EQUIPMENT

STANDARD EQUIPMENT

ENGINE
- Meets EPA Tier II non-road emissions regulations
- HP mode control
- E mode control
- SO A alternator
- Dry-type air dual filters with evacuator valve
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Air cleaner double 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
- Boom arm reduced drift valve
- Control valve with main relief valve
- Extra auxiliary port in control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Pilot cab
- CRES (Center pillar Reinforced Structure) design
- All-weather sound-suppressed steel cab
- Reinforced, tinted bronze color glass windows
- Four fluid-filled elastic mounts
- Upper and lower front windows and left side windows that open
- Intermittent windshield retractor
- Front window wiper
- Deluxe suspension cloth seat with 4’ (100 mm) adjustable armrests with lumbar support
- Footrest
- Electric double horn
- 12 V-60 W, 10 amp, cellular phone outlet
- AM/FM stereo with digital clock
- Footrest
- Auto-idle/acceleration selector

MONITOR SYSTEM
- Meters: Hourmeter, trip meter, engine coolant temperature gauge, and fuel gauge
- Warning lamps: Alternator charge, engine oil pressure, engine overheated, 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 overheated

LIGHTS
- 2 working lights

UPPERSTRUCTURE
- Undercover
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror
- Swing parking brake
- Travel parking brake
- Travel motor covers
- Travel motion alarm device
- Track guards and hydraulic track adjuster
- Bench on scoop seat
- Upper rollers and lower rollers
- Reinforced track links with pin seals

FRONT ATTACHMENTS
- HN bushing
- MC thermal spraying
- Reinforced reinforced lip
- Flange pin
- Bucket clearance adjustment mechanism
- Monolithically cast bucket link A
- Contoured lubrication system
- Dust cap
- Lock-out on all bucket pins

MISCELLANEOUS
- Lock-out machine covers
- Lock-out fuel filling cap
- Skid-resistant tapes, plates, and handrails
- Travel direction mark on track frame
- On-board MIC

OPTIONAL EQUIPMENT
- 9’ 9” (2.96 m) arm
- 11’ 10” (3.61 m) arm
- 24” (600 mm) reinforced triple grouser shoes
- 28” (700 mm) reinforced triple grouser shoes
- 32” (800 mm) reinforced triple grouser shoes
- Window vandal protection covers
- Auxiliary hydraulic and electric pilot controls
- Hydraulic filter restriction indicator kit
- Auxiliary hydraulic line with cut-off valve
- Buckets, digging general purpose, heavy-duty, heavy-duty high capacity, heavy-duty cast lip, side cutter, plate lip, side cutters and teeth
- Hydraulic bucket material clamps
- Hydraulic coupler
- Steel belt, 3” (75 mm) non-reinforced
- Alternate pilot control pattern
- Cab circulation fan
- 24- to 12-volt, DC-to-DC converters, 10 amp
- Secondary seat kit/top hatch
- Ripper
- Boom and arm anti-drift valves
- Lower front window guards
- Tropical doors - left and right hand side
- Less boom and arm
- Single pedal propel control
- Heavy-duty grapple
- Protection screens for cab front, rear and side
- ISO 14502-1 (Modified)/FOPS (Falls-Object Protective System) with integrated headguard
- Track style guards
- Undercarriage frame opening guard
- Cab extention harness
- Tool kit

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.
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 230LC 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 CC-6BG1T generates:
- 158 hp @ 2,000 rpm in P mode (116 kW/min⁻¹)
- 167 hp @ 2,100 rpm in H/P mode (123 kW/min⁻¹)
- 470 lbf-ft max. torque @ 1,800 rpm (65 kgf·m/min⁻¹)
and meets EPA Tier II non-road emission regulations.

Smarter, faster, more productive yet more efficient—the versatile Hitachi Zaxis 230LC can be found at construction sites all over the world. 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.

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.
**The Zaxis Advantage**

**Higher Productivity**
Zaxis uses the latest technologies to achieve lower total operational costs while boosting productivity. Arm digging and bucket digging forces have been increased by 7% and 8% respectively by increasing the hydraulic cylinder diameter.

**Cab Comfort**
The easy-to-read monitor panel and switches are located near the operator to minimize fatigue and enhance operator control. The Auto-control air conditioner allows you to set a specific temperature, then forget it. Bi-level air ducts are positioned throughout the cab to promote even air flow.

**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**
Increased Travel and Swing Power
Aimed with plenty of dependable power for travel and swing operations, the Zaxis 230LC is ready for the toughest of terrains and job sites thanks to improved travel motors and swing reduction gear. It has 8% more swing torque and 5% more travel power than the EX230 LC.

**Auto Acceleration and Auto Idle**
Engine speed is automatically controlled in response to the amount of lever operation. This helps reduce fuel consumption, especially during light load work, up to 6%. The Auto Idle Control reduces the engine speed automatically to save energy when the lever is in neutral.

**Auto Power Lift**
Loads are increased during bucket-filling operations. The Auto Power Lift function automatically provides a 6% increase in power to meet the demand.

**Lower Operating Costs**
Reduced fuel consumption, a strengthened main frame, front attachment, and undercarriage, longer lubrication intervals, 4,000-hour hydraulic oil and 1,000-hour hydraulic oil filters all work together to extend the durability of Zaxis while reducing running and repair costs.

**Work Modes**
Two modes simplify excavating operations. Select the “Digging” mode for smooth and speedy front operations or “Attachment” to use a wide variety of tools such as breakers, compactors, and crushers.

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**SERVICE REFILL CAPACITIES**

<table>
<thead>
<tr>
<th>Component</th>
<th>Fuel tank</th>
<th>Engine coolant</th>
<th>Engine oil</th>
<th>Swing mechanism</th>
<th>Travel final device</th>
<th>Hydraulic system</th>
<th>Hydraulic tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liters</td>
<td>380.0</td>
<td>23.0</td>
<td>25.0</td>
<td>8.6</td>
<td>7.2</td>
<td>148.0</td>
<td>148.0</td>
</tr>
<tr>
<td>Imp gal</td>
<td>83.6</td>
<td>5.1</td>
<td>5.5</td>
<td>1.9</td>
<td>1.6</td>
<td>32.6</td>
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**CONTROLS**

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<tbody>
<tr>
<td>Pilot controls</td>
<td>Hitachi’s original shockless valve and quick warm-up system built in the pilot circuit.</td>
</tr>
<tr>
<td>Hydraulic warm-up control</td>
<td>System for engine and hydraulic oil.</td>
</tr>
<tr>
<td>Implement lever</td>
<td>Travel levers with pedals</td>
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**BACKHOE ATTACHMENTS**

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<td>19’8” (6.0 m) boom, 7’7” (2.32 m), 9’8” (2.96 m), and 11’10” (3.61 m) arms.</td>
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<tr>
<td>Bucket</td>
<td>1.30 yd³ (1.0 m³) high-strength steel bucket with a 40” (1.005 mm) wide by 66” (1.675 mm) high cylinder.</td>
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<tr>
<td>Upperstructure</td>
<td></td>
</tr>
<tr>
<td>Revolving Frame</td>
<td>Welded, sturdy box construction, using heavy-gauge steel plates for ruggedness.</td>
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<tr>
<td>Swing Mechanism</td>
<td>Axial piston mechanism with planetary reduction gear is bathed in oil.</td>
</tr>
<tr>
<td>Hydraulic Filters</td>
<td>Hydraulic circuits using 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.</td>
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**WEIGHTS/GROUND PRESSURE**

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