding distance: 2,750
- **D** Max. digging reach: 8,780
- **E** Max. digging depth: 4,180
- **F** Max. cutting height: 10,030
- **G** Max. dumping height: 7,500
- **H** Max. bunget opening width: 1,560
- **I** Digging force (kN (kgf)): 271 (27,600)

*Excluding track shoe lug

### TRANSPORTATION

**TRANSPORTATION SPECIFICATIONS**

- **Type**
  - Bottom dump
  - Tilt dump

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity</th>
<th>A Width</th>
<th>B Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom dump</td>
<td>2.30 m³</td>
<td>2,060 mm</td>
<td>2,140 mm</td>
<td>2,340 kg</td>
</tr>
<tr>
<td>Tilt dump</td>
<td>2.60 m³</td>
<td>2,020 mm</td>
<td>2,030 mm</td>
<td>2,820 kg</td>
</tr>
</tbody>
</table>

* Undercarriage retracted

---

**BASIC MACHINE (WITHOUT COUNTERWEIGHT)**

- **ZX450-3**
  - Shoe width: 600 mm
  - Overall width*: 3,000 mm
  - Weight: 27,600 kg

- **ZX470H-3**
  - Shoe width: 600 mm
  - Overall width*: 3,000 mm
  - Weight: 28,200 kg

* Undercarriage retracted

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**COUNTERWEIGHT 9 150 kg**

- **LEFT SIDEWALK 44 kg**
  - Overall height: 1,340 mm

- **LEFT SIDEWALK 30 kg**
  - Overall height: 1,500 mm
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.