KOMATSU®

**PC450-8**

**PC450LC-8**

**STANDARD EQUIPMENT**
- Alternator, 50 Ampere, 24V
- Anti-slip plates
- Auto decel
- Automatic engine warm-up system
- Batteries, 110 Ah x 12V
- Boom holding valve
- Cab, capable OPG (OPG) with optional bolt-on top guard
- Corrosion resistor
- Counterweight, 9220kg
- Dry type air cleaner, double element
- Engine, Komatsu SAA6D125E-5
- Engine overheat prevention system
- Fan guard structure
- Fuel pre-filter (with water separator)
- Hydraulic track adjusters (each side)
- Long lubricating intervals for implement bushings
- Multi-function color monitor
- Power maximizing system
- PPC hydraulic control system
- Radiator & oil cooler dust proof net
- Rear reflector
- Rear view mirror (RH, LH)
- Seat belt, retractable
- Track roller guards (full length)
- Track roller
- Track shoe
- Two settings for boom
- Working light, 2 (boom and RH)
- Working mode selection system

**OPTIONAL EQUIPMENT**
- Air conditioner with defroster, hot & cool box
- Alternator, 60 amperes, 24 V
- Arm, 3380 mm 11’1” arm assembly
- Batteries, 140 Ah x 12 V
- Bolt-on top guard, (Operator Protective Guards level 2 (OPG))
- Boom, 7060 mm 23’2”
- Cab accessories—Rain visor
—Sun visor
- Cab front guard—Full height guard
—Half height guard
- Heater with defroster
- Rear view mirror (rear and sideways)
- Rear view monitoring system
- Seats, suspension
- Seats, suspension with heater
- Shoes, triple grouser shoes—PC450-8
—PC450LC-8
—700 mm 28’’
—700 mm 28’’
- Track frame undercover
- Variable track gauge
- Working lights (2 on cab)

**SPECIAL PURPOSE BUCKET**
- Ripper bucket for hard and rock ground—Capacity
  - SAE heaped 1.1 m³ 1.44 yd³
  - CECE heaped 1.0 m³ 1.31 yd³
  - Width 1250 mm 49.2”
- Single-shank ripper is recommended for rock-digging and crushing, hard soil digging, pavement removal works, etc.

**HYDRAULIC EXCAVATOR**

**HORSEPOWER**
- Gross: 270 kW 362 HP @ 1900 rpm
- Net: 257 kW 345 HP @ 1900 rpm

**OPERATING WEIGHT**
- PC450-8: 43320–43740 kg 95,500–96,430 lb
- PC450LC-8: 44320–44770 kg 97,710–98,700 lb

**Additional Information**
- Photo may include optional equipment.
- www.Komatsu.com
- Printed in Japan 200807 IP.As(10)
- Materials and specifications are subject to change without notice.
- Komatsu is a trademark of Komatsu Ltd., Japan.
**Productivity Features**
- **High Production and Low Fuel Consumption**
  High power, working performance and fuel efficiency improve production and fuel costs.
- **Excellent Machine Stability**
  Large counterweight offers superior machine stability and balance.
- **Large Digging Force**
  Pressing the Power Max function button temporarily increases the digging force 7%.
- **Two-mode Setting for Boom**
  Switch selection allows either powerful digging or smooth boom operation. See page 5.

**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 radiator and oil cooler configuration enables independent removal and installation of those two components.
- Equipped with the EMMS monitoring system.
- Easy access to engine oil filter and fuel drain valve
- Large fuel tank capacity
- High pressure in-line filter See page 9.

**Ecology and Economy Features**
- Low emission engine
  A powerful turbocharged and air to air aftercooled Komatsu SAA6D125E-5 engine provides 257 kW 345 HP. This engine meets EPA Tier 3 and EU Stage 3A emission regulations, without sacrificing power or machine productivity.
- Economy mode saves fuel consumption.
- Low operation noise
  See pages 4 and 5.

**Large Comfortable Cab**
- Low-noise cab
- 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.

**Variable Track Gauge (optional)**
- Greatly increases lateral stability
- Compliant with transportation regulations
  See page 5.

**Horsepower**
- Gross: 270 kW 362 HP @ 1900 rpm
- Net: 257 kW 345 HP @ 1900 rpm

**Operating Weight**
- PC450-8: 43320 – 43740 kg 95,500 – 96,430 lb
- PC450LC-8: 44320 – 44770 kg 97,710 – 98,700 lb

**Bucket Capacity**
- 1.90 – 2.10 m³ 2.49 – 2.75 yd³

**Large TFFT 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 machine of a rolls over accident.
- Anti-slip plates for safe work on machine
- Rear view monitoring system for easy checking behind the machine (optional)
  See page 7.
Environment-friendly Clean Engine

The PC450-8 gets its exceptional power and work capacity from a Komatsu SAA6D125E-5 engine. Output is 257 kW (345 HP), providing increased hydraulic power and improved fuel efficiency. Komatsu SAA6D125E-5 engine meets EPA Tier 3 and EU Stage 2B emission standards. A High Pressure Common Rail (HPCR) system and electronically controlled cooled EGR system contribute to fuel efficiency and reduced emissions.

Low Operation Noise

Enables a low noise operation using the low-noise engine and methods to cut noise at source. Ambient noise meets the EU Stage 2 noise regulation.

Excellent Machine Stability

Large counterweight offers superior machine stability and balance.

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.

Idling Caution

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

Large Digging Force

With the one-touch Power Max. function, digging force has been further increased. (8.5 seconds of operation)

- Maximum arm crowd force (ISO): 216 kN (22.2t) → 233 kN (23.8t) 7% UP
- Maximum bucket digging force (ISO): 259 kN (26.4t) → 278 kN (28.3t) 7% UP

*Measured with Power Max function, 3380 mm “11’1” arm and ISO rating

Variable Track Gauge (optional)

- Lateral stability is significantly improved when operating with the fixed gauge version.
- With trackframes retracted, overall width complies with many local transportation regulations.

Smooth Loading Operation

Two return hoses improve hydraulic performance. In the arm out function, a portion of the oil is returned directly to the tank providing smooth operation.

Two-mode Setting for Boom

Smooth mode provides easy operation for gathering blasted rock or scraping down operation. When maximum digging force is needed, switch to Power mode for more effective excavating.

Smooth mode

Two return hoses improve hydraulic performance. In the arm out function, a portion of the oil is returned directly to the tank providing smooth operation.

Power mode

Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.
Thermal and Fan Guards
Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

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.

Low Vibration with Cab Damper Mounting
PC450-8 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 (+0.0 mm Aq +0.35” 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.

Low Cab Noise
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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.

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

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

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

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Large Multi LCD Color Monitor

Large-languag 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. Function keys facilitate multi-function operation. 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.

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.

Easy Maintenance

Easy Access to Engine Oil Filter and Fuel Drain Valve
Engine oil dipstick and fill, and fuel filter are mounted on same side to improve accessibility. Fuel drain valve are remotely mounted to improve accessibility.

Equipped with Fuel Pre-filter (with Water Separator)
Removes water and contaminants in the fuel to prevent fuel problems.

Large Capacity Air Cleaner
Large capacity air cleaner is comparable to that of larger machines. The larger air cleaner can extend air cleaner life during long-term operation and prevents early clogging and resulting power decrease. Reliability is improved by a new seal design.

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

Engine oil & Engine oil filter every 500 hours
Hydraulic oil every 5000 hours
Hydraulic oil filter every 1000 hours

Long Work Equipment Greasing Interval
High quality BMRC bushings and resin shims are optionally available for work equipment pins excluding bucket, extending greasing interval to 500 hours.

Large Fuel Tank Capacity
Large fuel tank capacity extends operating hours before refueling. Fuel tank is treated for rust prevention and improved corrosion resistance.

Easy Radiator Cleaning
Since radiator and oil cooler are arranged side-by-side, it is easy to clean, remove and install them.

High Pressure In-line Filter
In-line filters are provided at outlet port (pressure side) of each pump to protect hydraulic system contamination.

Photo may include optional equipment.
### PC450-8 Hydraulic Excavator

The PC450-8 is a specially designed for heavy-duty applications. The PC450-8 has strengthened work equipment and reinforced body parts for use in severe job sites such as quarry and gravel gathering, etc.

<table>
<thead>
<tr>
<th>UNDERCARRIAGE</th>
<th>HYDRAULICS</th>
<th>SWING SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frame: X-frame</td>
<td>Hydraulic motors:</td>
<td>Drive method: Hydrostatic</td>
</tr>
<tr>
<td>Track frame: Box-section</td>
<td></td>
<td>Swing reduction: Planetary gear</td>
</tr>
<tr>
<td>Seal of track: Sealed track</td>
<td></td>
<td>Swing circle lubrication: Grease-bath</td>
</tr>
<tr>
<td>Track adjuster:</td>
<td></td>
<td>Service brake: Hydraulic lock</td>
</tr>
<tr>
<td>Number of track rollers (each side):</td>
<td></td>
<td>Holding brake/Swing lock: Mechanical disc brake</td>
</tr>
<tr>
<td>PC450-8:</td>
<td></td>
<td>Swing speed: 9.1 rpm</td>
</tr>
<tr>
<td>PC450LC-8:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of track rollers (each side):</td>
<td></td>
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</tr>
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<td></td>
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<tr>
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</tbody>
</table>

#### COOLANT AND LUBRICANT CAPACITY (REFILLING)

<table>
<thead>
<tr>
<th>OPERATING WEIGHT (APPROXIMATE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank: 650 ltr 172 U.S. gal</td>
</tr>
<tr>
<td>Coolant: 36.0 ltr 9.5 U.S. gal</td>
</tr>
<tr>
<td>Engine: 37.0 ltr 9.8 U.S. gal</td>
</tr>
<tr>
<td>Final drive, each side: 10.5 ltr 2.8 U.S. gal</td>
</tr>
<tr>
<td>Swing drive: 20.0 ltr 5.3 U.S. gal</td>
</tr>
<tr>
<td>Hydraulic tank: 248 ltr 65.9 U.S. gal</td>
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#### SPECIFICATIONS

<table>
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<tr>
<th>ENGINE</th>
</tr>
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<tbody>
<tr>
<td>Model: Komatsu SAA6D125E-5</td>
</tr>
<tr>
<td>Type: Water-cooled, 4-cylinder, direct injection</td>
</tr>
<tr>
<td>Aspiration: Turbocharged, aftercooled, cooled EGR</td>
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<tr>
<td>Number of cylinders: 6</td>
</tr>
<tr>
<td>Bore: 125 mm 4.92&quot;</td>
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<tr>
<td>Stroke: 150 mm 5.91&quot;</td>
</tr>
<tr>
<td>Piston displacement: 11.04 ltr 674 in³</td>
</tr>
<tr>
<td>Horsepower: SAE J1995: Gross 270 kW 362 HP</td>
</tr>
<tr>
<td>ISO 9249 / SAE J1349: Net 257 kW 345 HP</td>
</tr>
<tr>
<td>Rated rpm: 1900 rpm</td>
</tr>
<tr>
<td>Fan drive type:</td>
</tr>
<tr>
<td>Governor: All-speed control, electronic</td>
</tr>
<tr>
<td>Meets EPA Tier 3 and EU Stage 3A emission regulations.</td>
</tr>
</tbody>
</table>

#### Swing System

- Drive method: Hydrostatic
- Swing reduction: Planetary gear
- Swing circle lubrication: Grease-bath
- Service brake: Hydraulic lock
- Holding brake/Swing lock: Mechanical disc brake
- Swing speed: 9.1 rpm

#### Undercarriage

- Center frame: X-frame
- Track frame: Box-section
- Seal of track: Sealed track
- Track adjuster: Hydraulic
- Number of track rollers (each side): PC450-8: 46, PC450LC-8: 49
- Number of track rollers (each side): PC450-8: 2 each side, PC450LC-8: 7 each side

#### Hydraulic Excavator

- Operating weight including 7060 mm 23’7” one-piece boom, 3380 mm 11’1” arm, SAE heaped 1.9 m³ 2.49 yd³ bucket, rated capacity of lubricants, coolants, full fuel tank, operator, and standard equipment.

#### Operating Weight (Approximate)

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<tr>
<td>Hydraulic tank: 248 ltr 65.9 U.S. gal</td>
</tr>
</tbody>
</table>

#### Driving and Brakes

- Steering control: Two levers with pedals
- Drive method: Hydrostatic
- Maximum travel speed: High 5.5 km/h 3.4 mph (Auto-Shift) Mid 4.0 km/h 2.5 mph (Auto-Shift) Low 3.0 km/h 1.9 mph
- Service brake: Hydraulic lock
- Parking brake: Mechanical disc brake

#### Quarry Bucket

PC450-8 bucket is designed exclusively for quarry use and is higher strength for impact and wear. Various parts of work equipment are also strengthened.

- Fixed Skylight and Sunshade
- Deck Guard
- Strengthened Revolving Frame Underguard
- Full Roller Guard
- Heavy-duty Boom
- Heavy-duty Arm

#### Quarry Guard

- Dent Preventing Plates
- Side Reinforcement Plate
- 16 mm 0.63” thickness high-tensile strength steel used.

#### Quarry Guard

- Fixed One-piece Laminated Front Window Glass
- The front window is fixed and uses laminated safety glass to prevent scattering of glass fragments when broken.

#### Quarry Guard

- O-ring Added
- O-ring is added between bucket and linkage to prevent entrance of dirt.

#### Quarry Guard

- Bottom Wear Plate
- 19 mm 0.75” thickness high-tensile strength steel used.

#### Quarry Guard

- Corner Tooth Adapter
- Photo may include optional equipment.

#### Quarry Guard

- Double-flange Track Rollers
- Double-flange rollers guide track link correctly and extends life of undercarriage.

#### Quarry Guard

- PC450-8 engine is the SAA6D125E-5 model, a 6-cylinder, 4-stroke, direct injection engine.
- The engine meets EPA Tier 3 and EU Stage 3A emission regulations.
**HYDRAULIC EXCAVATOR**

**PC450-8**

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>PC450-8</th>
<th>PC450LC-8</th>
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</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>12040 mm</td>
<td>12040 mm</td>
</tr>
<tr>
<td>Length on ground</td>
<td>6560 mm</td>
<td>6725 mm</td>
</tr>
<tr>
<td>Overall height (to top of boom)*</td>
<td>3660 mm</td>
<td>3660 mm</td>
</tr>
<tr>
<td>Overall width</td>
<td>3430 mm</td>
<td>3430 mm</td>
</tr>
<tr>
<td>Overall height (to top of cab)*</td>
<td>3285 mm</td>
<td>3285 mm</td>
</tr>
<tr>
<td>Height, bucket to ground</td>
<td>385 mm</td>
<td>385 mm</td>
</tr>
<tr>
<td>Height, center to rear end</td>
<td>3605 mm</td>
<td>3605 mm</td>
</tr>
</tbody>
</table>

### Working Range

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>3380 mm</th>
<th>11'1&quot;</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Max. digging height</td>
<td>10925 mm</td>
</tr>
<tr>
<td>B</td>
<td>Max. dumping height</td>
<td>7625 mm</td>
</tr>
<tr>
<td>C</td>
<td>Max. vertical wall digging depth</td>
<td>8500 mm</td>
</tr>
<tr>
<td>D</td>
<td>Max. digging depth of cut for 8' level</td>
<td>7800 mm</td>
</tr>
<tr>
<td>E</td>
<td>Max. digging reach</td>
<td>12005 mm</td>
</tr>
<tr>
<td>F</td>
<td>Max. digging reach at ground level</td>
<td>11800 mm</td>
</tr>
</tbody>
</table>

### Backhoe Bucket, Arm, and Boom Combination

<table>
<thead>
<tr>
<th>Bucket Capacity (heaped)</th>
<th>Width</th>
<th>Weight</th>
<th>Number of Teeth</th>
<th>Arm Length 3.38 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE, PCSA, CECE</td>
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<tr>
<td>&quot;1.90 m²/2.49 yd²&quot;</td>
<td>1.70 m²/2.22 yd²</td>
<td>1625 mm</td>
<td>64.0&quot;</td>
<td>1966 kg 4,330 lb</td>
</tr>
<tr>
<td>&quot;2.10 m²/2.75 yd²&quot;</td>
<td>1.90 m²/2.49 yd²</td>
<td>1745 mm</td>
<td>68.7&quot;</td>
<td>2035 kg 4,490 lb</td>
</tr>
</tbody>
</table>

* General purpose use, material density up to 1.8 ton/m³ 1.52 U.S. ton/yd³

**Including grusser height**
**LIFTING CAPACITY WITH LIFTING MODE**

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

### PC450-8

<table>
<thead>
<tr>
<th>Arm (m)</th>
<th>0.0m</th>
<th>0.5m</th>
<th>1.0m</th>
<th>1.5m</th>
<th>2.0m</th>
<th>3.0m</th>
<th>4.0m</th>
<th>5.0m</th>
<th>6.0m</th>
<th>7.5m</th>
<th>9.0m</th>
<th>10.0m</th>
<th>11.0m</th>
<th>12.0m</th>
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<td>Cl (t)</td>
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<td>Cs (t)</td>
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<tr>
<td>Cf (t)</td>
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### PC450LC-8

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<thead>
<tr>
<th>Arm (m)</th>
<th>0.0m</th>
<th>0.5m</th>
<th>1.0m</th>
<th>1.5m</th>
<th>2.0m</th>
<th>3.0m</th>
<th>4.0m</th>
<th>5.0m</th>
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*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*