FLYWHEEL HORSEPOWER
246 kW 330 HP @ 1850 rpm

OPERATING WEIGHT
PC450-7: 43000 – 43420 kg
94,800 – 95,720 lb
PC450LC-7: 44000 – 44450 kg
97,000 – 97,990 lb

Photo may include optional equipment.
**Harmony with Environment**
- Low emission engine
- Powerful turbocharged and aftercooled Komatsu SAA6D125E-3 engine provides 246 kW 330 HP.
- Economy mode saves fuel consumption (reduced by approx. 20%).
- Low operation noise
- Designed for optimal use of recyclable materials

**Large Comfortable Cab**
New PC450-7’s cab volume is increased by 14%, offering an exceptionally roomy operating environment
- Highly pressurized cab with optional air conditioner
- Low noise design
- Low vibration with cab damper mounting
- OPG capable with optional bolt-on top guard

OGP (Operator Protective Guards) top guard level 2 by ISO 10262 (formerly FOG)

See page 6 and 7

**Easy Maintenance**
- Replacement interval is extended for engine oil, engine oil filter and hydraulic filter.
- Easy removal and installation of the radiator and oil cooler
- Fuel tank capacity is increased.
- New bushing design on work equipment extend lubricating interval.
- Easy access for engine inspection
- High-capacity air cleaner

See pages 8 and 9

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

See page 5

**Reduced revolving frame damage**
- Clearance between the revolving frame and track increased by 30%.

See page 5

**Productivity Features**

- **High Production and Low Fuel Consumption**
  Production is increased during Active mode while fuel efficiency is improved.

- **Low Fuel Consumption and High Output Engine**
  A powerful turbocharged and air to air aftercooled Komatsu SAA6D125E provides 246 kW 330 HP. Low fuel consumption is achieved by adopting an electronic controlled fuel injection system.

- **Large Digging Force**
  Arm crowd force is increased 8% and bucket digging force is increased 10% when the Power Max function is applied. (compared with PC450-6).

- **Two-mode Setting for Boom**
  Switch selection allows either powerful digging or smooth boom operation.

See page 4 and 5
High Production and Low Fuel Consumption

High production and low fuel consumption are achieved through the following two operation modes:

**ACTIVE MODE**
This mode handles large production by providing powerful and speedy operation, and achieves economical efficiency by substantial reduction of fuel consumption.

**ECONOMY MODE**
Operation speed equal to that of the Active mode can be achieved when handling light duty operation while also keeping fuel consumption low.

Electronically Controlled High Power Engine Installed
A 246kW (330HP) Komatsu SAA6D125E engine, is the largest in its class. High power and low fuel consumption are achieved by optimizing fuel injection via electronic control.

Maximum Digging Force among the 40-ton Class
With the addition of a one-touch power max. function (operation time of 8.5 seconds), the digging force has been further increased.

- **Maximum arm crowd force (ISO):**
  - PC450-6: 217 kN (22.1t)
  - PC450-7: 233 kN (23.8t)
  - *8% better*

- **Maximum bucket digging force (ISO):**
  - PC450-6: 253 kN (25.8t)
  - PC450-7: 278 kN (28.3t)
  - *(with Power Max.)*
  - *10% better*

Smooth Loading Operation
Two return hoses improve hydraulic performance. In the arm out function, a portion of the oil is efficiently returned to the tank.

Substantially Improved Stability
Improved lateral stability is achieved by increasing the counterweight (330kg 730lb) and improving the balance of the machine body.

- **Lateral Stability**
  - PC450: 10% better*
  - PC450LC: 22% better*

*(comparison with current model)*

Large Lifting Capacity
PC450-7’s improved lateral stability increases lifting capacity.

Variable Track Gauge (optional)
- Lateral stability is significantly improved when operating with the gauge extended.
- Lateral stability is increased by 30% (compared with the fixed gauge of the current model).
- Complies with transportation regulations by retracting the gauge.

Reduced Revolving Frame Damage
Damage to the revolving frame when going over rocks is reduced by increasing the clearance between the revolving frame and track.

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Large Comfortable Cab

**Comfortable Cab**
New PC450-7’s cab volume is increased by 14%, offering an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

**Pressurized Cab**
The optional air conditioner, air filter and a higher internal air pressure (10 mm Aq) prevent external dust from entering the cab.

**Low Noise Design**
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

**Low Vibration with Cab Damper Mounting**
PC450-7 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck aids vibration reduction at the operator’s seat.

Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL). dB (VL) is index for expressing size of vibration.

**Automatic Air Conditioner (optional)**
A 6,900 kcal air conditioner is utilized. 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.

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

**Washable Cab Floormat**
The PC450-7’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

**Defroster (optional)**

**Safety Features**

**Cab**
OPG (FOG) capable with optional bolt-on top guard.

**Wide Visibility**
The right side window pillar has been removed and the rear pillar reshaped to provide better visibility. Blind spots have been decreased by 34%.

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

**Pump/engine room partition**
Prevents oil from spraying on the engine if a hydraulic hose should burst.

**Thermal and fan guards**
Are placed around high-temperature parts of the engine and fan drive.

**Steps with non-skid sheet and large handrail**
Provide anti-slip footing for added safety.

**Large Handrail**

**Non-skid Sheet**

**Thermal Guard**

**Defroster (optional)**

**Cab Frame Mounted Wiper**

**Bottle Holder and Magazine Rack**

**Seat Sliding Amount:** 340 mm (13.4”), increased 120 mm (4.7”)
Multi-Function Color Monitor
A newly developed Multi-Function Color Monitor has multiple functions, such as Working mode selection, hydraulic pump oil flow adjustment for matching to attachment, and maintenance interval notice, etc.

EMMS (Equipment Management Monitoring System)

Monitor Function
Controller monitors engine oil level, coolant level, engine oil pressure, coolant temperature, battery charge and air cleaner clogging, etc. If the 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 error codes for effective troubleshooting.

Easy Maintenance

Easy removal and installation of the radiator (side-by-side cooling)
Removal and installation of the radiator and oil cooler are made easier by locating them side-by-side.

Easy Access for Engine Inspection
The engine oil check pipe, oil filler, and oil filter, etc., are located on the left side of the engine.

High-Capacity Air Cleaner
High capacity air cleaner is comparable to that of larger machine. The 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.

Fuel Tank Capacity Increased
Fuel tank capacity is increased from 605 ltr 160 U.S. gal to 650 ltr 172 U.S. gal to extend operating hours before refueling. The fuel tank is treated for rust prevention and improved corrosion resistance.

Reducing Maintenance Costs

- Hydraulic Oil and Filter/Engine Oil and Filter Replacement Interval Extended
The new high performance filters are used in hydraulic circuit and engine. Hydraulic oil filter, engine oil, and engine oil filter element replacement intervals are significantly extended to reduce maintenance costs.

Comparison of Replacement Intervals

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<tr>
<th></th>
<th>PC450-7</th>
<th>PC450-6</th>
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<tr>
<td>Engine oil</td>
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<tr>
<td>Engine oil filter</td>
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<td>Hydraulic oil</td>
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<tr>
<td>Hydraulic oil filter</td>
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<td>500</td>
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</table>

Work Equipment Lubrication Intervals Are Extended with OMRF Bushings
The lubrication interval is greatly extended by using BMRC bushings on the boom foot and boom cylinder, OMRF bushing on the other work equipment, and CRHF on the arm end face. Also, resin shims are applied to prevent friction sound between end faces at the work equipment pin bracket.

Work equipment lubrication interval

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<tr>
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<tr>
<td>Bucket pin bushings</td>
<td>250</td>
<td>50</td>
</tr>
<tr>
<td>Boom foot and boom cylinder bottom bushings</td>
<td>500</td>
<td>50</td>
</tr>
<tr>
<td>Other bushings</td>
<td>500</td>
<td>100</td>
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</tbody>
</table>

Quarry Hydraulic Excavator

The PC450-7 is a specially designed for heavy-duty applications. The PC450-7 has strengthened work equipment and reinforced body parts for use in severe job sites such as quarry and gravel gathering, etc.

- Cab with two-piece pull-up window (optional)
- Fixed one-piece laminated front window glass
- Fixed Skylight and Sunshade
- Heavy-Duty Boom
- Heavy-Duty Arm
- Deck Guard
- Strengthened Revolving Frame Underguard
- Full Roller Guard
- Double-Flange Track Roller

Photo may include optional equipment.

- New hydraulic oil filter

- BMRC (Bata Matrix Reinforced Copper Alloy)
- OMRF (Ordered Matrix Reinforced Ferrous Alloy)
- CRHF (Carbide Reinforced Hard facing Ferrous Alloy)
- O-Ring Added
- Side Reinforcement plate 16 mm 0.63” thickness high-tensile strength steel used
- O-Ring is added between bucket and linkage to prevent entrance of dirt
- Side Shrouds
- Bottom Wear Plate 19 mm 0.75” thickness high-tensile strength steel used
- Lip Shrouds
- Cornet Tooth Adapter
- Number of double-flange track rollers PC450-7 . . . . . . . . . . . . .3 each side PC450LC-7 . . . . . . . . . . . . .4 each side
PC450-7 HYDRAULIC EXCAVATOR

**SPECIFICATIONS**

**ENGINE**
- Model: Komatsu SAA6D125E-3
- Type: Water-cooled, 4-cycle, direct injection
- Number of cylinders: 6
- Bore: 125 mm 4.92"
- Stroke: 150 mm 5.91"
- Piston displacement: 11.04 lit 674 in³
- Horsepower: ISO 9249 / SAE J1349
- Gross: 259 kw 347 HP
- Net: 245 kw 330 HP
- Rated rpm: 1850 rpm
- Governor: All-speed control, electronic

**HYDRAULICS**
- Type: Hydraulic (Hydraulic Mechanical Integration 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
  - Supply for control circuit
- Hydraulic motors:
  - 2 x axial piston motor with parking brake
- Travel:
  - 1 x axial piston motor with parking brake holding brake
- Relief valve setting:
  - Implement circuits: 37.3 MPa 550 kgf/cm²
  - Travel circuit: 37.3 MPa 550 kgf/cm²
  - Swing circuit: 29.9 MPa 440 kgf/cm²
- Pilot circuit:
  - 3.0 MPa 43.5 kgf/cm²
- Hydraulic cylinders:
  - Number of cylinders – b o x s t r o k e r d i a m e t e r:
  - Boom: 2 – 160 mm x 1570 mm x 110 mm 6.3" x 61.8" x 4.3"
  - Arm: 1 – 185 mm x 1965 mm x 130 mm 7.3" x 78.1" x 5.1"
  - Bucket: 1 – 160 mm x 1270 mm x 110 mm 6.3" x 50.0" x 4.3"

**DRIVES AND BRAKES**
- Steering control:
  - Two levers with pedals
  - Drive:"Hydraulic
  - Maximum drawbar pull: 239 kN 33510 kgf 73,880 lb
  - Efficiency: 70%, 35°
  - Maximum travel speed (Auto-Sift): 5.5 kmh 3.4 mph
  - Md.: 4.4 kmh 2.7 mph
  - Maximum crowd force at power max.: 233 kN/470 psi
  - Service brake:
    - Hydraulic lock
  - Parking brake:
    - Mechanical disc brake

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

**UNDERCARRIAGE**
- Center frame:
  - X-frame
- Track frame:
  - Box-section
- Seal of track:
  - Sealed track
- Track adjuster:
  - Hydraulic
- Number of shoes (each side):
  - PC450-7: 7
  - PC450LC-7: 6
- Number of carrier rollers:
  - 2 each side
- Number of track rollers (each side):
  - PC450-7: 7
  - PC450LC-7: 8

**COOLANT AND LUBRICANT CAPACITY**
- Fuel tank: 650 lit 172 U.S. gal
- Coolant: 94.2 lit 90.0 U.S. gal
- Engine:
  - 36.0 lit 10.0 U.S. gal
- Final drive:
  - 12.0 lit 3.2 U.S. gal
- Swing drive:
  - 16.2 lit 4.3 U.S. gal
- Hydraulic tank: 248 lit 65.5 U.S. gal

**OPERATING WEIGHT**
- Approximate weight including 7600 mm 232" one-piece boom, 3880 mm 11" arm, SAC, 1.8 m 2.49 yd, bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

**STANDARD EQUIPMENT**
- Alternator, 35 Ampere, 24V
- Auto Decel
- Automatic engine warm-up system
- Automatic de-airation system for fuel line
- Batteries, 110 Ah x 2 12V
- Boom holding valve
- Cab capable FOG with optional bolt-on top guard
- Courtyard, 9250x20,330 ft
- Dry type air cleaner, double element
- Electric horn
- Engine, Komatsu SAA6D125E
- Engine oil lubrication system
- Fan guard structure
- Hydraulic track adjusters (each side)
- Long lubricating interval bushings for work equipment
- Monitor panel, color multifunction
- Power maximization system
- PPC hydraulic control system
- Radiator & oil cooler dust proof net
- Rear view mirror, R.H.
- Starting motor, 7.5 Kw
- Suction fan
- Track guiding guard, full guard
- Track roller
- Track shoe:
  - PC450-7, 7 each side
  - PC450LC-7, 8 each side
- Trackway:
  - PC450-7, 600 mm 23.6" triple grouser
  - PC450LC-7, 600 mm 23.6" triple grouser
- Two settings for boom
  - Working light, 2 (boom and RH)
  - Working mode selection system

**DIMENSIONS**
- Arm length:
  - PC450-7: 3380 mm 11'1"
  - PC450LC-7: 3380 mm 11'1"
- Length on ground:
  - PC450-7: 10.2 m 33'5"
  - PC450LC-7: 10.4 m 34'0"
- Overall width:
  - PC450-7: 3.6 m 11'10"
  - PC450LC-7: 3.6 m 11'10"
- Height:
  - PC450-7: 3.3 m 10'10"
  - PC450LC-7: 3.3 m 10'10"
- Overall height (to top of cab):
  - PC450-7: 3.3 m 10'10"
  - PC450LC-7: 3.3 m 10'10"
- Ground clearance (minimum):
  - PC450-7: 0.55 m 11"10"
  - PC450LC-7: 0.55 m 11"10"
- Tail swing radius:
  - PC450-7: 2.6 m 8'5"
  - PC450LC-7: 2.6 m 8'5"
- Track length on ground:
  - PC450-7: 3.53 m 11'7"
  - PC450LC-7: 3.53 m 11'7"
- Track gauge:
  - PC450-7: 2.74 m 8'10"
  - PC450LC-7: 2.74 m 8'10"
- L width of crane:
  - PC450-7: 1.12 m 3'8"
  - PC450LC-7: 1.12 m 3'8"
- M shoe width:
  - PC450-7: 0.60 m 23.6"
  - PC450LC-7: 0.60 m 23.6"
- N ground height:
  - PC450-7: 0.37 m 1'3"
  - PC450LC-7: 0.37 m 1'3"
- O machine cab height:
  - PC450-7: 2.71 m 8'11"
  - PC450LC-7: 2.71 m 8'11"
- P machine cab width:
  - PC450-7: 1.12 m 3'8"
  - PC450LC-7: 1.12 m 3'8"
- Q distance, swing center to rear end:
  - PC450-7: 3.05 m 10'\frac{1}{3}""
<table>
<thead>
<tr>
<th>LIFTING CAPACITY WITH LIFTING MODE</th>
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<thead>
<tr>
<th>A: Reach from swing center</th>
<th>Cf: Rating over front</th>
<th>B: Bucket hook height</th>
<th>C: Lifting capacity</th>
<th>Cf: Rating over side</th>
<th>D: Rating at maximum reach</th>
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### PC450-7

**Bucket: 1.9 m³ 2.40 yd³ heaped Shoe: 600 mm 23.6" triple grouser**

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### PC450LC-7

**Bucket: 1.9 m³ 2.40 yd³ heaped Shoe: 600 mm 23.6" triple grouser**

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### Notes:
- Lifting capacity is limited by hydraulic capacity rather than rating. Ratings are based on SAE Standard No. J497. Rated loads do not exceed 87% of hydraulic lift capacity or 70% of tipping load.
- Materials and specifications are subject to change without notice.
- Komatsu is a trademark of Komatsu Ltd. Japan.