FLYWHEEL HORSEPOWER

Gross: 149 kW 200 HP @ 2050 rpm
Net: 140 kW 187 HP @ 2050 rpm

OPERATING WEIGHT
PC270-8: 27140–28050 kg 59,830–61,840 lb
PC270LC-8: 28040–29020 kg 61,820–63,980 lb

Photo may include optional equipment.

For a complete line up of available attachments, please contact your local Komatsu distributor.
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**OPERATING WEIGHT**

**PC270-8:** 27140 – 28050 kg
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**PC270LC-8:** 28040 – 29020 kg
61,820 – 63,980 lb

**BUCKET CAPACITY**

1.14 – 1.26 m³
1.49 – 1.65 yd³

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**WALK-AROUND**

**Ecology and Economy Features**

- **Low fuel consumption by total control of the engine, hydraulic and electronic system.**
  Reduces fuel consumption by approx. 10%.
  Compared with the PC270-7

- **Low emission engine**
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D107E-1 provides 140 kW 187 HP. This engine meets EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.
  - Economy mode improves fuel consumption.
  - Eco-gauge for energy-saving operations.
  - Extended idling caution for fuel conservation.

- **Low operation noise**
  The dynamic noise is lowered by 1 dB compared with the PC270-7, realizing a low noise operation.

- **Large Drawbar Pull**
  Provides superb steering and slope climbing performance.
  See pages 4 and 5.

**Easy Maintenance**

- **Long replacement interval of engine oil, engine oil filter, and hydraulic filter.**
- Remote mounted engine oil filter and fuel drain valve for easy access.
- Equipped with the fuel pre-filter as standard (with water separator).
- Side-by-side cooling concept enables individual cooling modules to be serviced.
- Equipped with the EMMS monitoring system.

See page 9.

**Large Comfortable Cab**

- **Low-noise cab, similar to passenger car**
- **Low vibration with cab damper mounting**
- **Highly pressurized cab with optional 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 8.

**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 added.**
- **Rear view monitoring system for easy checking behind the machine (optional)**
- **ROPS cab (ISO 12117-2)**

See page 7.

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Photo may include optional equipment.
ECOLOGY & ECONOMY FEATURES

Komatsu Technology

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

Komatsu SAA6D107E-1 meets EPA Tier 3 and EU Stage 3A emissions certified and reduced NOx emission by 29% compared with the PC270-7.

Low Operation Noise

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

Low Fuel Consumption

The newly-developed Komatsu SAA6D107E-1 [ecot3] engine enables NOx emissions to be significantly reduced with the accurate multi-staged fuel injection by the engine controller. It improves total engine durability using the high-pressure fuel injection system developed specifically for construction machinery. This excavator significantly reduces hourly fuel consumption using the highly-efficient matching techniques of the engine and hydraulic unit and also provides features that promote energy-saving operations such as the E mode and Eco-gauge.

Fuel consumption 10% reduced

Compared with the PC270-7 at P mode and 100% working efficiency. Fuel consumption varies depending on job conditions.

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.

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.

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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
PC270-8 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 armrest together with the console. Reclining the seat further enables you to place it into the fully flat state with the headrest attached.

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.

Automatic Air Conditioner (optional)
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. Defroster function keeps front glass clear.

Safety Features

ROPS Cab
The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. The ROPS cab has high shock-absorption performance, featuring excellent durability and impact strength. It also satisfies the requirements of ISO OPG top guard level 1 for falling objects. Combined with the retractable seat belt, The ROPS cab protects the operator in case of tipping over and against falling objects.

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, Rear, and Sidewise Mirrors
Enlarged left-side mirror and addition of rear and side mirror allow the PC270-8 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.

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

Pump/engine Room Partition
Pump/engine room partition prevents oil from spraying onto the engine if a hydraulic hose should burst.
Large Multi-lingual LCD 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</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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 and Fuel Drain Valve

Engine oil 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)

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.

Large-capacity Fuel Tank and Rustproof Treatment


Washable Cab Floormat

The PC270-8’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat 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 (optional)

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

Long Work Equipment Greasing Interval (optional)

High quality BMRC bushings and resin shims are optionally available for work equipment pins excluding bucket, extending greasing interval to 500 hours.
### SPECIFICATIONS

#### ENGINE
- **Model:** Komatsu SAA6D107E-1
- **Type:** Water-cooled, 4-cylinder, direct injection
- **Aspiration:** Turbocharged, aftercooled
- **Number of cylinders:** 6
- **Bore:** 110 mm (4.33 in)
- **Stroke:** 124 mm (4.88 in)
- **Piston displacement:** 6.69 ltr (408 in³)
- **Horsepower:**
  - **Model:** Komatsu SAA6D107E-1
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#### UNDERCARRIAGE
- **Overall width:** 3190 mm (10'6")
- **Track length on ground:** 3700 mm (12'2")
- **Track gauge:** 2590 mm (8'6")
- **Center frame:** X-frame
- **Track frame:** X-frame
- **Hydraulic: Number of shoes (each side):**
  - **PC270-8:** 45
  - **PC270LC-8:** 48
- **Number of track rollers (each side):**
  - **PC270-8:** 7
  - **PC270LC-8:** 8

#### COOLANT AND LUBRICANT CAPACITY (REFILLING)
- **Fuel tank:** 38 ltr (10 U.S. gal)
- **Final drive, each side:** 2.2 U.S. gal (8.5 ltr)
- **Swing drive:** 8.2 ltr
- **Hydraulic tank:** 132 ltr
- **Engine:** 6.1 U.S. gal
- **Pilot circuit:** 3.2 MPa (45 psi)
- **Implement circuits:** 28.9 MPa (425 psi)
- **Self-reducing valve:** 25,400 psi

#### WORKING RANGE
- **Max. digging depth (at power max.):**
  - **10'0" arm, SAE heaped:** 4620 mm (15'2")
  - **11'6" arm, SAE heaped:** 7035 mm (23'1")
  - **12'3" arm, SAE heaped:** 7280 mm (24'0")
- **Max. digging reach (at power max.):**
  - **10'0" arm, SAE heaped:** 9140 mm (30'0")
  - **11'6" arm, SAE heaped:** 10455 mm (34'3")
  - **12'3" arm, SAE heaped:** 10700 mm (35'0")
- **Max. digging force:**
  - **Bucket:** 14100 kgf (31,080 lb)
  - **At power max.:** 17900 kgf (39,460 lb)

#### HYDRAULICS
- **Type:** HydraulicMind (Hydraulic Mechanical Intelligence New Design)

#### DRIVES AND BRAKES
- **Steering control:** Two levers with pedals
- **Hydraulic:**
  - **Maximum drawbar pull:** 249 kN (55,000 lb)
  - **At power max.:** 356 kN (80,000 lb)
  - **Gradeability:**
    - 20%: 72%, 80°
    - 30%: 52%, 40°
  - **Maximum travel speed:**
    - Auto-Shift: 4.8 km/h (3.0 mph)
    - Gear: 11.6 km/h (7.2 mph)
- **Service brake:**
  - **Hydraulic lock:
  - **Parking brake:**

#### SWING SYSTEM
- **Travel:** 2 x axial piston motor with parking brake
- **Swing relief valve setting:** 3.5 MPa (500 psi)
- **Center frame:** X-frame
- **Seal of track:** Sealed track
- **Swing speed:** 4.0 rpm
- **Hydraulic tank:** 132 ltr
- **B** 2905 mm (9'8")

#### UNDERCARRIAGE
- **Center frame:** X-frame
- **Swing system:** Box-section
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## Lifting Capacity

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

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### PC270-L8

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<th>Arm: 3950 mm 13'1&quot;</th>
<th>Bucket: 2.29 m³ 1.6 yd³</th>
<th>Shoe: 660 mm 26&quot; triple grouser</th>
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<td><strong>B</strong></td>
<td><strong>C</strong></td>
<td><strong>Cf</strong></td>
</tr>
<tr>
<td>7.6 m 25</td>
<td><em>3490 kg</em></td>
<td>5900 kg</td>
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<td>6.1 m 20</td>
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<tr>
<td>4.6 m 20</td>
<td><em>2800 kg</em></td>
<td>4000 kg</td>
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</tr>
<tr>
<td>3.0 m 17</td>
<td><em>2500 kg</em></td>
<td>3750 kg</td>
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</tr>
<tr>
<td>1.5 m 14</td>
<td><em>2200 kg</em></td>
<td>3450 kg</td>
<td><em>2200 kg</em></td>
</tr>
<tr>
<td>0 m 11</td>
<td><em>2000 kg</em></td>
<td>3100 kg</td>
<td><em>2000 kg</em></td>
</tr>
<tr>
<td>-1.5 m 8</td>
<td><em>1800 kg</em></td>
<td>2950 kg</td>
<td><em>1800 kg</em></td>
</tr>
<tr>
<td>-3.0 m 5</td>
<td><em>1600 kg</em></td>
<td>2650 kg</td>
<td><em>1600 kg</em></td>
</tr>
<tr>
<td>-4.6 m 2</td>
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* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.