HYDRAULIC EXCAVATOR

**HORSEPOWER**

Gross: 116 kW 155 HP @ 2000 rpm
Net: 110 kW 148 HP @ 2000 rpm

**OPERATING WEIGHT**

PC228US-8: 21900–22530 kg 48,280–49,670 lb
PC228USLC-8: 22830–23380 kg 50,330–51,540 lb

**FLYWHEEL HORSEPOWER**

Gross: 116 kW 155 HP @ 2000 rpm
Net: 110 kW 148 HP @ 2000 rpm

**OPERATING WEIGHT**

PC228US-8: 21900–22530 kg 48,280–49,670 lb
PC228USLC-8: 22830–23380 kg 50,330–51,540 lb
Komatsu’s PC228US-8 Series Hydraulic Excavators have a short tail swing profile, designed specifically for work in confined areas. By reducing tail swing, the PC228US-8 can work in areas where conventional profile excavators would pose a safety risk.

Ecology and Economy Features
- **Low Emission Engine**
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D107E-1 provides 110 kW 148 HP. This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.
- **Economy Mode improves Fuel Consumption**
- **Low Operation Noise**
  The reduced dynamic noise provides low noise operation.

See page 4.

Operation Features
- **Small Tail Swing**
  - Excellent operation in tight quarters with small tail swing radius design
  - Round profile provides short protrusion of front and rear portion of the upper structure.
  - Occupies small range for operation on narrow roads.
  See pages 6 and 7.
- **Wide Working Ranges**
  Job sites that require a long upper reach, such as demolition and slope cutting also benefit from the wide digging and dumping ranges of the PC228US-8.
  See page 7.

Productivity Features
- **Fuel-saving Technology**
  PC228US-8 introduces new engine and hydraulic pump control technology.
- **High Stability**
  The PC228US-8 offers exceptional lifting capacity and high stability with a large counterweight.
- **Mode Selection**
  Five working modes are designed to match engine speed, pump delivery and system pressure to the application.
  See page 5.

Upper Structure Features
- Slip resistant surfaces for improved foot traction
- Rear view monitoring system (optional)
  See page 9.

Large Comfortable Cab
- Low noise cab design with viscous cab mounting
- Sliding convex door allows easy entrance in confined areas.
- Large cab improves working space.
  See page 8.

Easy Maintenance
- Long replacement interval of hydraulic oil 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 Equipment Management Monitoring System (EMMS)
  See pages 10 and 11.

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BUCKET CAPACITY
- 0.50 – 1.00 m³
- 0.65 – 1.31 yd³

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

Photo may include optional equipment.
Komatsu Technology

Komatsu develops and produces all major components in house such as engines, electronics and hydraulic components. Combining “Komatsu Technology”, and 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 Fuel Consumption

The newly-developed Komatsu SAA6D107E-1 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.

Low Emission Engine

Komatsu SAA6D107E-1 engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

Low Operation Noise

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

Electronically controlled common rail type engine

- Multi-staged injection
- Highly-rigid cylinder block

Low noise design

- Optimal arrangement of sound absorbing materials
- Partition between the cab and engine room
- Airight valve room

Fuel-saving Technology

New technology of Engine and Pump control

PC228US-8 introduces new technology of Engine and Hydraulic Pump control, providing further fuel savings with sufficient oil flow at lower Engine speed.

Large Digging Force

The machine has a digging force equal to that of PC200-8. Furthermore, the operator can increase the power by 8% using single-touch power increase function when requiring an extra power.

High Stability

The PC228US-8 offers exceptional lifting capacity and high stability with a large cast iron counterweight.

Working Modes Selectable

The PC228US-8 excavator is equipped with five working modes (P, E, L, B and ATT mode). Each mode is designed to match engine speed and pump output to the application. This provides the flexibility to match equipment performance to the job at hand.

Working Mode

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Eco-gauge that Assists Energy-saving Operations

The Eco-gauge on the right side of the multi-function color monitor provides environment-friendly energy-saving operation. Focus on operation in the green range allows reduction of CO2 emissions and efficient fuel consumption.

Idling Caution

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

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Idling Caution

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Safe Operation with Small Tail Swing Even in Confined Areas

**Short Implement Swing Radius:**
2310 mm 7'7"—Boom raising angle of the PC228US-8 is larger than the PC200-8, while front implement protrusion is reduced.

**3990 mm 13'1"**
Minimum implement swing radius 2310 mm 7'7"

**Tail swing radius 1680 mm 5'6"**

**Wide Working Ranges**
Wide angle of PC228US-8 boom operation enhances overall working performance.
Job sites that require a long upper reach, such as demolition and slope cutting, also benefit from the wide digging and dumping ranges of the PC228US-8.

**Round Profile of both Front and Rear Portion of the Upper Structure**
Komatsu hydraulic excavators with short tail swing radius design adopt the round profile for both left and right corners of the front portion of the upper structure as well as its rear portion that features less protrusion from the track at swing. The round profile design contributes to the prevention of contact accident at swing and allows the machine to work in tight quarters or job sites where there are some obstacles.

**Roadwork**
When performing roadwork, protrusion of the machine into the unoccupied lane is kept minimal since the rear portion of the upper structure protrudes slightly from the track at swing. This allows a dump truck to be positioned closer to the track of the machine. The operator is able to load materials efficiently onto the front of the dump body at ease since ample dumping reach is assured for the loading. Large working space is not required for the machine.

**Logging and forest roadwork**
Since the protrusion of the rear portion of the upper structure is kept minimal, there is less possibility of the counterweight hitting against a tree or a slope, allowing the operator to operate the machine at ease. Furthermore, large digging height facilitates slope finishing work. Large drawbar pull assures smooth and powerful traveling even on rough terrain.

**Demolition**
The machine needs less working space and can perform efficient demolition work since it has large and ample digging height.
WORKING ENVIRONMENT

PC228US-8 cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

Multi-position Controls
The multi-position, PPC (pressure proportional control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and controllers to move together or independently, allowing the operator to position the seat and controllers for maximum productivity and comfort.

Low Cab Noise
The cab is highly rigid and has excellent sound absorption. Improvements in noise source reduction combined with the use of a low noise engine, hydraulic equipment, and air conditioner allows the operator to work in a quiet environment.

Comfortable Ride with Viscous Cab Mounts
Viscous mounts are used for the cab mounting system. The cab mount system absorbs shocks and aids vibration reduction to provide a comfortable ride.

Pressurized Cab
Auto air conditioner, air filter and a higher internal air pressure prevent external dust from entering the cab.

Automatic Air Conditioner
The automatic air conditioner uses a bi-level control function to keep 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 cab glass clear.

Sliding Convex Door
The sliding convex door provides easy entrance in confined areas.

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.

Emergency Escape Hammer
The cab is equipped with an emergency escape hammer for breaking the rear window glass in case of an emergency.

Travel Alarm
An alarm is installed as standard equipment to give other workers a warning when the machine travels in forward or reverse.

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

Slip-resistant Plates
Highly durable slip resistant plates maintain superior foot traction performance.

Lock Lever
When lock lever is placed in lock position all hydraulic controls (travel, swing, boom, arm and bucket) are inoperable.

Retractable Seat Belt (optional)
Easy-to-use retractable seat belt is employed.

Tempered and Tinted Glass
The glass features high strength and blocks ultraviolet rays.

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

Wide Visibility
The right side window pillar has been removed and the rear pillar reshaped to provide improved visibility.

Skylight
Skylight with window can be opened for overhead visibility.
Easy Maintenance

Komatsu designed the PC228US-8 to have easy service access. By doing so, routine maintenance and servicing are less likely to be skipped, which can reduce costly downtime later on. Here are some of the many service features found on the PC228US-8.

Optimum Maintenance Layout
Through the left and right side service doors, it is possible to access the major maintenance points from ground level. Furthermore, the fuel drain valve, engine oil filter, swing machinery oil filler, and PTO oil filler are remote mounted, facilitating easy maintenance.

Washable Floor
The PC228US-8’s floor is easy to keep clean. The gently inclined surface has a flanged floor mat and drainage holes to facilitate run off.

Side-by-side Cooling
The oil cooler, aftercooler and radiator are installed side by side. As a result, it is very easy to clean the radiator, etc. In addition, the operator can remove and install the aftercooler, radiator and oil cooler in a short time period.

Maintenance Costs Reduced

Eco-white Filter Element
High performance filters are used in the hydraulic circuit and engine. Longer hydraulic oil, hydraulic oil filter, engine oil and engine oil filter element replacement intervals significantly reduce maintenance costs.

Large TFT LCD 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. The switches are simple and easy to operate. Industry first function keys facilitate multi-function operations. Displays data in 12 languages to globally support operators around the world.

EMMS (Equipment Management Monitoring System)

Monitor function
Controller monitors engine oil level, coolant temperature and battery charge, 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.

High Efficiency Fuel Filter
Fuel system reliability is even better with high efficiency fuel filter.
## Specifications

### Engine
- **Model:** Komatsu SAA6D107E-1
- **Type:** Water-cooled, 4-cycle
- **Type:** Turbocharged, aftercooler
- **Rated rpm:** 2100 rpm
- **Fuel system:** Direct injection
- **Governor:** Electronic

### Swing System
- **Swing reduction:** Planetary gear
- **Swing speed:** 11.0 rpm
- **Swing lock:** Mechanical-disc brake

### Drives and Brakes
- **Steering control:** Two levers with pedals
- **Drive method:** Fully hydrostatic
- **Swing circuit:** Full-flow

### Undercarriage
- **Number of shoes:** 49 each side (PC228USLC-8)
- **Number of carrier rollers:** 2 each side
- **Number of track rollers:** 9 each side (PC228USLC-8)

### Hydraulic systems
- **Type:** HydraulicMind (Hydraulic Intelligence New Design) system, Closed-center system with load-sensing valve and pressure-compensated valve
- **Main pump:** Variable capacity piston type
- **Pumps for:** Boom, arm, bucket, swing, and travel circuits
- **Swing drive:** 1 x axial piston motor with swing holding brake

### Coolant and Lubricant Capacity (Refilling)
- **Fuel tank:** 320 ltr
- **Radiator:** 210 ltr
- **Final drive:** 5.2 ltr
- **Hydraulic tank:** 126.0 ltr

### Operating Weight (Approximate)
- **Operating weight including 5700 mm 18’’ boom:** 1500 kg

### Dimensions
- **Boom Length:** 5700 mm 18’’
- **Arm Length:** 2925 mm 9’’
- **Arm:** 2925 mm 9’’
- **Overhead weight:** 2925 mm 9’’
- **Length on ground (boom):** 2925 mm 9’’
- **Width:** 2925 mm 9’’
- **Height:** 2925 mm 9’’
- **Swing range:** 2400 mm 7’’
- **Swing angle:** 180°
- **Swing drive:** 1 x axial piston motor with swing holding brake
- **Swing reduction:** Planetary gear
- **Swing speed:** 11.0 rpm
- **Swing lock:** Mechanical-disc brake

### Working Range
- **Bucket capacity (heaped):**
  - **0.80 m³:** 1155 mm x 1460 mm 53.9” x 57.7”
  - **1.00 m³:** 1155 mm x 1460 mm 53.9” x 57.7”
- **Width:**
  - **900 mm:** 2925 mm 9’’
  - **1120 mm:** 2925 mm 9’’
- **Weight:**
  - **2925 mm 9’’:** 1400 kg
- **Arm Length:** 2925 mm 9’’

### Backhoe Bucket and Arm Combination
- **Bucket Capacity (heaped):**
  - **0.80 m³:** 1400 kg
  - **1.00 m³:** 1400 kg
- **Width:**
  - **900 mm:** 2925 mm 9’’
  - **1120 mm:** 2925 mm 9’’
- **Weight:**
  - **2925 mm 9’’:** 1400 kg
- **Number of Teeth:**
  - **2925 mm 9’’:** 1400 kg
- **Arm Length:** 2925 mm 9’’
### Conditions:

- **EMMS monitoring system**
- **Auto air conditioner**
- **Auto deceleration**
- **Automatic de-airation system for fuel line**
- **Automatic engine warm-up system**
- **Alternator, 35 Ampere, 24 V**
- **Batteries, 110 Ah x 2 x 12 V**
- **Boom holding valve**
- **Cab which includes: antenna, AM/FM radio, floor mat, intermittent front wind-shield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield, sliding door window, sliding seat**
- **Cooling fan, mixed flow with fan guard**
- **Countertop, 6500 kg x 13,300 lb**
- **Power maximizing system**
- **PPC hydraulic control system**
- **Rearview mirrors, RH, LH, rear, sidewise**
- **Auto deceleration**
- **Travel alarm**
- **Working mode selection system**

### Lift Capacity with Lifting Mode

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<th><strong>B</strong>: Bucket hook height</th>
<th><strong>C</strong>: Lifting capacity</th>
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<td>15</td>
<td>2820 kg</td>
<td>6,200 lbs</td>
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<tr>
<td>4.5 m</td>
<td>14</td>
<td>2420 kg</td>
<td>5,600 lbs</td>
<td></td>
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<td>3.0 m</td>
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<td>0 m</td>
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<td>1020 kg</td>
<td>2,300 lbs</td>
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### Optional Equipment

- **12V power supply**
- **Alternator, 60A**
- **Arm, 2925 mm / 9’7”**
- **Arm holding valve**
- **Hydraulic system**
- **Boom, 5700 mm / 18”**
- **Cab accessories**
- **Seat belt, retractable**

### Standard Equipment

- **Air cleaner, double element**
- **Auto dust evacuator**
- **Engine, Komatsu SAA6D107E-1**
- **Engine overheat prevention system**
- **Hydraulic track adjusters (each side)**
- **Multi-function color monitor**
- **Lights, 3 (boom and cab)**
- **Power maximizing system**
- **PPC hydraulic control system**
- **Pump/engine partition cover**
- **Rear mirror, RH, LH, rear, sidewise**
- **ROPS cab (ISO 12117-2)**
- **Suction fan**
- **Swing holding brake**

### Track guiding guard, center section

- **PC228US-8: 600 mm 24” triple grouser**
- **PC228USLC-8: 700 mm 28” triple grouser**

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