PC800LC-8
(SN 65001 and up)

NET HORSEPOWER
363 kW 487 HP @ 1800 rpm

OPERATING WEIGHT
83780–87554 kg 184,705–193,025 lb

BUCKET CAPACITY
1.70–4.50 m³ 2.25–6.0 yd³

Photo may include optional equipment.
Performance Features

- **Fast Work Equipment Speed**
  An arm quick-return circuit provides fast cycle times and high productivity

- **Large Digging Forces**
  The new Power Max system provides increased arm and bucket digging forces

- **Heavy Lift Mode** increases lifting force by 10%

- **Two-mode Setting for Boom Control**
  Operator can select powerful digging or smooth boom operation

- **Shockless Boom Control**
  Operator can reduce vibration and shock while minimizing bucket spillage

- **Swing Priority Mode** provides loading efficiency at higher swing angles

Reliability Features

- **Strengthened Boom and Arm**

- **High-pressure In-line Filtration**
  Each main pump has a high pressure in-line filter to provide an extra level of hydraulic system protection

- **Fuel Pre-filter** with water separator

- **O-ring Face Seals** provide excellent sealing performance for hydraulic hoses

- **Highly Reliable Electronic Devices**
  Exclusively designed electronic devices have passed severe testing.
  - Controllers
  - Sensors
  - Connectors
  - Heat resistant wiring

The Super Digger

- **Powerful Digging Forces**
  This optional spec with 2 arm cylinders increases arm digging force by 19% (available for the 11’10” arm only)

Maintenance Features

- **Reversible Cooling Fan**
  Hydraulically-driven fan can reverse rotation to simplify cleaning the cooler assembly

- **Centralized Engine Checkpoints**

- **Slip-resistant plates for improved foot traction during maintenance**

- **Large Handrails, Steps, and Catwalk**
  Wider step ladder provides easier access for machine servicing

KOMTRAX equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.
**Hydraulic Excavator**

**PC800LC-8**

**NET HORSEPOWER**
363 kW 487 HP @ 1800 rpm

**OPERATING WEIGHT**
83,780 – 87,554 kg
184,705 – 193,025 lb

**BUCKET CAPACITY**
1.70 – 4.50 m³
2.25 – 6.0 yd³

---

**Ecology and Economy**

- **Low Emission Engine**
  A powerful, turbocharged and air-to-air aftercooled SAA6D140E-5 engine provides 363 kW 487 HP net. This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or productivity.

- **Four-level Economy Mode Setting**
  Provides the operator additional flexibility to match performance to the application to optimize fuel efficiency

- **Low Operational Noise**
  - Electronically controlled variable speed fan drive
  - Large hybrid fan
  - Low-noise muffler

---

**Working Environment**

- **Large Comfortable Cab**
  - Low-noise cab design with viscous damper mounts
  - Pressurized cab with large-capacity air conditioner
  - High-back, heated operator seat with console-mounted armrests
  - OPG top guard Level 2 (ISO 10262) capable with optional bolt-on top guard

---

**Large TFT LCD Color Monitor**

- Easy to see and use large 7” multi-function color monitor
- Can be displayed in 12 languages for global support

TFT: Thin Film Transistor  LCD: Liquid Crystal Display

---

Photo may include optional equipment.
Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this “Komatsu Technology,” and adding customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment friendly excavators.

**Low Emission Engine**
The Komatsu SAA6D140E-5 engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

**Low Operational Noise**
Low noise levels resulting from an electronically controlled variable speed fan drive, large hybrid fan, and low-noise muffler.

**Electronically Controlled Variable Speed Fan**
The electronic control system sets the revolution speed of the cooling fan according to the coolant, hydraulic oil, and ambient temperature; effectively uses the engine output to prevent wasteful fuel consumption; and reduces noise during low-speed fan revolution.

**Four-level Economy Mode Setting**
Provides the operator with additional flexibility to match performance to the application to optimize fuel efficiency.

**Eco-gauge that Assists Energy-saving Operations**
Equipped with Eco-gauge for environment friendly energy-saving operations. By operating in the green range, CO₂ emission and fuel consumption can be reduced.
**Auto Deceleration and Auto Idling Systems**
The Auto Deceleration system reduces engine speed to lower fuel consumption and operating noise. The engine idling speed can be set at a lower speed through the monitor with the new auto idling system.

**Working Modes Selectable**
Power and Economy modes have been improved.

- **P mode** – Power or work priority mode has low fuel consumption, but fast equipment speed and maximum power.
- **E mode** – Economy or fuel saving mode further reduces fuel consumption, but maintains P-mode work equipment speed for light-duty applications.

You can select Power or Economy modes using the monitor panel.

**Two-mode Setting for Boom**
**Smooth mode** provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to **Power mode** for more effective excavating.

**Shockless Boom Control**
The PC800LC-8 boom circuit features a shockless valve (double-check slow return valve) to automatically minimize the amount of vibration present when operating the boom. Operator fatigue and bucket spillage, caused by vibration, is reduced.

---

**Large Digging Force**
With the one-touch Power Max. function, digging force is increased. (8.5 seconds of operation)

- **Maximum arm crowd force (SAE):**
  - 237 kN (24.2t) ➞ 260 kN (26.5t) **9.7% UP** (with Power Max.)
  - 260 kN (26.5t)

- **Maximum bucket digging force (SAE):**
  - 296 kN (30.2t) ➞ 324 kN (33.0t) **9.5% UP** (with Power Max.)

*Measured with the 3600 mm 11'10" arm

**Work Equipment Speed Increased**
Work equipment speed becomes faster with the arm quick return circuit. This returns a portion of oil directly to the hydraulic tank during arm dump to reduce hydraulic loss and increase speed.

**The Super Digger**
Using two arm cylinders, the arm digging force is increased by 19%, providing additional breakout in hard digging applications. The Super Digger uses a standard length front, so there is no reduction in working range.
**Strengthened Boom and Arm**

Thanks to large cross-sectional structures, thick high tensile strength steel plates, and partition walls, the boom and arm exhibit excellent durability and are highly resistant to bending and torsional stress.

**Boom Foot Hoses**

The boom foot hoses are arranged under the boom foot to reduce hose bend during operation to extend hose life.

**Metal Guard Rings**

Metal guard rings protect all the hydraulic cylinders and improve reliability.

**O-ring Face Seal**

All hydraulic hoses use O-ring seals. This provides improved sealing performance during operation.

**Frame Structure**

The revolving frame and center frame swing circle mounts are one-piece non-welded structures that transmit force directly through the thick plate without passing through any welded joints.

**Fuel Pre-Filter (with Water Separator)**

Removes water and contaminants from the fuel to improve fuel system reliability.

**High-Pressure In-line Filtration**

An in-line filter in the outlet port of each main hydraulic pump provides an extra level of hydraulic system protection, reducing failures caused by contamination.

**Sturdy Undercarriage**

The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock.

**Sturdy guards** shield the travel motors and piping from rock damage.

**Heat-Resistant Wiring**

Heat-resistant wiring is utilized for the engine electric circuit and other major component circuits.

**Circuit Breaker**

With a circuit breaker, the machine can be easily restarted after repair.

**DT-Type Connectors**

DT-type connectors seal tight and have high reliability.

**Valve**

**Piston ring**

**Wear ring**

**Rock protectors**
Low Noise Design Cab
The newly designed cab is highly rigid and has excellent sound absorption ability. With improvements in noise source reduction and the use of a low noise engine, hydraulic equipment, and air conditioner, the operator can work in quiet conditions.

Wide Newly-designed Cab
The newly designed wide spacious cab includes a high-back, heated seat with a reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational position of the armrest together with the console. Reclining the seat enables you to place it into a fully flat position with the headrest attached.

Pressurized Cab
The air conditioner, air filter and a higher internal cab air pressure (+6.0 mm Aq +0.2" Aq) minimize the amount of external dust that enters the cab.
**PC800LC-8 HYDRAULIC EXCAVATOR**

**WORKING ENVIRONMENT**

**Multi-position Controls**
The multi-position, Proportional Pressure Control (PPC) levers allow the operator to work in comfort while maintaining precise control. A doubleslide mechanism allows the seat and control levers to move together or independently, allowing the operator to position the controls for maximum productivity and comfort.

**Automatic Air Conditioner**
Allows you to easily and precisely set the cab atmosphere using the large LCD. The bi-level control function improves air flow to keep the inside of the cab comfortable throughout the year.

**General Features**

**Step Light with Timer**
Provides light for about one minute to improve visibility for the operator when exiting the machine.

**Pump/engine Room Partition**
Separates the engine room from the hydraulic compartment.

**Low Vibration with Cab Damper Mounting**
The PC800LC-8 uses viscous cab damper mounts that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator seat.

**Seat sliding amount**: 340 mm 13.4"

**Thermal and Fan Guards**
Guards are placed around high-temperature parts of the engine and fan drive.

**Slip-resistant Plates**
Durable slip-resistant plates maintain excellent foot traction.

**Horn Interconnected with Warning Light**
Provides a visual and audible notice of the excavator’s operation when activated.

**Defroster**

**OpG Level 2 top guard (optional)**
OPG top guard Level 2 (ISO 10262) capable with optional bolt-on top guard

**Seat sliding amount**: 340 mm 13.4"

**Cabin Equipment**

- **Skylight**
- **Sliding Window and Large Side Mirror**
- **Defroster**
- **Cab Frame Mounted Wiper**
- **Bottle Holder and Magazine Rack**
Large LCD Color Monitor

Multi-Lingual LCD Monitor

A large user-friendly color monitor panel enables accurate and smooth work. The screen visibility is improved by using a TFT liquid crystal display that can be easily read at various angles and lighting conditions. All switches are simple and easy to operate, while the industry-first function keys simplify operation. The monitor displays data in 12 languages to globally support operators around the world.

Indicators

<table>
<thead>
<tr>
<th>Indicators</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Auto-decelerator</td>
<td>6 Hydraulic oil temperature gauge</td>
</tr>
<tr>
<td>2 Working mode</td>
<td>7 Fuel gauge</td>
</tr>
<tr>
<td>3 Travel speed</td>
<td>8 Eco-gauge</td>
</tr>
<tr>
<td>4 Engine water temperature gauge</td>
<td></td>
</tr>
</tbody>
</table>

Basic operation switches

<table>
<thead>
<tr>
<th>Basic operation switches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Auto-decelerator</td>
<td>6 Buzzer cancel</td>
</tr>
<tr>
<td>2 Working mode selector</td>
<td>7 Wiper</td>
</tr>
<tr>
<td>3 Travel speed selector</td>
<td>8 Windshield washer</td>
</tr>
</tbody>
</table>

Mode Selection

The multi-function color monitor has Power mode (two levels), Economy mode (four levels), and Heavy Lift mode.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Power Mode</td>
<td>● Maximum production/power</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Fast cycle time</td>
</tr>
<tr>
<td>E (E0,E1,E2,E3)</td>
<td>Economy Mode</td>
<td>● Good cycle time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Good fuel economy</td>
</tr>
</tbody>
</table>

Heavy Lift Mode

Gives the operator 10% more lifting force on the boom when needed for handling rock or heavy lifting applications.

Swing Priority Mode

Allows the operator to use the same easy motion for 180° loading as for 90° loading operations. By altering the oil flow, this setting allows you to select either boom or swing as the priority for increased production.

<table>
<thead>
<tr>
<th>Selection</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>Oil flow to the swing motor is increased. 180° loading operations are most efficient.</td>
</tr>
<tr>
<td>OFF</td>
<td>Oil flow to the boom is increased. 90° loading operations are most efficient.</td>
</tr>
</tbody>
</table>

Rear-view Monitoring System (standard)

On the large LCD color monitor, the operator can access and view one standard camera that will display areas directly behind the machine. An optional 2-camera system is available.
**Centralized Engine Checkpoints**  
Engine check points are concentrated on one side of the engine to simplify daily checks. Thermal guards are placed around high-temperature parts such as the turbocharger.

**Wide Catwalk and Large Handrails**  
Easier operator cab access and maintenance checks.

**Slip-Resistant Plates**  
Provided for improved foot traction.

**Long-life Oil, Filter**  
Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

**Reversible Cooling Fan**  
The hydraulically-driven fan can reverse rotation to blow out the coolers and simplify required maintenance.

**Wide Access Steps**  
Allow access from the left hand catwalk to the top of the machine for engine and maintenance checks.

**Dust Indicator with 5-Step Indication**  
5-step indicator identifies air filter condition.

**Washable Cab Floormat**  
Cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes for runoff.

**Convenient Utility Space**  
Provides great convenience to store tools, spare parts and other supplies.
Self-Diagnostic Monitor

The PC800LC-8 features an advanced on-board diagnostics system. The Komatsu-exclusive system identifies maintenance items, reduces diagnostic times, indicates oil and filter replacement hours, and displays error codes.

Continuous Machine Monitoring
When the starting switch is turned ON, check-before-starting items and caution items appear on the LCD. If abnormalities are found, a warning lamp blinks and a warning buzzer sounds. The machine continuously runs checks to minimize the development of serious problems and allow the operator to concentrate on the work at hand.

Abnormalities Display with Code
When an abnormality occurs during operation, a user code is displayed. When an important user code is displayed, a caution lamp blinks and a warning buzzer sounds to alert the operator to take action.

Maintenance Function
When the machine exceeds the oil or filter replacement time, the maintenance monitor will display lights to inform the operator.

Trouble Data Memory Function
The monitor stores abnormality data for effective troubleshooting.
Maintenance Management
KOMTRAX monitors the health of your machines and provides critical information so that you, and your distributor, can take proactive maintenance measures and reduce downtime. KOMTRAX provides:
• Service Meter Reading (SMR)
• Cautions/Abnormality codes
• Maintenance replacement notifications

Easy and Flexible Access to Information
With KOMTRAX, information about your machines is available anytime, anywhere. KOMTRAX provides:
• A user-friendly KOMTRAX website that provides customized access to your machine information
• E-mail and text alerts
• Web dial-up service
• Monthly fleet summary reports
For more information, ask your distributor, pick up a KOMTRAX brochure, or go to www.komatsuamerica.com/komtrax.

Fleet Optimization
KOMTRAX tells you how your machines and operators are performing. KOMTRAX provides:
• Fuel consumption data and trends, by unit or fleet
• Machine fuel level
• Machine utilization
• Actual working hours/Machine idle hours
• Attachment usage hours
• Machine travel hours
• Machine load analysis
• Operating mode ratios

Location and Asset Management
KOMTRAX tells you where your machines are and can help prevent unauthorized use. KOMTRAX provides:
• GPS location/Operation maps
• Out-of-area and movement alert with location and time
• Engine, nighttime, and calendar lock

KOMTRAX is Komatsu’s remote equipment monitoring and management system. KOMTRAX gathers critical machine and operation information and provides it in a user-friendly format so that you can make well-informed decisions. KOMTRAX gives you more control of your equipment and better control of your business!

KOMTRAX comes standard on all new Komatsu excavators with free communications services for the first five years of ownership. It is a powerful tool and makes Komatsu excavators an even better purchase!
Komatsu builds the most reliable and technologically-advanced excavators in the industry. Komatsu, and your Komatsu distributor, can provide comprehensive parts and service support during the entire life-cycle of your machine.

**The Parts You Need . . . When You Need Them!**

Because downtime can be costly, Komatsu makes sure that the parts you need are ready when you need them; with the same Komatsu quality and fit as the original.

To provide superior support, your local Komatsu distributor maintains an extensive supply of genuine Komatsu parts. If the part is not in stock, our integrated distributor/OEM parts network, which consists of a Master Parts Distribution Center, located in Ripley, TN and eight regional Parts Depots, can get you any part within 24 hours. Internet parts ordering, using e-partscentral, allows quick and easy product purchases.

Komatsu Remanufactured Products — complete engines, transmissions, torque converters and even circuit boards — offer like-new performance, same-as-new warranties, at a significant cost reduction.

**Worry-Free Ownership**

At Komatsu, we work hard to help you successfully manage the complete life-cycle of your machines. Key components in achieving this goal are Komatsu Customer Support Programs (CSP’s). CSP’s can be customized to fit your business plan, schedule, and budget. They let you enjoy worry-free ownership and let you get back to the job you do best — running your business.

*Komatsu Oil & Wear Analysis (KOWA)* assists in monitoring your machine’s condition and scheduling repairs. Our new *Track Management System (TMS)* allows you to optimize the life of your undercarriage by reducing costs and extending its life.

Other CSP’s address routine service requirements. From *Planned Maintenance (PM-Pro)* to *Repair & Maintenance (R&M)* contracts, Komatsu has you covered. While Komatsu’s standard warranty covers your machine for 1 year with unlimited hours, our *Advantage Extended Coverage* will also add value to your investment and give you the peace of mind that unexpected repairs are covered.

By partnering with Komatsu and your local Komatsu distributor, you will get the most out of your Komatsu excavator; optimize production, minimize expense, maximize resale value, and enjoy worry-free ownership.
### PC800LC-8 Hydraulic Excavator

#### Specifications

**Engine**
- **Model**: Komatsu SAA6D140E-5
- **Type**: 4-cycle, water-cooled, direct injection
- **Aspiration**: Turbocharged, aftercooled, cooled EGR
- **Number of cylinders**: 6
- **Bore**: 140 mm 5.51"
- **Stroke**: 165 mm 6.50"
- **Piston displacement**: 15.24 ltr 930 in³
- **Governor**: All-speed, electronic
- **Horsepower**:
  - SAE J1995: Gross 370 kW 496 HP
  - ISO 9249 / SAE J1349: Net 363 kW 487 HP
- **Hydraulic fan at maximum speed**: Net 338 kW 454 HP
- **Rated rpm**: 1800 rpm
- **Fan drive type**: Hydraulic
- **EPA Tier 3 and EU Stage 3A emissions certified**

**Drives and Brakes**
- **Steering control**: Two levers with pedals
- **Drive method**: Fully hydrostatic
- **Travel motor**: Axial piston motor, in-shoe design
- **Reduction system**: Planetary triple reduction
- **Maximum drawbar pull**: 559 kN 57000 kgf 125,660 lb
- **Gradeability**: 70%
- **Maximum travel speed**:
  - Low: 2.6 km/h 1.7 mph
  - High: 4.2 km/h 2.6 mph
- **Service brake**: Hydraulic lock
- **Parking brake**: Oil disc brake

**Undercarriage**
- **Center frame**: H-leg
- **Track frame**: Box-section
- **Seal of track**: Sealed
- **Track adjuster**: Hydraulic
- **No. of shoes, each side**: 51
- **No. of carrier rollers, each side**: 3
- **No. of track rollers, each side**: 9

**Service Refill Capacities**
- **Fuel tank**: 980 ltr 258.9 U.S. gal
- **Radiator**: 100 ltr 26.4 U.S. gal
- **Engine**: 53 ltr 14.0 U.S. gal
- **Final drive, each side**: 20 ltr 5.3 U.S. gal
- **Swing drive**: 24.5 x 2 ltr 6.5 x 2 U.S. gal
- **Hydraulic tank**: 470 ltr 124.2 U.S. gal

**Swing System**
- **Driven method**: Two (2) hydraulic motors
- **Swing reduction**: Planetary gear
- **Swing circle lubrication**: Grease-bathed
- **Swing lock**: Oil disc brake
- **Swing torque**: 2896 kg-m 209,461 ft. lbs.

**Operating Weight** (Approximate)
- Operating weight, including 8200 mm 26'11" boom, 3600 mm 11'10" arm, SAE heaped 3.1 m³ 4.05 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and standard equipment.

<table>
<thead>
<tr>
<th>Double-Grouser Shoes</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>810 mm 32&quot;</td>
<td>84180 kg</td>
<td>0.95 kg/cm²</td>
</tr>
<tr>
<td>1010 mm 40&quot;</td>
<td>85579 kg</td>
<td>0.77 kg/cm²</td>
</tr>
<tr>
<td></td>
<td>186,565 lb</td>
<td>13.46 psi</td>
</tr>
<tr>
<td></td>
<td>188,670 lb</td>
<td>10.99 psi</td>
</tr>
</tbody>
</table>
DIMENSIONS

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Capacity</th>
<th>Width</th>
<th>Weight 11'10&quot;</th>
<th>Weight 15'1&quot;</th>
<th>Weight 18'4&quot;</th>
<th>Weight 20'6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Komatsu HP</td>
<td>1.70 m³</td>
<td>914 mm</td>
<td>2544 kg 5609 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>2.09 m³</td>
<td>1067 mm</td>
<td>2732 kg 6023 lb</td>
<td>V V W V</td>
<td>V V W V</td>
<td>V V W V</td>
</tr>
<tr>
<td>Plate Lip w/ Wear Plate</td>
<td>2.23 m³</td>
<td>1219 mm</td>
<td>2998 kg 6510 lb</td>
<td>V V X V</td>
<td>V V X V</td>
<td>V V X V</td>
</tr>
<tr>
<td>Komatsu HPS</td>
<td>1.70 m³</td>
<td>914 mm</td>
<td>2748 kg 5939 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>2.09 m³</td>
<td>1067 mm</td>
<td>2963 kg 6533 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Plate Lip w/ Wear Plate</td>
<td>2.23 m³</td>
<td>1219 mm</td>
<td>3257 kg 7100 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Komatsu HPX</td>
<td>1.70 m³</td>
<td>914 mm</td>
<td>2916 kg 6286 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Severe Duty</td>
<td>2.09 m³</td>
<td>1067 mm</td>
<td>3131 kg 6799 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Wear Plate &amp; Horiz. Strips &amp; Cast Steel</td>
<td>2.23 m³</td>
<td>1219 mm</td>
<td>3323 kg 7316 lb</td>
<td>V V V V</td>
<td>V V V V</td>
<td>V V V V</td>
</tr>
<tr>
<td>Shrouds</td>
<td>4.12 m³</td>
<td>1829 mm</td>
<td>4454 kg 9819 lb</td>
<td>X Y Z W</td>
<td>X Y Z W</td>
<td>X Y Z W</td>
</tr>
</tbody>
</table>

V – Used with densities up to 3,500 lb/yd³; W – Used with densities up to 3,000 lb/yd³; X – Used with densities up to 2,500 lb/yd³; Y – Used with densities up to 2,000 lb/yd³; Z – Not useable
# PC800LC-8 Hydraulic Excavator

## Specifications

### Working Range

![Diagram of working range](image)

### Technical Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Standard Spec</th>
<th>Super Digger</th>
<th>SE Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
<td>8200 mm</td>
<td>26'11&quot;</td>
<td>8040 mm</td>
</tr>
<tr>
<td>Arm length</td>
<td>3600 mm</td>
<td>11'10&quot;</td>
<td>4600 mm</td>
</tr>
<tr>
<td>A Max. digging height</td>
<td>11840 mm</td>
<td>38'10&quot;</td>
<td>12000 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>8145 mm</td>
<td>26'7&quot;</td>
<td>8295 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>8600 mm</td>
<td>28'3&quot;</td>
<td>9590 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>5575 mm</td>
<td>18'3&quot;</td>
<td>6575 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 6' level bottom</td>
<td>8445 mm</td>
<td>27'8&quot;</td>
<td>9455 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>13740 mm</td>
<td>45'1&quot;</td>
<td>14575 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>13460 mm</td>
<td>44'2&quot;</td>
<td>14310 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>6060 mm</td>
<td>19'11&quot;</td>
<td>6085 mm</td>
</tr>
<tr>
<td>Bucket digging force (SAE) at power max.</td>
<td>324 kN</td>
<td>33000 kgf / 72,750 lb</td>
<td>324 kN</td>
</tr>
<tr>
<td>Arm crowd force (SAE) at power max.</td>
<td>260 kN</td>
<td>233 kN</td>
<td>26300 kgf / 58,420 lb</td>
</tr>
<tr>
<td>Bucket digging force (ISO) at power max.</td>
<td>364 kN</td>
<td>364 kN</td>
<td>37200 kgf / 82,010 lb</td>
</tr>
<tr>
<td>Arm crowd force (ISO) at power max.</td>
<td>273 kN</td>
<td>242 kN</td>
<td>37200 kgf / 82,010 lb</td>
</tr>
</tbody>
</table>

**Notes:**
- All measurements are in millimeters (mm) and feet.
- Bucket digging forces are measured in kilonewtons (kN) and pounds (lb).
- Swing radius measurements are in millimeters (mm) and feet.
LIFTING CAPACITIES

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
Rating at maximum reach

Conditions:
- Arm length: 3599 mm 11'10"
- Boom length 8200 mm 26'11"
- Bucket 3.1 m³ 4.05 yd³ (SAE heaped)
- Bucket weight: 2950 kg 6,500 lb.
- Heavy Lift mode: On

HYDRAULIC EXCAVATOR
PC800LC-8

LIFTING CAPACITIES

PC800LC-8 Shoe: 810 mm 32"

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>3.0 m 10'</th>
<th>4.6 m 15'</th>
<th>6.1 m 20'</th>
<th>7.6 m 25'</th>
<th>9.1 m 30'</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m 30'</td>
<td>Cl</td>
<td>18,850</td>
<td>18,500</td>
<td>18,400</td>
<td>18,600</td>
<td>18,600</td>
<td>18,600</td>
</tr>
<tr>
<td>7.6 m 25'</td>
<td>Cs</td>
<td>12,700</td>
<td>12,700</td>
<td>8,450</td>
<td>8,450</td>
<td>8,450</td>
<td>8,450</td>
</tr>
<tr>
<td>6.1 m 20'</td>
<td>Cl</td>
<td>16,100</td>
<td>16,100</td>
<td>13,900</td>
<td>13,900</td>
<td>8,800</td>
<td>8,800</td>
</tr>
<tr>
<td>4.6 m 15'</td>
<td>Cs</td>
<td>5,550</td>
<td>5,550</td>
<td>4,1300</td>
<td>4,1300</td>
<td>3,400</td>
<td>3,400</td>
</tr>
<tr>
<td>3.0 m 10'</td>
<td>Cl</td>
<td>2,7400</td>
<td>2,7400</td>
<td>2,1250</td>
<td>2,1250</td>
<td>1,6950</td>
<td>1,6950</td>
</tr>
<tr>
<td>1.5 m 4'</td>
<td>Cl</td>
<td>2,0850</td>
<td>2,0850</td>
<td>1,6950</td>
<td>1,6950</td>
<td>1,6950</td>
<td>1,6950</td>
</tr>
<tr>
<td>0.0 m 0'</td>
<td>Cl</td>
<td>15100</td>
<td>15100</td>
<td>12,700</td>
<td>12,700</td>
<td>8,450</td>
<td>8,450</td>
</tr>
</tbody>
</table>

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

*Load is limited by hydraulic capacity rather than tipping.
LIFTING CAPACITIES

LIFTING CAPACITY

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
*: Rating at maximum reach

Conditions:
• Arm length: 4593 mm 15'1"
• Boom length: 8200 mm 26'11"
• Bucket 2.8 m³ 3.66 yd³ (SAE heaped)
• Bucket weight: 2730 kg 6,017 lb.
• Heavy Lift mode: On

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
*Load is limited by hydraulic capacity rather than tipping.

---

PC800LC-8 Shoe: 810 mm 32"

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>3.0 m 10'</th>
<th>4.6 m 15'</th>
<th>6.1 m 20'</th>
<th>7.6 m 25'</th>
<th>9.1 m 30'</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
</tr>
<tr>
<td>9.1 m 30'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.6 m 25'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 m 20'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.6 m 15'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0 m 10'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9 m 0'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 1.5 m 0'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 3.0 m 10'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 4.6 m 15'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 6.1 m 20'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

PC800LC-8 Shoe: 1010 mm 40"

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>3.0 m 10'</th>
<th>4.6 m 15'</th>
<th>6.1 m 20'</th>
<th>7.6 m 25'</th>
<th>9.1 m 30'</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
</tr>
<tr>
<td>9.1 m 30'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.6 m 25'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 m 20'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.6 m 15'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0 m 10'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.9 m 0'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 1.5 m 0'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 3.0 m 10'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 4.6 m 15'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>– 6.1 m 20'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LIFTING CAPACITY**

A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
ются: Rating at maximum reach

**Conditions:**
- Arm length: 5600 mm 18'4"
- Boom length: 8200 mm 26'11"
- Bucket 2.8 m³, 3.66 yd³ (SAE heaped)  
- Bucket weight: 2730 kg 6,017 lb.
- Heavy Lift mode: On

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armlength: 5600 mm 18'4&quot;</td>
<td>Boomlength: 8200 mm 26'11&quot;</td>
<td>Bucket 2.8 m³, 3.66 yd³ (SAE heaped)</td>
<td>Bucketweight: 2730 kg 6,017 lb.</td>
<td>HeavyLiftmode: On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PC800LC-8</th>
<th>Shoe: 810 mm 32&quot;</th>
<th>Unit: kg lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B</strong> A</td>
<td>3.0 m 10&quot;</td>
<td>4.6 m 15&quot;</td>
</tr>
<tr>
<td>Cl</td>
<td>Cs</td>
<td>Cl</td>
</tr>
<tr>
<td>9.1 m 30&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.6 m 25&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 m 20&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.6 m 15&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0 m 10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 m 4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0 m 0&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
*Load is limited by hydraulic capacity rather than tipping.
STANDARD EQUIPMENT

ENGINE AND RELATED ITEMS:
- Air cleaner, double element, dry type
- Engine, Komatsu SAA6D140E-5
- Fuel pre-filter (10 micron) with water separator
- Fuel primary filter (2 micron)
- Variable speed cooling fan, hydraulic drive, reversible

ELECTRICAL SYSTEM:
- Alternator, 90 amp, 24V
- Auto deaccelerator
- Batteries, 220 Ah, 2 x 12V
- Horn, electric
- Interconnected horn and warning light
- Power supply, 12V
- Starting motor, 11kW
- Step light with timer
- Work lights-2 boom, 2 cab top front, 1 cab bottom

UNDERCARRIAGE:
- 810 mm 32" double grouser
- 9 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Variable track gauge
- Sealed track

GUARDS AND COVERS:
- Radiator and oil cooler with net
- Engine thermal guards and fan guard
- Pump/engine room partition cover
- Revolving frame undercover
- Track frame center undercover (center)
- Travel motor guards

OPERATOR ENVIRONMENT:
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floormat, cigarette lighter and ashtray, automatic air conditioner, AM-FM radio, seat belt (retractable) 78 mm 3"
- Multi-function color monitor, full control dial, service meter, gauges (coolant temperature, hydraulic oil temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock), level check lights (coolant and engine oil level), self-diagnostic system with trouble data memory
- High-back suspension seat, heated

HYDRAULIC CONTROLS:
- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- Boom and arm holding valves (8200 mm 26'11" std. boom only)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- In-line high-pressure filters
- Heavy lift mode system
- Two control valves, 5+4 spools (boom, arm, bucket, swing, travel)
- Two variable capacity piston main pumps
- Working modes (Power & Economy w/4 settings)

DRIVE AND BRAKE SYSTEM:
- Brakes, hydraulic lock travel brakes, oil disc parking
- Hydrostatic two travel speed system with planetary final drive

OTHER STANDARD EQUIPMENT:
- Automatic swing holding brake
- Auxiliary pump drive
- Catwalk and handrails
- Corrosion resistor
- Counterweight, 13600 kg 29,975 lb
- Grease gun, electric pump w/indicator
- KOMTRAX
- Large handrails
- Lift capacity chart
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Slip-resistant plates
- Travel alarm

OPTIONAL EQUIPMENT

Arms:
- 3600 mm 11'10" std. arm assembly
- 3600 mm 11'10" Super Digger arm assembly
- 4600 mm 15'1" arm assembly
- 5600 mm 18'4" arm assembly
- 2945 mm 9'8" SE arm assembly

Booms:
- 8200 mm 26'11" std. boom assembly
- 8040 mm 26'5" Super Digger boom assembly
- 7100 mm 23'4" SE boom assembly
- Additional rear-view camera (1) RH side
- Counterweight removal device
- Full length track roller guard

OPG front guard, Level 2
OPG top guard, Level 2
Rain visor
Shoes:
- 1010 mm 40" double grouser
Service valve (removes holding valves)
Sun visor

www.KomatsuAmerica.com