StANDARD EQUIPMENT

- Alternator, 35 Ampere, 24 V
- Anti-slip plates
- Auto-decel
- Automatic engine warm-up system
- Batteries, 110 Ah/2 x 12 V
- Boom holding valve
- Cab, CPG top guard level 2 capable with optional bolt-on top guard
- Counterweight
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-1
- Engine overheat prevention system
- Fan guard structure
- Hydraulic track adjusters (each side)
- Multi-function color monitor
- Power maximizing system
- PPC hydraulic control system
- Radiator and oil cooler dust proof net
- Rear reflector
- Rearview mirrors (RH, LH, rear, sidewise)
- Starting motor, 4.5 kW/24 V x 1
- Suction fan
- Track guiding guard, center section
- Track roller
  - PC220-8, 8 each side
  - PC220LC-8, 10 each side
- Track shoe
  - PC220-8, 600 mm 24” triple grouser
  - PC220LC-8, 700 mm 28” triple grouser
- Travel alarm
- Working light, 2 (boom and RH)
- Working mode selection system

OPTIONAL EQUIPMENT

- Additional filter system for poor-quality fuel
- Air conditioner with defroster
- Alternator, 60 ampere, 24 V
- Arms
  - 3045 mm 10’0” arm assembly
  - 2500 mm 8’2” arm assembly
  - 2000 mm 6’7” arm assembly
- Batteries, large capacity
- Bolt-on top guard, (Operator Protective Guards level 2)
- Boom, 5850 mm 19’2”
- Cab accessories
  - Rain visor
  - Sun visor
- Cab front guard
  - Full height guard
  - Half height guard
- Heater with defroster
- Long lubricating intervals for work equipment bushing (500 hours)
- Multi-function color monitor
- Power maximizing system
- PPC hydraulic control system
- Radiator and oil cooler dust proof net
- Rear view monitoring system
- Seat belt, retractable
- Seat, suspension
- Service valve
- Shoes, triple grouser
  - PC220-8: 700 mm 28”, 800 mm 31.5”
  - PC220LC-8: 600 mm 24”, 800 mm 31.5”, 900 mm 35.5”
- Track frame undercover
- Track roller guards (full length)
- Track shoe
  - PC220-8: 700 mm 28”, 800 mm 31.5”, 900 mm 35.5”
  - PC220LC-8: 600 mm 24”, 800 mm 31.5”, 900 mm 35.5”
- Travel alarm
- Working light, 1 (counterweight)

SPECIAL PURPOSE BUCKET

- Ditch cleaning bucket
  - Capacity
    - SAE heaped 0.80 m³ 1.05 yd³
    - CECE heaped 0.76 m³ 0.93 yd³
    - Width 1800 mm 70.9”
- Slope finishing bucket for scraping slopes at banks
  - Capacity
    - SAE heaped 0.4 m³ 0.52 yd³
    - CECE heaped 0.35 m³ 0.46 yd³
    - Width 2000 mm 78.7”
- Trapezoidal bucket is ideal for digging ditches and for drainage works
  - Capacity
    - SAE heaped 0.7 m³ 0.92 yd³
    - CECE heaped 0.66 m³ 0.81 yd³
- Ripper bucket for hard and rocky ground
  - Capacity
    - SAE heaped 0.62 m³ 0.81 yd³
    - CECE heaped 0.56 m³ 0.73 yd³
    - Width 990 mm 39.0”
- Single-shank ripper and three-shank ripper are recommended for rock digging and crushing, hard soil digging, pavement removal works, etc.
HORSEPOWER
Gross: 134 kW 179 HP @ 2000 rpm
Net: 125 kW 168 HP @ 2000 rpm

OPERATING WEIGHT
PC220-8: 22900 – 23420 kg 50,490 – 51,630 lb
PC220LC-8: 24050 – 24610 kg 53,020 – 54,260 lb

BUCKET CAPACITY
0.72 – 1.26 m³ 0.94 – 1.65 yd³

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 PC220-7)

- **Low emission engine**
  A powerful, turbocharged and air-to-air after-cooled Komatsu SAA6D107E-1 provides 125 kW 168 HP. This engine meets EPA Tier 3 and EU Stage 3A emission regulations, 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 2 dB compared with the PC220-7, realizing a low noise operation.
  See page 4 and 5.

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

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.

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 and fuel drain valve for fuel conservation**
- **Side-by-side cooling concept enables individual cooling modules to be serviced.**
- **Equipped with the EMMS monitoring system**
  See page 9.

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)**
- **OPG top guard level 2 capable with optional bolt-on top guard**
  See page 7.

See page 8.
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.

ECOLOGY & ECONOMY FEATURES

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 PC220-7 at P mode and 100% working efficiency. Fuel consumption varies depending on job conditions.

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.

Dynamic noise 2 dB reduced (Compared with the PC220-7)

Reduced fan speed
Large capacity radiator
Electronically controlled common rail type engine
• Multi-staged fuel injection
• Highly rigid cylinder block

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 SAA6D107E-1 meets EPA Tier 3 and EU Stage 3A emission regulations and reduced NOX emission by 29% compared with the PC220-7.

Low Operation Noise

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

Dynamic noise 2 dB reduced (Compared with the PC220-7)

Reduced fan speed
Large capacity radiator
Electronically controlled common rail type engine
• Multi-staged fuel injection
• Highly rigid cylinder block

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 SAA6D107E-1 meets EPA Tier 3 and EU Stage 3A emission regulations and reduced NOX emission by 29% compared with the PC220-7.

Low Operation Noise

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

Dynamic noise 2 dB reduced (Compared with the PC220-7)

Reduced fan speed
Large capacity radiator
Electronically controlled common rail type engine
• Multi-staged fuel injection
• Highly rigid cylinder block

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 SAA6D107E-1 meets EPA Tier 3 and EU Stage 3A emission regulations and reduced NOX emission by 29% compared with the PC220-7.

Low Operation Noise

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

Dynamic noise 2 dB reduced (Compared with the PC220-7)

Reduced fan speed
Large capacity radiator
Electronically controlled common rail type engine
• Multi-staged fuel injection
• Highly rigid cylinder block

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 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
PC220-8 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 airflow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps front glass clear.

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, Rear, andSidewise Mirrors
Enlarged left-side mirror and addition of rear and side mirror allow the PC220-8 to meet the new ISO visibility requirements.

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.

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

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.

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)

Washable Cab Floormat
The PC220-8’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

Large-capacity Fuel Tank and Rustproof Treatment

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.
<table>
<thead>
<tr>
<th>Condition</th>
<th>Load (kg)</th>
<th>Reach (m)</th>
<th>Bucket Hook Height (mm)</th>
<th>Lifting Capacity (kg)</th>
<th>Rating Over Front (kg)</th>
<th>Rating Over Side (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*4950 kg</td>
<td>8.0</td>
<td>6.0</td>
<td>3550</td>
<td>2350</td>
<td>4750</td>
<td>3200</td>
</tr>
<tr>
<td>4.6</td>
<td>7.60</td>
<td>5.60</td>
<td>3500</td>
<td>6500</td>
<td>7500</td>
<td>4000</td>
</tr>
<tr>
<td>3.0</td>
<td>6.60</td>
<td>4.60</td>
<td>3350</td>
<td>5500</td>
<td>6900</td>
<td>3600</td>
</tr>
<tr>
<td>1.5</td>
<td>5.50</td>
<td>3.50</td>
<td>3200</td>
<td>5300</td>
<td>6850</td>
<td>3400</td>
</tr>
<tr>
<td>0.0</td>
<td>5.30</td>
<td>2.50</td>
<td>2150</td>
<td>4250</td>
<td>5700</td>
<td>2950</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 70% of tipping load.