PC160LC-8

HORSEPOWER
Gross: 90 kW 121 HP @ 2200 rpm
Net: 86 kW 115 HP @ 2200 rpm

OPERATING WEIGHT
16680–17120 kg 36,770–37,740 lb

BUCKET CAPACITY
0.60–0.70 m³ 0.78–0.92 yd³

Photo may include optional equipment.
**WALK-AROUND**

**Ecology and Economy Features**

- **Low Emission Engine**
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA4D107E-1 provides 86 kW (115 HP). This engine is EPA Tier 3 and EU Stage 3A emissions regulations certified, without sacrificing power or machine productivity.

- **Low Operation Noise**
  See page 4.

- **Mode Selection**
  • Economy mode improves fuel consumption.
  • Eco-gauge for energy-saving operations
  • Extended idling caution for fuel conservation
  See page 5.

**Safety Design**

• Cab dedicated to hydraulic excavator for protecting the operator in the event of a roll over accident.
• Anti-slip plates for safe work on machine
• Safety enhancement with large side-view, sidewise and rear mirrors installed.
• Rear view monitoring system for easy checking behind the machine (optional)
• OPG top guard level 2 capable with optional bolt-on top guard
  See page 7.

**Easy Maintenance**

• Long replacement interval of engine oil, engine oil filter, hydraulic oil and hydraulic filter
• Equipped with fuel pre-filter as standard (with water separator)
• Side-by-side cooling concept enables individual cooling modules to be serviced.
• Easy access to engine oil filter, fuel filter and fuel drain valve
• Fuel filter is remotely mounted to improve accessibility.
  See page 8.

**Large Comfortable Cab**

• Low-noise cab, similar to passenger car
• Low vibration with cab damper mounting
• Highly pressurized cab with air conditioner
• Operator seat and console with armrest that enables operations in the appropriate operational posture.
  See page 6.

**Large TFT LCD Monitor**

• Easy-to-see and use 7” large multi-function color monitor
• Can be displayed in 12 languages for global support.
  TFT : Thin Film Transistor
  LCD : Liquid Crystal Display
  See page 9.
Eco-gauge that Assists Energy-saving Operations
Equipped with the Eco-gauge that can be recognized at a glance on the right of the multi-function color monitor for environment-friendly energy-saving operations. Allows focus on operation in the green range with reduced CO₂ emissions and efficient fuel consumption.

Low Operation Noise
Enables a low noise operation using the low-noise engine and methods to cut noise at source.

Idling Caution
To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.

Low Emission Engine
Komatsu SAA4D107E-1 engine is EPA Tier 3 emission regulations and EU Stage 3A emission regulations certified, without sacrificing power or machine productivity.

Working Modes Selectable
Two established work modes are further improved.
P mode – Power or work priority mode has low fuel consumption, but fast equipment speed and maximum production and power are maintained.
E mode – Economy or fuel priority mode further reduces fuel consumption, but maintains the P-mode-like working equipment speed for light duty work.

You can select Power or Economy modes using a one-touch operation on the monitor panel depending on workloads.
WORKING ENVIRONMENT

Low Cab Noise
The newly-designed cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows this machine to generate a low level of noise similar to that of a passenger car.

Low Vibration with Cab Damper Mounting
PC160LC-8 uses viscous damper mounting for cab that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with high rigidity deck aids vibration reduction at operator seat.

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

Automatic Air Conditioner
Enables you to easily and precisely set cab atmosphere with the instruments on the large LCD. The bi-level control function keeps the operator’s head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year.

Pressurized Cab
Optional air conditioner, air filter and a higher internal air pressure (+6.0 mm Aq, +0.2” Aq) prevent external dust from entering the cab.

Safety Features

Cab Dedicated to Hydraulic Excavator
The cab is designed specifically for hydraulic excavators and gains reinforced strength from the pipe-structured cab framework. The cab framework provides the high durability and impact resistance with very high impact absorbency. The seat belt keeps the operator in the seat of the cab during a roll over.

Lock Lever
Locks the hydraulic pressure to prevent unintentional movement. Neutral start function allows machine to be started only in lock position.

Large Side-view, Sidewise and Rear Mirrors
Large side mirrors, sidewise and rear mirrors allow the PC160LC-8 to meet the new ISO visibility requirements.

Rear View Monitoring System (optional)
The operator can view the rear of the machine with a color monitor screen.

Anti-slip Plates
Highly durable anti-slip plates maintain superior traction performance for the long term.

Pump/engine Room Partition
Pump/engine room partition prevents oil from spraying onto the engine if a hydraulic hose should burst.

Thermal and Fan Guards
Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.
Large LCD Color Monitor

A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. Simple and easy to operate switches. Industry first function keys facilitate multi-function operations. Displays data in 12 languages to globally support operators around the world.

Mode Selection

The multi-function color monitor has Power mode, Economy mode, Lifting mode, Breaker mode and Attachment 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, Fast cycle time</td>
</tr>
<tr>
<td>E</td>
<td>Economy mode</td>
<td>Excellent fuel economy</td>
</tr>
<tr>
<td>L</td>
<td>Lifting mode</td>
<td>Hydraulic pressure is increased by 7%</td>
</tr>
<tr>
<td>B</td>
<td>Breaker operation</td>
<td>Optimum engine rpm, hydraulic flow</td>
</tr>
<tr>
<td>ATT</td>
<td>Attachment mode</td>
<td>Optimum engine rpm, hydraulic flow, 2 way</td>
</tr>
</tbody>
</table>

Lifting Mode

When the Lifting mode is selected, lifting capacity is increased 7% by raising hydraulic pressure.

EMMS

(Equipment Management Monitoring System)

Monitor Function

Controller monitors engine oil level, coolant temperature, battery charge and air clogging, etc. If controller finds any abnormality, it is displayed on the LCD.

Maintenance Function

Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

Trouble Data Memory Function

Monitor stores abnormalities for effective troubleshooting.

Side-by-side Cooling

Since radiator, aftercooler and oil cooler are arranged in parallel, it is easy to clean, remove and install them. Radiator, aftercooler, and oil cooler made of aluminum have high cooling efficiency and are easily recycled.

Easy Access to Engine Oil Filter, Fuel Filter and Fuel Drain Valve

Engine oil filter, fuel filter and fuel drain valve are remote mounted to improve accessibility.

Equipped with the Fuel Pre-filter (with Water Separator)

Removes water and contaminants in the fuel to prevent fuel problems. (With built-in priming pump)

Washable Cab Floormat

The PC160LC-8’s cab floor mat is easy to keep clean. The gently inclined surface has a flanged floor mat and drainage holes to facilitate runoff.

Sloping Track Frame

Prevents dirt and sand from accumulating and allows easy mud removal.

Gas Assisted Engine Hood Damper Cylinders

The engine hood can be easily opened and closed with the assistance of the gas assisted engine hood damper cylinders.

Long-life Oil, Filter

Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

Air Conditioner Filter

The air conditioner filter is removed and installed without the use of tools facilitating filter maintenance.

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Maintenance Function

Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

Trouble Data Memory Function

Monitor stores abnormalities for effective troubleshooting.

Side-by-side Cooling

Equipped with the Eco-drain Valve as Standard.

Prevents clothes and the ground from becoming contaminated due to oil leakage when replacing the engine oil.

Washable Cab Floormat

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The air conditioner filter is removed and installed without the use of tools facilitating filter maintenance.
**SPECIFICATIONS**

**ENGINE**
- Model: Komatsu SAA4D107E-1
- Type: Water-cooled, 4-cycle, direct injection
- Horsepower: SAE J1995 Gross 90 kW (121 HP)
- Horsepower: ISO 9249 / SAE J1349 Not 86 kW 115 HP
- Engine speed: 2100 rpm
- Fan drive method for radiator cooling: Mechanical
- Governor: All-speed control, electronic
- EPA Tier 3 and EU Stage 3A emissions certified

**DRIVES AND BRAKES**
- Steering control: Two levers with pedals
- Drive method: Hydrostatic
- Maximum drawbar pull: 158 kN (35,160 lb)
- Gradeability: 70°, 35°
- Maximum travel speed: High (Auto-Shift) 5.5 km/h 3.4 mph
- Low (Auto-Shift) 3.4 km/h 2.1 mph
- Service brake: Mechanical disc brake
- Parking brake: Mechanical disc brake

**HYDRAULICS**
- Type: HydraMind (Hydraulic Mechanical Intelligence New Design)
- System: closed-center system with load sensing valves and pressure compensated valves
- Number of selectable working modes: 4
- Main pump: Variable displacement piston type
- Pumps for: Boom, arm, bucket, swing, and travel circuits
- Supply for control circuit: Self-reducing valve
- Hydraulic motors:
  - Traiil: 2 x axial piston motor with parking brake
  - Swing: 1 x axial piston motor with swing holding brake
- Relief valve setting: Implement circuits: 37.3 MPa 540 psi
  - Travel circuit: 37.3 MPa 540 psi
  - Swing circuit: 26.4 MPa 390 psi
  - Pilot circuit: 3.2 MPa 45 psi
- Hydraulic cylinders:
  - (Number of cylinders = bore x stroke x rod diameter)
  - Boom: 2 – 110 mm x 1175 mm x 75 mm 4.3” x 46.3” x 3.0”
  - Arm: 1 – 120 mm x 1142 mm x 85 mm 4.7” x 44.9” x 3.3”
  - Bucket: 1 – 105 mm x 1027 mm x 70 mm 4.1” x 40.4” x 2.8”

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**
- Fuel tank: 280 ltr 74 U.S. gal
- Coolant: 8.5 ltr 1.2 U.S. gal
- Engine: 16.0 ltr 4.5 ltr
- Final drive, each side: 121.1 U.S. gal 32.0 U.S. gal

**UNDERCARRIAGE**
- Car frame: Box-section
- Sealed track:
- Sealed track:
- Track adjustment:
- Hydraulic Number of shoes (each side):
  - 44
- Number of carrier rollers (each side):
  - 2
- Number of track rollers (each side):
  - 7

**OPERATING WEIGHT (APPROXIMATE)**
- Net weight:
  - 11100 kg 24,470 lb
  - 11100 kg 24,470 lb

**DIMENSIONS**
- Boom:
  - 2590 mm 101.2"
  - 2610 mm 101.2"
  - 2590 mm 101.2"

**SWING SYSTEM**
- Drive method: Hydrostatic
- Swing reduction:
- Planetary gear
- Swing circuit lubrication:
- Grease-bathed Service brake:
- Hydraulic lock
- Holding brake/Swing lock:
- Mechanical disc brake
- Swing speed: 12.0 rpm

**WORKING RANGE**
- Air conditioner with defroster:
- Alternator, 35 Ampere, 24 V
- Anti-slip plates:
- Auto-decel:
- Automatic engine warm-up system:
- Batteries: 64 Ah x 2 x 12 V
- Boom holding valve:
- Cab, capacity FOG with optional bolt-on top guard:
- Counterweight:
- Dry type air cleaner, double element
- Electric horn
- Engine, Komatsu SAA4D107E-1
- Engine overheat prevention system:
- Equipment management monitoring system:
- Fan guard structure:
- Hydraulic track adjusters (each side):
- Long lubricating intervals for work equipment bushing (500 hours):
- Multi-function color monitor:
- Power maximizing system:
- PCC hydraulic control system:
- Radiator and oil cooler dustproof net:
- Rear reflector:
- Rearview mirrors (RH, LH, rear, sideside):
- Seat belt 50 mm 2.0” retractable:
- Starting motor: 4.5 kW/24 V x 1
- Suction fan:
- Track guiding guard, center section:
- Track roller: 7 track
- Track shoe: 500 mm 19.7” triple grouser:
- Travel alarm:
- Working light, 2 (boom and RH):
- Working mode selection system:

**STANDARD EQUIPMENT**
- Backhoe bucket, arm, and boom combination:
- Bucket capacity (heaped):
  - 0.66 m³ 0.79 yd³
  - 0.59 m³ 0.70 yd³
  - 0.50 m³ 0.60 yd³
  - 0.41 m³ 0.48 yd³
  - 0.33 m³ 0.39 yd³
  - 0.25 m³ 0.31 yd³
  - 0.20 m³ 0.25 yd³

- Weight:
  - 414 kg 910 lb
  - 440 kg 970 lb
  - 500 kg 1100 lb

- Number of teeth:
  - 2.5 m 8’ 2.8 m 9’

- Arm length:
  - 0.51 m 20”

- General purpose use, density up to 1.8 ton/m³ 1.52 U.S. ton/yd³
- Not usable

**OPERATING WEIGHT (APPROXIMATE)**
- Net weight:
  - 11100 kg 24,470 lb
  - 11100 kg 24,470 lb

- Gross weight:
  - 156 kN 35,160 lb
  - 156 kN 35,160 lb

- Swing radius:
  - 1100 mm 43.3"
  - 1100 mm 43.3"
  - 1100 mm 43.3"

- Max. digging reach:
  - 700 mm 27.6"
  - 17120 kg 37,740 lb

- Ground pressure:
  - 0.35 lbf/in² 2.42 psi

- Power maximizing system:
  - 11100 kg 24,470 lb
  - 11100 kg 24,470 lb

- Engine, Komatsu SAA4D107E-1
  - Power maximizing system:
  - Equipment management monitoring system:
  - Fan guard structure:
  - Hydraulic track adjusters (each side):
  - Long lubricating intervals for work equipment bushing (500 hours):
  - Multi-function color monitor:
  - Power maximizing system:
  - PCC hydraulic control system:
  - Radiator and oil cooler dustproof net:
  - Rear reflector:
  - Rearview mirrors (RH, LH, rear, sideside):
  - Seat belt 50 mm 2.0” retractable:
  - Starting motor: 4.5 kW/24 V x 1
  - Suction fan:
  - Track guiding guard, center section:
  - Track roller: 7 track
  - Track shoe: 500 mm 19.7” triple grouser:
  - Travel alarm:
  - Working light, 2 (boom and RH):
  - Working mode selection system:

- Backhoe bucket, arm, and boom combination:
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  - Multi-function color monitor:
  - Power maximizing system:
  - PCC hydraulic control system:
  - Radiator and oil cooler dustproof net:
  - Rear reflector:
  - Rearview mirrors (RH, LH, rear, sideside):
  - Seat belt 50 mm 2.0” retractable:
  - Starting motor: 4.5 kW/24 V x 1
  - Suction fan:
  - Track guiding guard, center section:
  - Track roller: 7 track
  - Track shoe: 500 mm 19.7” triple grouser:
  - Travel alarm:
  - Working light, 2 (boom and RH):
  - Working mode selection system:
**OPTIONAL EQUIPMENT**

- Alternator, 60 Ampere, 24 V
- Arms — 2900 mm 96° arm assembly
- 2610 mm 87° arm assembly
- 2250 mm 75° arm assembly
- Batteries, large capacity
- Bolt-on top guard, [Operator Protective Guards level 2 (FOG)]
- Boom, 5150 mm 16'11"
- Cab accessories—Rain visor—Sun visor
- Cab front guard—Full height guard—Half height guard
- Rear view monitoring system
- Seat, suspension
- Service valve
- Shoes, triple grouser — 600 mm 23.6"
- 700 mm 27.6"
- Track frame undercover
- Working lights — on cab — on counterweight

**SHOES**
- 600 mm 23.6"
- 700 mm 27.6"
- 800 mm 31.5"
- 900 mm 35.4"
- 1000 mm 39.4"

**LIFTING CAPACITY WITH LIFTING MODE ON MULTI-FUNCTION COLOR MONITOR**

<table>
<thead>
<tr>
<th>Arm length</th>
<th>7.5 m 24'</th>
<th>6.0 m 19'</th>
<th>4.5 m 14'</th>
<th>3.0 m 10'</th>
<th>1.5 m 5'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length 2650 mm 9° 7&quot;</td>
<td>72200 kg 16,000 lb</td>
<td>19300 kg 42,600 lb</td>
<td>10000 kg 22,000 lb</td>
<td>6000 kg 13,200 lb</td>
<td>3000 kg 6,600 lb</td>
</tr>
<tr>
<td>Arm length 2610 mm 8° 6&quot;</td>
<td>68000 kg 149,300 lb</td>
<td>18000 kg 39,600 lb</td>
<td>10000 kg 22,000 lb</td>
<td>6000 kg 13,200 lb</td>
<td>3000 kg 6,600 lb</td>
</tr>
<tr>
<td>Arm length 2590 mm 7° 5&quot;</td>
<td>64000 kg 141,400 lb</td>
<td>16800 kg 36,900 lb</td>
<td>10000 kg 22,000 lb</td>
<td>6000 kg 13,200 lb</td>
<td>3000 kg 6,600 lb</td>
</tr>
</tbody>
</table>

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*
**LIFTING CAPACITY WITH LIFTING MODE ON MULTI-FUNCTION COLOR MONITOR**

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

**Conditions:**
- 5150 mm 16'1" one-piece boom
- 0.65 m³ 0.85 yd³ SAE heaped bucket
- Shoe width: 600 mm 23.6" triple grouser

<table>
<thead>
<tr>
<th>Condition</th>
<th>7.5 m</th>
<th>6.0 m</th>
<th>4.5 m</th>
<th>3.0 m</th>
<th>1.5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arm length</strong></td>
<td>2610 mm 8'7&quot;</td>
<td>2900 mm 9'6&quot;</td>
<td>2250 mm 7'5&quot;</td>
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</tr>
<tr>
<td><strong>A MAX</strong></td>
<td>7200 kg</td>
<td>4900 kg</td>
<td>3050 kg</td>
<td>1900 kg</td>
<td>800 kg</td>
</tr>
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<td><strong>7.5 m</strong></td>
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<tr>
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<td><strong>3.0 m</strong></td>
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<tr>
<td><strong>0 m</strong></td>
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**HYDRAULIC EXCAVATOR**

PC160LC-8

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<td>4550 kg</td>
<td>3000 kg</td>
<td>1850 kg</td>
<td>1050 kg</td>
<td>450 kg</td>
</tr>
<tr>
<td><strong>0 m</strong></td>
<td>3700 kg</td>
<td>2400 kg</td>
<td>1400 kg</td>
<td>820 kg</td>
<td>300 kg</td>
</tr>
<tr>
<td><strong>-3.0 m</strong></td>
<td>3700 kg</td>
<td>2400 kg</td>
<td>1400 kg</td>
<td>820 kg</td>
<td>300 kg</td>
</tr>
<tr>
<td><strong>-4.5 m</strong></td>
<td>3000 kg</td>
<td>1900 kg</td>
<td>1100 kg</td>
<td>600 kg</td>
<td>200 kg</td>
</tr>
</tbody>
</table>

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity at 70% of tipping load.*