EQUIPMENT

Zaxis330LC/370

Rated Engine
247 hp (180 kW)

Operating Weight
Zaxis 330LC : 73,500 lbs (33 339 kg)
Zaxis 370 : 82,100 lbs (37 239 kg)

Bucket Capacity
1.20 - 2.74 yd³ (0.92 - 2.09 m³)

STANDARD EQUIPMENT

ENGINE
• Meets EPA Tier II non-road emissions regulations
• HP mode control
• E mode control
• 50 A alternator
• Dry-type air double filters with evacuator valve
• Cartridge-type engine oil filter
• Radiator and oil cooler with dust-protective net
• Fan guard
• Isolation-mounted engine
• Auto idle system
• Auto acceleration system

HYDRAULIC SYSTEM
• Work mode selector
• Engine speed sensing system
• E-P control system
• Power boost
• Auto power lift
• Quick warm-up system for pilot circuit
• Shockless valve in pilot circuit
• Boom-arm reduced shift valve
• Control valve with main relief valve
• Extra auxiliary port in control valve
• Suction filter
• Full-flow filter
• Pilot filter

CAB
• CRES (Center pillar Reinforced Structure) design
• All-weather sound-suppressed steel cab
• Tinted (bronze color) glass windows
• 4 Fluid-filled elastic mounts
• Upper and lower front windows and left side windows that open
• Intermittent windshield retractable wipers
• Front window washer
• Deluxe suspension seat with lumbar support
• Footrest
• Electric double horn
• 12 V-60 W, 5 amp, cellular phone outlet
• AM-FM stereo with digital clock
• Auto-idle/acceleration selector
• Seat belt, 2” (50 mm) retractable
• Large cup holder
• Light switch

MONITOR SYSTEM
• Meters:
  - Hourmeter, trip meter, engine coolant temperature gauge, and fuel gauge
  - Warning lamps:
    - Alternator charge, engine oil pressure, engine overheat, air filter restriction, and minimum fuel level
  - Pilot lamps:
    - Engine preheat, engine oil level, engine coolant level, hydraulic oil level, work light, auto-idle, auto-acceleration, digging mode, attachment mode
  - Alarm buzzers:
    - Engine oil pressure and engine overheat

LIGHTS
• 2 Working lights

OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

OPTIONAL EQUIPMENT

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.
**One Powerful Solution**

**Rigid Undercarriage**
A reshaped box design with X-beams helps disperse stress and boosts the overall rigidity of the entire undercarriage.

**Durable**
Extensive steps have been taken to improve basic performance and overall durability.

**Multi-function Operations**
The Zaxis 330LC/370 continues the Hitachi tradition of smooth, multi-functioning excavators. Executing combined operations such as simultaneous swinging and traveling are easy with Zaxis.

**High-Power Engine**
The Isuzu AA-6HK1X generates:
- 237 hp @ 1,900 rpm in P mode (173 kW/min⁻¹)
- 247 hp @ 2,000 rpm in H/P mode (180 kW/min⁻¹)
- 644 lbf•ft max. torque @ 1,700 rpm (89 kgf•m/min⁻¹)
and meets EPA Tier II non-road emission regulations.

**Safety, Comfort, and Convenience**
The operator’s compartment is designed for both comfort and operating efficiency.

**Machine Information Center**
The Machine Information Center captures and stores vital machine performance data such as engine speeds, hydraulic temperatures, pump pressures, alarms and faults, hours of operation, and more. The data is downloadable through a Palm® Pilot and is transferred to your PC. Special PC software interprets the data and generates valuable machine performance reports and graphs highlighting machine utilization, performance history, and more to help users improve productivity and profit.

Smarter, faster, more productive yet more efficient—the versatile Hitachi Zaxis 330LC/370 can be found at construction sites, demolition sites and scrap yards. Boasting a cleaner yet more powerful engine and a host of new items as well as significant refinements, Zaxis is the next generation in excavator development.
**The Zaxis Advantage**

**Higher Productivity**

Zaxis uses the latest technologies to achieve lower total operational costs while boosting productivity. The bucket digging force (SAE/JCA) is an impressive 650 T (23,000 lb). Auto power flow boosts power by 9% when the load is increased during scooping-up operations.

**Cab Comfort**

The Auto-control air conditioner allows you to set a specific temperature, then forget it. Bi-level air defectors are positioned throughout the cab to promote even air flow. A reshaped X-beam track frame, D-type frame and rigid cab bed work together with the 4 silicon-filled rubber cushions to reduce noise and vibration.

**Work Modes**

Simply select the “digging” mode for smooth, speedy front operations. Select “attachment” to use various hydraulic attachments like breakers or crushers.

**Auto Acceleration**

Engine speed is automatically controlled in response to the amount of lever operation. This helps reduce fuel consumption, especially during light load work.

**Lower Operating Costs**

Strengthened components, longer lubrication intervals, reduced fuel consumption, 4,000-hour hydraulic oil and 1000-hour hydraulic oil filters extend Zaxis durability while reducing running and repair costs.

**MIC (Machine Information Center)**

Zaxis excavators monitor and store a variety of operational data. This includes: alarms, gear records, hours of operation, engine speed distribution, average pump pressure distribution for digging and travel, radiator coolant temperature, fuel level, swing, travel and front operation, and more. This data can be downloaded in the field to a palm-type computer, then uploaded onto your office PC for analysis.

**CAB SAFETY**

The CRES (Center pillar Reinforced Structure) rigid cab is designed with safety in mind. The closed-section pillar and reinforcing members at central areas withstand vertical and horizontal external forces. This can help reduce the potential of operator injury in the event of an accident.

**Operator Command**

Switches and other essential controls are located near the operator. Key areas can be monitored at a glance. This helps keep operator movement to a minimum enhancing control and helping to fight fatigue.

**Auto Acceleration**

Engine speed is automatically controlled in response to the amount of lever operation. This helps reduce fuel consumption, especially during light load work.

**HYDRAULIC SYSTEM**

Work mode selector allows operator to choose between Digging mode or Attachment mode. Engine speed sensing system. Main pump: Variable displacement axial piston pumps, Max. oil flow: 2 x 76.5 US gpm (2 x 290 L/min), 2 x 63.8 lpm (2 x 240 L/min), Pilot pump: 1 gear pump, Max. oil flow: 8.5 US gpm (32 L/min), 7.0 lpm (27 L/min).

**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.

**UNDERCARRIAGE**

Tracks

- Track-type undercarriage. Welded track frame using selected materials. Side frame bolted to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with triple-grouser or double-grouser hardened rolled alloy. Flat and triangular shoes are also available. Heat-treated connecting pins with dirt seals. Hydraulic (grace) track adjusters with shock-absorbing recoil springs.

- Number of Rollers and Shoes on Each Side
  - Upper rollers: 2
  - Lower rollers: 3
  - Track shoes: 24
  - Track guard: 1

- Traction Device
  - Each track driven by 2-speed axial piston motor through planetary reduction gear for counter-rotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Travel shockless valve built in travel motor absorbs shocks when stopping travel.

**SPECIFICATIONS**

**SPECSUMMARY**

<table>
<thead>
<tr>
<th>Type</th>
<th>4-cycle water-cooled, direct injection</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Rated power</td>
<td>330 LC</td>
</tr>
<tr>
<td>H/P mode</td>
<td>273 hp (173 kW) @ 1,900 rpm (min -1)</td>
</tr>
<tr>
<td>P mode</td>
<td>330 LC</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>644 lbf•ft (89 kgf•m) @ 2,000 rpm</td>
</tr>
<tr>
<td>Piston Displacement</td>
<td>475 in³ (7.900 L)</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>4.53 in x 4.92 in (115 mm x 125 mm)</td>
</tr>
<tr>
<td>Batteries</td>
<td>2 x 12 V, 97 AH</td>
</tr>
<tr>
<td>Governor</td>
<td>270</td>
</tr>
</tbody>
</table>

**WEIGHTS/GROUND PRESSURE**

Standard North American backhoe model Zaxis 330LC:
- 21’ 0” (6.40 m) boom, 10’ 6” (3.20 m) arm, 1.83 yd³ (1.4 m³) PSC papered bucket, 31” (800 mm) triple grouser shoes. Zaxis 370 Standard North American has 30” (750 mm) triple grouser shoes.

- Weight: 73,500 lb (33 393 kg) | 330 LC
- 128,100 lb (58 239 kg) | 370 LC

**BACKHOE ATTACHMENTS**

- Boom and arms of all welded, box-section design, 21’ 0” (6.40 m) boom, 9’ 9” (2.66 m), 10’ 6” (3.20 m), and 13’ 2” (4.0 m) arms are available. Bucket is all-welded, high-strength steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.
## Lifting Capacities

### Specification Table

<table>
<thead>
<tr>
<th>Condition</th>
<th>Load Point Height</th>
<th>Load Radius</th>
<th>Load Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 ft. (3.05 m)</td>
<td>15 ft. (4.57 m)</td>
<td>20 ft. (6.10 m)</td>
</tr>
<tr>
<td><strong>Basics</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heavy-Duty</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plate Lip</td>
<td></td>
<td></td>
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<tr>
<td>30 ft. (9.14 m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 ft. (1.52 m)</td>
<td>10 ft. (3.05 m)</td>
<td>15 ft. (4.57 m)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bucket Capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3 yd (1.76 m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 ft. (1.52 m)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
| *All capacities are SAE heaped ratings and with side cutters.*

### 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 firm, level ground at 60% full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. *Valve load limit based by hydraulic capacity.

### Specifications

<table>
<thead>
<tr>
<th>Type Bucket</th>
<th>Bucket Width</th>
<th>Capacity</th>
<th>Weight (kg)</th>
<th>Dig Force (kN)</th>
<th>Tip Radius (mm)</th>
<th>Teeth</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZAXIS330LC</td>
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</tbody>
</table>

### Overview

- **ZAXIS330LC/370**
- **Full line of buckets is offered to meet a wide variety of applications.**
- **Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, except the ditching bucket.**
- **Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth.**
- **Replaceable cutting edges are available through John Deere parts. Optional side cutters add 6 inches (150 mm) to bucket widths.**
- **Load radius**
- **Load point height**
- **Lifting capacity**

### Table

<table>
<thead>
<tr>
<th>Type Bucket</th>
<th>Bucket Width</th>
<th>Capacity</th>
<th>Weight (kg)</th>
<th>Dig Force (kN)</th>
<th>Tip Radius (mm)</th>
<th>Teeth</th>
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<tbody>
<tr>
<td>ZAXIS330LC</td>
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</tr>
</tbody>
</table>

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**Image Description**

- **Picture of a ZAXIS330LC/370 excavator lifting soil.**
- **Machine equipped with a large bucket and extended arm.**

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**Textual Extraction**

- **General-Purpose**
- **Heavy-Duty**
- **High Capacity**

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**Legend**

- A: Load radius
- B: Load point height
- C: Lifting capacity

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**Rating over-side or 360 degrees**

**Rating over-front**

**Unit: lb (kg)**

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**Booth 210° (6.40 m)**

**Arm 8° (2.44 m)**

**Bucket**

2.3 yd³ (1.76 m³)

**Shoe (600 mm)**

2.3 yd³ (1.76 m³)

---

**Booth 210° (6.40 m)**

**Arm 10° (2.56 m)**

**Bucket**

2.3 yd³ (1.76 m³)

**Shoe (600 mm)**

---

**Booth 210° (6.40 m)**

**Arm 13° (3.81 m)**

**Bucket**

2.3 yd³ (1.76 m³)

**Shoe (600 mm)**

---

**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 firm, level ground at 60% full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. *Valve load limit based by hydraulic capacity.
## 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 firm, 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. *Indicates load limited by hydraulic capacity.

### ZAXIS330LC

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load radius</th>
<th>Unit: lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm 8'9&quot; (2.66 m)</td>
<td>Bucket 2.3 yd (1.76 m)</td>
<td></td>
</tr>
<tr>
<td>20 ft. (6.10 m)</td>
<td>*15,949 (7234)</td>
<td></td>
</tr>
<tr>
<td>25 ft. (7.62 m)</td>
<td>*14,921 (6768)</td>
<td></td>
</tr>
<tr>
<td>30 ft. (9.15 m)</td>
<td>*13,893 (6303)</td>
<td></td>
</tr>
</tbody>
</table>

### ZAXIS370

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load radius</th>
<th>Unit: lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm 10'6&quot; (3.2 m)</td>
<td>Bucket 2.3 yd (1.76 m)</td>
<td></td>
</tr>
<tr>
<td>20 ft. (6.10 m)</td>
<td>*15,603 (7077)</td>
<td></td>
</tr>
<tr>
<td>25 ft. (7.62 m)</td>
<td>*14,576 (6612)</td>
<td></td>
</tr>
<tr>
<td>30 ft. (9.15 m)</td>
<td>*13,549 (6123)</td>
<td></td>
</tr>
</tbody>
</table>

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**Load radius**
- **Rating over-side or 360 degrees**
- **Rating over-front**

**Load point height**
- **A: Load radius**
- **B: Load point height**
- **C: Lifting capacity**

**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 firm, level ground or 87% full hydraulic capacity.
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