SUPER EX160-V

Rated Engine HP
99 hp (74 kW)
Max Power: 103 hp (76 kW)

Operating Weight
EX160LC: 33,960 lbs (15,400 kg)

Bucket Capacity
0.68 – 1.07 yd³ (0.52 – 0.82 m³)
Putting Technology To Work

The EX160 is an excellent update of a proven workhorse, the EX150. It now features the most advanced computerized horsepower and control system available: Hitachi’s exclusive Dash-5 system. This system makes the EX160 unbelievably smooth to operate and even more productive. The EX160 has more horsepower, greatly increased lift capacity, higher traction force, better swing torque and a longer, more stable undercarriage.

The EX160LC model features a Hitachi A-4BG1T turbo-charged, direct injection diesel engine that meets all EPA clean air requirements. The Dash-5 engine/hydraulic control with three power modes and four work modes offers maximum efficiency and productivity.

- **Power modes:**
  1. Normal: Standard operation.
  2. H/P: Increased engine rpm and horsepower.
  3. E: Maximum fuel efficiency in light duty applications.

- **Work modes:**
  1. General Purpose
  2. Grading
  3. Precision
  4. Attachment, which provides automatically adjusted oil flow to hydraulic attachments.

- Cab mounted on six fluid-filled, vibration dampening, shock absorbing mounts.
- Compact travel motor design; protected piping reduces opportunity of damage.

The updated work modes provide power in the order of inherent priority to do the best job for the project at hand. The Hitachi EX160 has excellent multi-function features which allow multiple jobs such as travel, swing and boom raise all at the same time without any one function stopping.

The Super EX160, as with all Hitachi excavator models, is built to maximize performance, reliability, and operator comfort through optimum design and quality components. The Isuzu engine is matched to the hydraulic pump for outstanding multiple function performance. The undercarriage, cab body and front attachment are all balanced and designed for maximum strength. All of this means that your Hitachi EX160 will work economically and productively for years and for thousands of hours at minimum operating costs.
Economical Isuzu 99 hp Engine Is Dependable, Long-Lasting

Isuzu engines are known world-wide for their outstanding performance, long-life and unbelievably low fuel consumption. This an update from the engine found in previous EX150 models. It meets or exceeds all EPA, CARB pollution and noise standards. The four cylinder, 264 cu. in. engine is rated at 99 hp (74 kW), and has a maximum torque of 260 lbf-ft (36 kgf-m).

Greatly Increased Traction Force

High-powered travel motor and high pressure system design increase traction force by 21% for better travel power and torque.

Enhanced E-P Pump Control

A sophisticated micro-computer system guided by multiple actuators is exclusively standard on the EX160. Hitachi is renowned for the smooth operation of its excavators and this model is no exception. The new Dash-5 controls provide quick, accurate response to multi-function swing-lift-bucket curl operations.

Enhanced Cooling Protection

The EX160 features a 4.9 U.S. gallon (18.4 liter) radiator coolant tank, a tightly fitting fan shroud and a high capacity fan. The radiator fins are easily cleaned, and the coolant level is easily checked from the ground during normal inspection.

Operator Comfort:

A Top Priority

Sitting in one place, all day, operating a machine productively takes concentration and dedication to doing a good job. It also means that a smart owner is going to do everything possible to make sure his operator is comfortable in the cab. The Hitachi EX160 is an excellent example of how comfortable a well-designed cab can be.

The widest cab in its class: 3 ft. 4 in. Lots of leg room, wide side door. The ergonomically-designed seat is fully adjustable with tilting armrests, tilting back, floating or solidly fixed seat, headrest tilt, and seat raise/lower.

The hand control levers can be raised or lowered to match the operator’s build, and the controls can either glide forward or back with the seat or remain fixed while the seat moves.

The work modes, power modes, air conditioning controls, and dial-type engine speed control are all located beside the operator.

AM-FM Radio

The EX160 has available air conditioning and an available “Hot and Cool” box. The large capacity unit features front and rear rotatable louvers. Automotive type controls blend hot and cold air to provide the perfect temperature.

AM-FM Radio

The cab floats on six fluid-filled elastic mounts that smooth out shocks and jolts.

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EX160: Smooth Control, Balanced Weight For Maximum Value

Work Modes For Increased Performance

The four work modes have been enhanced from prior models.

1. The General Purpose Mode is appropriate for general digging and truck loading. All circuits work together.
2. The Grading Mode provides priority to the combined operation of boom raise, stick forward and bucket adjustment while limiting control response so that the movement is smooth.
3. The Precision Mode keeps the front attachment moving precisely and slowly.
4. The Attachment Mode is designed to automatically match the oil flow requirements of selected attachments such as a hydraulic hammer. Additional piping is required (optional).

H/P and E Modes For Increased Efficiency

- The Normal mode is for normal or average applications. The engine runs at an efficient maximum speed for longest life and general economy. The hydraulic pump runs at a baseline 100%.
- The H/P mode provides the full power of the EX160 on command. This function increases engine rpm by 6% when activated, thus providing 4% more horsepower when needed – 103 hp (76 kW).
  - Engine rpm automatically increases when the arm-in function meets resistance.
  - Automatically switches back to normal rpm and 99 hp (74 kW) when resistance is overcome for fuel savings.
- The E mode provides 94% of full power while providing 15% more fuel efficiency. It is appropriate for light-duty work because it allows you to work longer before refueling.

Swing Force Increased For Optimum Slope Performance

The new swing motor and high-pressure swing system design increase swing force by 7%.

Great Machine Balance

One of the EX160's secrets for great operator acceptance is that the machine is so well balanced. Operators feel comfortable “going-to-the-max” with the EX160 to get a full bucket with every pass, to walk and turn at the same time, and to travel over rough terrain.

Premium Quality Design and Manufacture

Hitachi Construction Machinery invests over $75 million a year in research and development to build ever-better hydraulic excavators. That research shows itself over and over in the new Dash-5 EX160. It has an excellent cab that is comfortable. The undercarriage is extremely rugged, and the boom and arm are designed for years of use.

D-Section Frame

The “D” section frame is designed to resist deformation. It protects the upperstructure from damage due to lateral impacts during swing.
Longer-Life Undercarriage

Hitachi undercarriages feature premium-grade tracks with large track links fitted with struts for added durability. Pin seals prevent dirt in the bushings and reduce inner wear. The tracks feature heavy-duty track links, front idlers, upper/lower rollers and track center guard.

Remote Lube

All lube points are clustered in three central areas.

Air Cleaner Stored Inside

An air cleaner, stored inside the upperstructure cover, allows simple replacement of elements from the ground.

Large Tool Box With Grease Gun Holder

Perfectly Matched Hydraulic System

Hitachi expertly matches the engine to the hydraulic pumps and control valves for the best response and longest life possible. The pumps are designed to work specifically with the Isuzu engine—regardless of rpm or work load.
**Specifications: EX160**

### Engine
- **Model**: Isuzu A-4BG1T
- **Type**: 4-cylinder, water-cooled, direct injection
- **Displacement**: 4
- **Fuel**: Natural gas
- **Rated Horsepower (DIN 4272, net)**: 100 ps (74 kW) at 2,150 rpm (min-1)
- **Rated Engine horsepowers (SAE 2342, net)**: 99 hp (74 kW) at 2,150 rpm (min-1)
- **Maximun torque**: 260 lb-ft (35 kgf-m) at 1,600 rpm (min-1)
- **Fuel Consumption**: 264 m³ (932 L)
- **Batteries**: 12 V, 125 Ah
- **Governor**: Mechanical, speed control with stopping motor

### Hydraulic System
- **Work mode selection**: General-purpose mode / Grading mode / Precision mode / Attachment mode
- **Main pumps**: 2 variable displacement axial piston pumps
- **Maximum oil flow**: 2 x 33.5 US gpm
- **Pilot pump**: 1 gear pump
- **Maximum oil flow**: 2.1 US gpm
- **Hydraulic Motors**: Travel... 2 variable displacement axial piston motors
- **Swing**: 1 axial piston motor
- **Reinforcement Settings**: Implement: 4.380 psi (305 kgf/cm²) Swing: 4.620 psi (325 kgf/cm²) Travel: 4.380 psi (305 kgf/cm²) Pilot: 540 psi (38 kgf/cm²)
- **Hydraulic Cylinders**: High-strength piston rod and tubes. Cylinder cushion mechanisms are provided in all cylinders to absorb shock at impact when pistons reach their stroke ends.

### Undercarriage
- **Dimensions**: Oy / Y / O
- **Boom**: 4.33” (110 mm) / 3.15” (80 mm) / 3.15” (80 mm)
- **Arms**: 4.33” (110 mm) / 3.3” (85 mm) / 3.3” (85 mm)
- **Bucket**: 4.13” (105 mm) / 2.09” (75 mm)

### Controls
- **Control levers**: Pilot controls. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit.
- **Impeller levers**: 2
- **Travel levers with pedals**: 2

### Backhoe Attachments
- **Boom length**: 16’9” (5.20 m)
- **Arms available in lengths**: 6’7” (2.01 m) / 8’6” (2.58 m) / 10’6” (3.30 m)
- **Bucket is of welded steel structure. Side clearance adjustment mechanism provided on the bucket joint.**

### Weights and Ground Pressure
- **Equipped with 16’9” (5.10 m) boom, 8’6” (2.58 m) arm and 0.82 yd³ (0.63 m³) PCSA heaped bucket.**
- **Weights**: 38,000 lb (17,230 kg) / 39,000 lb (17,700 kg) / 40,000 lb (18,140 kg)
- **Ground pressure**: 7.5 psi (0.52 kgf/cm²) / 7.0 psi (0.49 kgf/cm²) / 6.6 psi (0.45 kgf/cm²)

### Traction Device
- **Maximum traction force**: 29,550 lbf (13,400 kgf)
- **Gradeability**: 35° (70%) continuous
- **Relief Valve Settings**: Pilot circuit 540 psi (38 kgf/cm²) Swing circuit 4,620 psi (325 kgf/cm²)

### Hydraulic Cylinders
- **Upper rollers**: 2
- **Lower rollers**: 7

### Hydraulic Motors
- **Main pumps**: 2 variable displacement axial piston pumps
- **Maximum oil flow**: 2 x 33.5 US gpm

### Diesel Engine
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- **Type**: 4-cylinder, water-cooled, direct injection
- **Displacement**: 4
- **Rated Horsepower (DIN 4272, net)**: 100 ps (74 kW) at 2,150 rpm (min-1)
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#### Lifting Capacities: EX160

**EX160LC**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Load point height</th>
<th>500 lb (227 kg)</th>
<th>1,000 lb (454 kg)</th>
<th>2,000 lb (907 kg)</th>
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</thead>
<tbody>
<tr>
<td>Beam 5' 9&quot; (1.75 m)</td>
<td>32.0 ft (9.75 m)</td>
<td>29.8 ft (9.10 m)</td>
<td>24.0 ft (7.32 m)</td>
<td></td>
</tr>
<tr>
<td>Arm 4&quot; (10 cm)</td>
<td>37.5 ft (11.4 m)</td>
<td>37.5 ft (11.4 m)</td>
<td>37.5 ft (11.4 m)</td>
<td></td>
</tr>
<tr>
<td>Bucket</td>
<td>32.0 ft (9.75 m)</td>
<td>32.0 ft (9.75 m)</td>
<td>30.6 ft (9.32 m)</td>
<td></td>
</tr>
<tr>
<td>Shear</td>
<td>32.0 ft (9.75 m)</td>
<td>32.0 ft (9.75 m)</td>
<td>30.6 ft (9.32 m)</td>
<td></td>
</tr>
</tbody>
</table>

**Working Ranges**

- **Beam**: 0° - 30°
- **Arm**: 0° - 30°
- **Bucket**: 0° - 30°
- **Shear**: 0° - 30°

**Dimensions**

- **A**: Distance between latches (2.00 ft (0.61 m))
- **B**: Undercarriage length (2.90 ft (0.88 m))
- **C**: Counterweight clearance (3.00 ft (0.91 m))
- **D**: Overall height of upper structure (8.10 ft (2.46 m))
- **E**: Overall width of upper structure (8.10 ft (2.46 m))
- **F**: Overall height of cab (9.20 ft (2.80 m))
- **G**: Rear-end swing radius (8.00 ft (2.44 m))
- **H**: Track gauge (6.60 ft (1.99 m))
- **I**: Track shoe width (20.00 in (500 mm))
- **J**: Undercarriage width (8.20 ft (2.50 m))
- **K**: Overall length (30.00 ft (9.14 m))
- **L**: Overall width (8.10 ft (2.46 m))
- **M**: Total arm length (39.00 ft (11.90 m))
- **N**: Arm length (10.20 ft (3.10 m))

**Notations**

1. Ratings are based on EX160 specifications.
2. Load capacity of the Super EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. Working ranges are shown for either side or 360 degrees of rotation.
4. Measured position for bucket position on the back of the bucket.
5. English measurements are rounded based on metric origins.
Lifting Capacities: EX160

**Specifications: EX160**

### Standard Equipment

- **Monitor System:**
  - Meters: Hour meter, engine coolant temperature gauge, and fuel meter.
  - Warning lamps: Alternator charge, engine oil pressure, engine overheat, air cleaner clog and minimum fuel level.
- **Lights:**
  - 2 working lights.
- **Front Attachments:**
  - Buckets: Standard and extended.
  - Tracks: Standard, extended, and all-weather.
- **Miscellaneous:**
  - Standard tool kit.
  - Lockable machine covers.
  - Lockable fuel filler cap.
  - Skid resistant tapes and handrails.

### Optional Equipment

- **Hose rupture valves.**
- **Electric fuel refilling pump.**
- **Swing motion alarm device with lamp.**
- **Additional pump.**
- **Piping kit for extra valve port.**
- **Pre-cleaner.**
- **Tropical cover.**
- **6,170 lb (2,800 kg) counterweight.**
- **12" (300 mm) reinforced triple grouser shoes.**
- **20" (500 mm) reinforced triple grouser shoes.**
- **24" (600 mm) flat shoes.**
- **30" (760 mm) triangular (APEX) shoes.**
- **One-point ripper for ripping hardpan.**
- **Skid finisher blade for skid finishing jobs.**
- **Frame cover for oranger.**
- **Scrapping up tool.**
- **Rectangular leveling blade.**
- **Trenching blade.**
- **Front glass lower guard.**
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- Hitachi excavators, mini excavators, mining shovels, cranes and forestry machines are the best you can buy.
- Our commitment to superior product support is equally outstanding.

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  - Saltillo, Mexico