We are as passionate as ever about this industry.
We are dedicated to building the best equipment in the world, and we continue to improve them.

HITACHI

www.hitachiconstruction.com

ALWAYS IMPROVING

HITACHI

UTILITY-CLASS EXCAVATORS

ZAXIS
120-3
160LC-3
200LC-3
PRODUCTIVE HYDRAULICS:
Dash-3 hydraulics are smarter and more responsive to bucket resistance. Multiple sensors instantly feed automatic micro-adjustments for increased hydraulic power to maintain steady, sure movements. Boom, stick, and bucket cylinders feature regenerative flow for faster down movements, extremely fine control, and multitasking.

IMPROVED CAB FEATURES:
A bigger, quieter, more accessible cab with better legroom, more visibility, and an improved monitor system makes the Dash-3 Excavator every operator’s delight. The large multilingual monitor keeps the operator up-to-date on machine performance and diagnostics.

MORE EFFICIENT ENGINE:
The new Tier-3-certified engines feature a common-rail injection system that increases engine output while lowering fuel consumption. A strengthened cylinder block and ladder frame give longer life.

IMPROVEMENTS ACROSS THE BOARD
Our three utility-class excavators can handle everything from the mundane to the exotic, without missing a beat. The ZX120-3 and ZX160LC-3 are easily towed behind dump trucks, and the ZX200LC-3 can be transported with heavy-duty commercial trucks. And one — the ZX120-3 — is available with rubber crawler pads and a backfill blade.

These Dash-3 Excavators are heavier, stronger, faster, and quieter than ever — improvements sure to increase productivity and profits. Amazingly, the increases in power and speed do not increase fuel consumption, thanks to the Tier-3 Isuzu engines.

BETTER PERFORMANCE
We’ve taken advantage of the need to meet Tier-3-emission certification and made a number of substantial changes to give you the best performance possible. The undercarriage is tougher. The upperstructure has been reinforced. The excavators are heavier. Performance specs are better. Of course, emission levels are lower and fuel economy is improved. And the excavators require little effort to give precise, smooth, and powerful performance.

HOW DOES THAT HAPPEN?
Gutsy new Tier-3-certified Isuzu engines are why Dash-3 machines outperform the competition in high-production applications. They are also why the numbers on your monthly fuel bill will be noticeably smaller.

The updated HIOS III hydraulic system is a perfect match to the engines. It uses regenerative hydraulics to give you faster, stronger operation of the arm and more responsive control of front attachments.

BETTER MULTIFUNCTION OPERATIONS
No brand of excavator can simultaneously propel, dig, and rotate as effortlessly as the new Dash-3s. Outstanding multifunction operation is a Hitachi tradition, and the HIOS III hydraulic system intends to keep it that way.

MORE DONE AT LESS COST
Check it out:
• Less Fuel Consumption
• Increased Arm Roll-In Speed
• Increased Swing Torque
• Increased Digging Force
• Tier-3 Certified
• More X-Frame Strength
• New E-Mode
• Programmable Auxiliary Hydraulics
• Heated/Air-Suspension Seat Option
• Increased Weight for Enhanced Lift Capacity*

*ZX160LC-3 only.

More Done at Less Cost
The new Tier-3-certified engines feature a common-rail injection system that increases engine output while lowering fuel consumption. A strengthened cylinder block and ladder frame give longer life.
Controllability has always been a Hitachi hallmark. Even new operators notice and admire the smooth, responsive way orange excavators go about their work. Now, the HIOS III hydraulic system makes any job feel like less work. Whether you are digging around buried obstructions, loading trucks, or setting pipe, the new Dash-3s deliver best-in-class performance.

Engine performance and hydraulic flow are perfectly balanced for fast, smooth, and precise operations. Faster cycle times are why the Dash-3s are more productive. A new hydraulic boosting system helps get it done with regenerative hydraulics. Oil is routed from the bottom side of the boom cylinders to the rod side of the arm cylinder. At the same time, oil from the pump flows to the arm cylinder. This one-two punch delivers faster, more aggressive boom-arm speed. (You’ll really notice how much faster the arm returns to digging position.)

And what’s really impressive is how the HIOS III hydraulic system takes advantage of the increase in hydraulic performance and horsepower without sacrificing our characteristic smoothness and multifunction operations capabilities.

**END RESULT?**

An increase in swing torque for faster cycle times. Plus, faster arm roll-in and faster boom-lower/arm movement. This means you get more dirt moved every hour and more profit added to your bottom line.

Next-generation pilot valves provide improved responsiveness and control. The ergonomic, short-throw levers are easy to use. Best-in-class metering and smooth multifunction operations provide precision in the field. And the operator can now program auxiliary attachment flow through our new monitor in the cab.

LOWER FUEL CONSUMPTION, MORE TORQUE

DASH-3 EXCLUSIVE ISUZU TIER-3-CERTIFIED ENGINE

With increased fuel prices, fuel-efficient equipment is a must. Hitachi excavators, with their fuel-thrifty Isuzu engines, have traditionally been the most fuel-efficient option on the market. The all-new and improved Isuzu Tier-3-certified engines are super powerful, compact, and more fuel efficient than ever.

Isuzu Tier-3-certified engines for Hitachi excavators are a new design — they’re better, and they simply operate cleaner. How?

The Exhaust Gas Recirculation (EGR) system reduces fuel consumption with an isochronous-controlled electronic governor and a common-rail-type fuel-injection system. Exhaust gas is partially mixed with suction air to reduce the concentration of oxygen in the combustion chamber. This lowers the temperature in the cylinder, which reduces fuel consumption and NOx levels. The EGR system’s cooler lowers exhaust gas temperatures for complete combustion, reducing particulate matter.

The electronic governor provides isochronous engine-speed control. The engine speed is kept constant, despite the load to the engine. Unlike a conventional mechanical governor, isochronous control is free from wasteful speed increases when the load to the engine is reduced to a minimum. This effectively reduces fuel consumption and noise under no-load or light-load operations.

The engine also features good cold-weather starting ability and can run at higher altitudes without adjustment.

IMPROVED EFFICIENCY

The new engine increases airflow to the cylinders to boost combustion efficiency. Use of the common-rail-type fuel-injection system means fuel-injection pressure, timing, and volume can be precisely regulated by electronic control for efficient combustion. Isuzu also has the industry’s first cooled Exhaust Gas Recirculation (EGR) system, which lets part of the exhaust gas mix with suction air for recombustion. An isochronous-controlled electronic governor maintains a constant speed despite changes in engine load, reducing fuel consumption and noise in no-load and light-duty operations.

The overall result is a lot more horsepower, a lot fewer emissions, and low fuel consumption.
LARGER

Operators, rejoice! The CRES II cab is larger, has more legroom, and a wider, more comfortable seat. There is more visibility to the front and 47-percent more glass to the right. Propel pedals have been reshaped for easier use and moved forward for more foot space.

CONTROLS

Short-throw levers mean fingertip control with less effort. The armrests are now mounted independently from the seat, so they’re always in the right position. The result is long productive days with less operator fatigue. The hydraulic pilot valve system is upgraded for even more efficient execution of the lever commands. In the process of making this improvement, control lever stroke movement is reduced, which also cuts operator fatigue.

A wider seatback, more legroom, and 47-percent more glass on the right side mean a safer and more productive workday. An optional air-suspension heated seat is also available.

MONITOR SYSTEM

An all-new monitor package lets you see larger gauges and more information by simply pushing a button.

The screens provide instant informational records such as engine speed, temperature, and average fuel consumption from the on-board monitoring system. There is also a convenient plug-in for downloading this same information to a PDA or laptop computer.

The enhanced multifunction monitor features easy-to-read gauges, warning lights, and icons that provide vital operating information. Your technician can easily download this data to a laptop.
From super-small compacts to monster mining machines, Hitachi makes the widest product line of excavators in the world. Hitachi excavators sold in North America are built at the huge Tsuchiura plant near Tsukuba, Japan, and in Kernersville, North Carolina. These plants feature the latest technologies and industry-leading engineers and technicians.

**TSUCHIURA WORKS**

Covering over 5.3-million square feet (490,000 m²), the Tsuchiura Works in Japan manufactures a complete range of construction equipment including hydraulic excavators, crawler cranes, and tunnel-boring machines. The facility houses a hydraulic machinery plant producing pumps, motors, and other hydraulic machines. Tsuchiura also has a parts division and various laboratories including state-of-the-industry research and development.

**KERNERSVILLE PLANT**

Deere-Hitachi is a 50-50 joint venture. Formed in 1988, the Kernersville, North Carolina-facility employs about 1,000 workers and manufactures Zaxis 200LC-3, 240LC-3, 270LC-3, and 350LC-3 Hydraulic Excavators for sale in North and South America.

**MINING LEGACY**

Behind every Zaxis we build is the mining legacy of Hitachi. Ask anybody in the mining industry and they’ll tell you Hitachi leads the field for high production, high uptime, and low operating costs.

We put that same engineering expertise into every Zaxis we build. Hitachi — the name you can trust for high productivity and excellent value, no matter what the size.
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