Rated Engine HP
54 hp (40 kW)

Operating Weight
EX80: 14,109 lbs (6,400 kg)

Bucket Capacity
0.14 – 0.44 yd³ (0.11 – 0.34 m³)
The EX80 is available with either a straight or off-set boom and an integral dozer blade. The versatility provided by working with the off-set boom is truly mind-expanding...with the push of a foot pedal, you can work three ways around an obstacle or trench precisely next to a building. The EX80 is easily transported without permits, yet can provide impressive production figures.

**Features**

- **Nissan A-BD30** normally aspirated, direct injection diesel engine is extremely fuel-efficient and reliable. It meets all EPA clean air requirements.
- State-of-the-industry engine/hydraulic control system with two power modes and one work mode.
- Optional off-set boom can offset a maximum of 4 ft. 1 in. (1.23 m) to the left and 3 ft. 7 in. (1.08 m) to the right. The hydraulically operated system provides infinite positioning of the bucket left or right within the maximum limits.
- Cab mounted on six silicone-filled cab mounts which isolate the operator from noise and vibration.
- Deluxe suspension seat is fully adjustable for correct positioning of levers to the seat and seat to pedals.
- The Hitachi EX80 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 EX80, as with all Hitachi excavator models, is built to maximize performance, reliability, and operator comfort through optimum design and quality components. The Nissan engine is matched to the hydraulic pump for outstanding multiple function performance. The undercarriage, cabbody, and front attachment are all balanced and designed for maximum strength. All of this means that your Hitachi EX80 will work economically and productively for years and for thousands of hours at minimum operating costs.

**Putting Technology To Work**

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<table>
<thead>
<tr>
<th>Model</th>
<th>Operating Weight</th>
<th>Travel Speeds</th>
<th>Max. Lift Capacity</th>
<th>Gradeability</th>
<th>Traction Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX80</td>
<td>14,109 lbs (6,400 kg)</td>
<td>0 - 3.0 mph (0 - 4.8 km/h)</td>
<td>6,040 lbs (2,740 kg)</td>
<td>35° (70%)</td>
<td>10,400 lbf (4,700 kgf)</td>
</tr>
</tbody>
</table>

**Specifics**

- **Nissan A-BD30** normally aspirated, direct injection diesel engine is extremely fuel-efficient and reliable. It meets all EPA clean air requirements.
- State-of-the-industry engine/hydraulic control system with two power modes and one work mode.
- Optional off-set boom can offset a maximum of 4 ft. 1 in. (1.23 m) to the left and 3 ft. 7 in. (1.08 m) to the right. The hydraulically operated system provides infinite positioning of the bucket left or right within the maximum limits.
- Cab mounted on six silicone-filled cab mounts which isolate the operator from noise and vibration.
- Deluxe suspension seat is fully adjustable for correct positioning of levers to the seat and seat to pedals.
A Top Priority

The Hitachi EX80 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 raiser/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 wide operator’s view makes safe, productive operation easier to accomplish. The front window crosspiece is lower for improved downward visibility. The right side window is bigger and the overhead window is larger.

Air conditioning is standard on the EX80.

Enhanced E-P Pump Control

A sophisticated micro-computer system guided by multiple actuators is exclusively standard on the EX80. 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 EX80 features a 2.6 U.S. gallon (10 liters) cooling system with easily cleaned radiator fins and a 3.3 gallon (12.5 liters) engine oil system.

Rugged X-Frame

The tough tractor-type undercarriage and X-form center frame assure superb durability.

Operator Comfort:

Long-Life, High-Hour Durability

The Nissan A-BD30 engine is known world-wide for its dependability, easy starting characteristics, and long-life. It is normally aspirated, direct injection, with maximum torque at 1,500 rpm. Maximum horsepower is developed at 2,200 rpm. Mechanical governor. SAE rated 54 hp (41 kW) with 134 lbf-ft (18.5 kgf-m). The engine meets all EPA and CARB pollution and noise requirements.

Economical Nissan 54 hp Engine Is Dependable, Long-Lasting

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Outstanding Traction Force

The EX80 has a traction force of 10,400 lbf (4700 kgf) and can climb a maximum grade of 35 degrees.

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 Nissan engine — regardless of rpm or work load.

Round Travel Motor Covers

Round travel motor covers provide a higher resistance to deformation.

AM-FM Radio

4

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 EX80 is an excellent example of how comfortable a well-designed cab can be.

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AM-FM Radio

4
Specifications: EX80

### Engine

- **Model:** Hitachi EX80
- **Type:** 4-cylinder, water-cooled, direct injection
- **Rated flywheel horsepower:** 55 PS (41 kW) at 2,200 rpm (min-1)
- **Rated flywheel horsepower:** 55 PS (41 kW) at 2,200 rpm (min-1)

### Upperstructure

**Swing Mechanism**
- Axial piston motor with planetary reduction gear is housed in oil. Swing is single-shaft, one-way input with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swinging brake is spring- hydraulic- released disc type.

**Swing Speed**
- 14.5 min⁻¹

### Hydraulic System

Hitachi’s ETS (Electronic Total Control System) can achieve maximum job efficiency and reduce fuel consumption significantly.

- **Pilot Control (Computer- aided Engine-Pump Control) System**
  - EPC (Electronic Pump Control) System
  - ETS (Electronic Total Control System) can achieve maximum job efficiency and reduce fuel consumption significantly.

- **Auto-Idle system**
- **High-pressure, 2-speed travel system** for high traction force and travel speed

### Weights and Ground Pressure

<table>
<thead>
<tr>
<th>Operation</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without Blade</td>
<td>14,109 lb (6,400 kg)</td>
<td>4.48 psi (0.32 kgf/cm²)</td>
</tr>
<tr>
<td>With Blade</td>
<td>15,276 lb (6,930 kg)</td>
<td>4.48 psi (0.32 kgf/cm²)</td>
</tr>
</tbody>
</table>

### Bucket

- **PCSA CE**
- **Capacity**
- **With Blade**

---

**Controls**

- **Pilot controls**:
- Hitachi’s original shockless valve and quick- warm-up system are installed. The swash plate control system is available for engine and hydraulic oil. Multi- selection lever with rotary valve is optionally available for selection of control lever direction.

- **Implementation**
  - 2
  - 2

---

**Service Refil Capacities**

<table>
<thead>
<tr>
<th>Component</th>
<th>US gal</th>
<th>Liters</th>
<th>Imp gal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fuel tank</strong></td>
<td>35.7</td>
<td>135.0</td>
<td>29.7</td>
</tr>
<tr>
<td><strong>Engine coolant</strong></td>
<td>2.6</td>
<td>10.0</td>
<td>2.2</td>
</tr>
<tr>
<td><strong>Engine oil</strong></td>
<td>3.3</td>
<td>12.5</td>
<td>2.7</td>
</tr>
<tr>
<td><strong>Swing mechanism</strong></td>
<td>0.8</td>
<td>3.1</td>
<td>2.4</td>
</tr>
<tr>
<td><strong>Travel final drive device (each side)</strong></td>
<td>0.79</td>
<td>3.0</td>
<td>0.66</td>
</tr>
</tbody>
</table>

---

**Backhoe Attachments**

- **Boom and arms of all-welded, low-stress, full-box section design**
- **Boom length:** 12.2’ (3.72 m)
- **Arm available in lengths:** 5.4’ (1.62 m)
- **Bucket:** Is all-welded, high- strength steel structure. Side clearance adjustment mechanism provided on the bucket.

---

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.
Specifications: EX80

Dimensions: Standard Boom

- **Dimensions:**
  - Overall width: 7'10" (2390 mm)
  - Overall height of blade: 1'5" (425 mm)
  - Blade length: 26'6" (810 mm)

- **Specifications:**
  - Maximum lowering depth from ground: 11.4" (290 mm)
  - Maximum raising height above ground: 1'5" (425 mm)
  - Maximum blade force: SAE, PCSA 8,200 lbf (3,700 kgf)

- **Machine Dimensions:**
  - Overall width: 7'7" (2300 mm)
  - Overall height of cab: 8' (2440 mm)
  - Undercarriage length: 16' (4880 mm)

- **Counterweight Clearance:**
  - Maximum: 2' (610 mm)

- **Working Ranges:**
  - Off-ground: 20'6" (6200 mm)
  - On ground: 19'2" (5800 mm)

- **Counterweight:**
  - 1,764 (800 kg) counterweight required

 Specifications: EX80

Dimensions: Off-set Front

- **Dimensions:**
  - Overall width: 7'10" (2390 mm)
  - Overall height of blade: 1'5" (425 mm)

- **Specifications:**
  - Maximum lowering depth from ground: 11.4" (290 mm)
  - Maximum raising height above ground: 1'5" (425 mm)
  - Maximum blade force: SAE, PCSA 10,600 lbf (4,800 kgf)

- **Machine Dimensions:**
  - Overall width: 7'7" (2300 mm)
  - Overall height of cab: 8' (2440 mm)
  - Undercarriage length: 16' (4880 mm)

- **Counterweight Clearance:**
  - Maximum: 2' (610 mm)

 Working Ranges

- **Arm Length:**
  - 7'5" (2280 mm)
  - 7'7" (2310 mm)
  - 11' (3350 mm)

- **Offset Distance:**
  - 0" (0 mm)
  - 3' (915 mm)

- **Counterweight Clearance:**
  - 2' (610 mm)

- **Counterweight:**
  - 1,764 (800 kg) counterweight required

- **Working Ranges:**
  - Off-ground: 20'6" (6200 mm)
  - On ground: 19'2" (5800 mm)

- **Counterweight Clearance:**
  - Maximum: 2' (610 mm)

- **Working Ranges:**
  - Off-ground: 20'6" (6200 mm)
  - On ground: 19'2" (5800 mm)

- **Counterweight Clearance:**
  - Maximum: 2' (610 mm)
Lifting Capacities: EX80

### Specifications: EX80

#### Standard Equipment

- **E mode control**
- **25 A alternator**
- **Dry-type air filter with evacuator valve**
- **Cartridge-type engine oil filter**
- **Cartridge-type fuel filter**
- **Imperial fuel filter**
- **Radiation and oil cooler with pilot control system**
- **Grid heat exchanger**
- **Axial oil filter**
- **Superior oil filter**
- **Superior oil filter**
- **Superior oil filter**
- **Superior oil filter**
- **Superior oil filter**
- **Superior oil filter**

#### Optional Equipment

- **2 working lights**
- **LED lights**
- **Front light**
- **LED lights**
- **Front light**
- **LED lights**
- **Front light**
- **LED lights**
- **Front light**

### Notes

1. Ratings are based on SAE J1097.
2. Lifting capacity of the EX Series does not exceed 75% of the machine on the same level ground or 87% of the hydraulic capacity.
3. The load point is in a hook (not standard equipment) loaded on the back of the bucket.
4. * Indicates load limited by hydraulic capacity.
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  - Vancouver, B.C.

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  - Tierra, Japan
  - Kernersville, North Carolina
  - Langley, B.C.
  - Saltillo, Mexico