PC1250LC-8, PC1250-8
BACKHOE With Tier 3 Engine

FLYWHEEL HORSEPOWER
502 kW 672 HP @ 1800 rpm

OPERATING WEIGHT
Backhoe: 106500–115249 kg
234,790–254,000 lb

BUCKET CAPACITY (SAE)
Backhoe: 3.4 - 6.7 m³
4.4 - 8.8 yd³

Photo may include optional equipment
Productivity Features

- **Heavy Lift Mode**
  Heavy lift mode increases lifting force by 10%.

- **Large Digging Force**
  High operation efficiency with large digging force for severe applications.

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

- **Twin Swing Motor System**
  Provides excellent swing performance, even on slopes.

- **Large Drawbar Pull and Steering Force**
  Provide excellent mobility.

- **Swing Priority Mode**
  Swing priority mode improves efficiency for loading dump trucks at 90° or 180° swing angles.

- **Shockless Boom**
  Switch selection reduces chassis vibration after sudden stops.

Easy Maintenance

- **Easy Cleaning of Cooling Unit**
  Fan reverse-rotation function helps keep radiator and oil cooler clean.

- **Centralized Arrangement of Engine Checkpoints**

- **Slip-resistant Plates**
  For improved foot traction

- **Large Handrails, Steps and Catwalk**
  Provide easy access to the engine, hydraulic equipment, and cab

Excellent Reliability and Durability

- **Booms and arms**
  Are constructed of thick one-piece plates and large castings for extended service life

- **Fuel Pre-filters**
  With water separator equipped as standard

- **O-ring Face Seals**, which have excellent sealing performance, are used for the hydraulic hoses

- **High-pressure In-line Filtration**
  The cool-running hydraulic system is protected with the most extensive filtration system available, including a high pressure in-line filter for each main pump.

- **Highly Reliable Electronic Devices**
  Exclusively designed electronic devices have passed severe testing.
  - Controllers
  - Sensors
  - Connectors
  - Heat resistant wiring
  - Circuit breaker

- **Boom Foot Hoses**
  Are arranged under the boom foot, improving hose life and safety
Ecology and Economy Features

● **Komatsu SAA6D170E-5 Engine is EPA Tier 3 Emissions Certified**
  • World’s first cooled EGR system with bypass-assist type electronically controlled venturi
  • Offers high power and low fuel consumption, while conforming to EPA Tier 3 emission regulations
  • Reduces NOx emissions by approximately 40%
  • Equipped with an electronically controlled variable speed reversible fan

● **Economy Mode Four-level Setting**
  Enables operator to select the appropriate Economy mode level to match production requirement with lowest fuel consumption.

● **Reduction of Ambient Noise**
  • Electronically controlled variable speed fan drive
  • Large hybrid fan
  • Glasswool type low-noise muffler with noise reducing cover

Working Environment

● **Large Comfortable Cab**
  • Low noise and vibration with cab damper mounting
  • Large-capacity automatic air conditioner
  • Pressurized cab prevents external dust from entering
  • OPG top guard level 2 is standard (ISO 10262)

Advanced Monitor Features

● Machine condition can be checked with Equipment Management Monitoring System (EMMS)
  • EMMS provides PM scheduling, error code, and failure diagnostic functions
  • Two working modes combine with heavy lift mode for maximum productivity

**PC1250LC-8**

**FLYWHEEL HORSEPOWER**
502 kW 672 HP @ 1800 rpm

**OPERATING WEIGHT**
Backhoe
106500–115249 kg
234,790–254,000 lb

**BUCKET CAPACITY (SAE)**
Backhoe
3.4 - 6.7 m³ 4.4 - 8.8 yd³

*Photo may include optional equipment.*
Komatsu’s new “ecot3” engines are designed to deliver optimum performance under the toughest of conditions, while meeting the latest environmental regulations. This engine is EPA Tier 3, EU Stage 3A and Japan emissions certified. “ecot3” – ecology and economy combined with Komatsu technology to create a high performance engine without sacrificing power or productivity.

**Environment-Friendly Clean Engine**
The PC1250LC-8, which is equipped with the Komatsu SAA6D170E-5 engine, is USA EPA Tier 3 and EU stage 3A emission certified. The SAA6D170E-5 engine adopts the world’s first cooled EGR system with electronically controlled bypass-assist type venturi. NOx emissions are reduced by 40%, while maintaining high power and low fuel consumption.

**Fuel Consumption Reduced Using Economy Mode**
Enables operator to set Economy mode to any of four levels according to working conditions. Production requirement is achieved at lowest possible fuel consumption.

**Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low Noise**
The electronic control system sets the rotational speed of the cooling fan according to coolant, hydraulic oil, and ambient temperatures. It effectively uses engine output to prevent wasteful fuel consumption and reduces noise during low-speed fan rotation.

**Reduction of Ambient Noise**
In addition to the electronically-controlled variable-speed fan drive, noise levels are further reduced with a low-noise muffler with cover, hybrid fan, low-noise components, and sound absorbing padding installed throughout the machine.
Large Digging Force
With its high engine output and efficient hydraulic system, the PC1250LC-8 demonstrates powerful digging force.

Max. arm crowd force (SAE): 392 kN 44.1 US ton
Max. bucket digging force (SAE): 422 kN 47.4 US ton

Large Drawbar Pull and Steering Force
Since the machine has large drawbar pull and high steering force, it demonstrates excellent mobility even when operated on inclined sites.

Two-Mode Setting for Boom
Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to Power mode for more effective excavating.

Shockless Boom Control
The PC1250LC-8 features a shockless boom control (double-check slow return valve) which automatically reduces the amount of vibration present when operating the boom. Operator fatigue is reduced (which can improve safety and productivity) and spillage caused by vibration is minimized.

Working Mode Selection

Power and Economy Mode
The PC1250LC-8 excavator is equipped with two working modes. Each mode is designed to match engine speed, pump flow, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

<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>(E0,E1,E2,E3)</td>
<td>Economy Mode</td>
<td>• Good cycle time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Improved fuel economy</td>
</tr>
</tbody>
</table>

Heavy Lift Mode
Gives the operator 10% more lifting force on the boom when needed for handling large rock or heavy lifting applications.

Swing Priority Setting
The swing priority setting allows the operator to use the same easy motion for 180° loading as 90° loading operations. By proportioning the oil flow, this setting allows the operator to select either boom or swing as the priority for increased production.
Excellent Reliability and Durability

**Boom Foot Hoses**
The boom foot hoses are arranged under the boom foot to reduce hose bend during operation, extending hose life and improving operator safety.

**Strengthened Boom and Arm**
With large cross-sectional structures, thick high tensile strength steel plates, and partition walls, the boom and arm structures exhibit excellent durability and are highly resistant to bending and torsional stress.

**High-Pressure In-line Filtration**
The PC1250LC-8 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line high pressure filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.

**Sturdy Undercarriage**
The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock.

**Metal Guard Rings**
Metal guard rings protect all the hydraulic cylinders and improve reliability.

**Track roller guard (full length)
(PC1250-8 option)**

**Tough Strengthened Frame Structure**
Strengthened revolving frame, center frame and crawler frames withstand severe applications with excellent durability.

**O-Ring Face Seal**
Hydraulic hose seals have been changed from a conventional taper seal to an O-ring seal. This provides improved long-term sealing performance.

**Fuel Pre-Filters (with Water Separator)**
Removes water and contaminants from fuel to enhance fuel system reliability.

**Heat-Resistant Wiring**
Heat-resistant wiring is utilized for the engine electrical circuits and other major component circuits.

**Circuit Breaker**
With the standard circuit breaker, the machine can be easily restarted after repair.

**FEM stress analysis**

**DT-Type Connectors**
DT-type connectors seal tight and have high reliability.
**WORKING ENVIRONMENT**

**The cab interior is spacious and provides a comfortable working environment...**

**Large Comfortable Cab**

**Comfortable Cab**

The PC1250LC-8’s cab offers an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

**Pressurized Cab**

The automatic air conditioner, air filters and a higher internal air pressure (6.0 mm Aq 0.2” Aq) prevent external dust from entering the cab.

**Low Noise Design**

Both engine noise and swing and hydraulic relief noise are remarkably reduced.

**Low Vibration with Cab Damper Mounting**

The PC1250LC-8 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 the floor is reduced from 120 dB (VL) to 115 dB (VL).

**Automatic Air Conditioner**

A 6900 kcal 27,400 Btu automatic air conditioner is standard. 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.

**Washable Cab Floormat**

The PC1250LC-8’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

**Sliding Window On Left Side of Cab**

**Comparison of Riding Comfort**

<table>
<thead>
<tr>
<th>Cab Damper Mounting</th>
<th>Multi-Layer Viscous Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Vertical direction on graph shows size of vibration.*

Photo may include optional equipment.
Safety Features

Step light with timer provides light for about one minute to allow the operator to exit the machine safely.

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.

Slip-resistant plates Serrated plates on working surfaces provide improved foot traction.

Horn interconnected with warning light gives visual and audible notice for directing trucks or other communication.

Multi-Position Controls

The multi-position, PPC (proportional pressure 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.
Komatsu Designed the PC1250LC-8 for Easy Service Access

Easy Checking and Maintenance
Wide center walkway provides easy access to most inspection and maintenance points. In addition, inspection and maintenance points are grouped to facilitate easy engine and hydraulic component checks.

Wide Catwalk, Large Steps and Handrails
Easier, safer operator cab access and maintenance checks.

Easy Cleaning of Radiator
The hydraulically driven fan can be reversed from the cab to facilitate cleaning of the cooling unit. In addition, this feature can be used to reduce warm-up time in low temperatures.

Reduced Maintenance Costs
Hydraulic oil filter replacement is extended from 500 to 1000 hours.

Dust Indicator with 5-step Indication
Informs of air cleaner clogging in 5 steps to warn of filter condition.

Convenient Utility Space
Utility space provides great convenience to store tools, coveralls, filters, etc.

Electric priming pump
Bleeding air from fuel system is easily accomplished with the electric priming pump.
High-Quality EMMS Self-diagnostic System

• Abnormality Checking Function
If an abnormality should occur, the monitoring system checks whether hydraulic pressures, solenoid ON/OFF status, engine speed, electrical connections, etc. are within normal operating range.

• Maintenance History Memory Function
Maintenance records such as replacement of engine oil, hydraulic oil, filters, can be stored. Operator is warned when service is due.

• Trouble Data Memory Function
Trouble data is stored to serve as reference for future troubleshooting. Error codes are displayed to aid in service diagnosis.

Vehicle Health Monitoring System (VHMS)
The VHMS controller monitors the health condition of major components and enables remote analysis of the machine and its operation. Data can be downloaded to a laptop computer directly or via satellite link. VHMS contributes to reduced repair costs and helps maintain maximum availability.
**ENGINE**

Model: Komatsu SAA6D170E-5
Type: 4-cycle, water-cooled, direct injection
Aspiration: Turbocharged, aftercooled, cooled EGR
Number of cylinders: 6
Bore: 170 mm 6.69"
Stroke: 170 mm 6.69"
Piston displacement: 23.15 ltr 1413 in³
Governor: All-speed, electronic
Horsepower
- SAE J1995: Gross 514 kW 688 HP
- ISO 9249 / SAE J1349: Net 502 kW 672 HP
Hydraulic fan at maximum speed: Net 463 kW 620 HP
Rated rpm: 1800 rpm
Fan drive type: Hydraulic, variable speed, reversible

**HYDRAULIC SYSTEM**

Type: Open-center load sensing system
Number of selectable working modes: 2
Main pumps:
- Type: Variable capacity piston pumps
- Pumps for: Boom, arm, bucket, swing, and travel circuits
Maximum flow:
- For implement and travel: 2 x 494 ltr/min 2 x 130.5 U.S. gpm
- For swing: 1 x 600 ltr/min 1 x 158.5 U.S. gpm
Sub-pump for control circuit: Gear pump
Hydraulic motors:
- Travel: 2 x axial piston motors with parking brake
- Swing: 2 x axial piston motors with swing holding brake
Relief valve setting:
- Implement circuits: 31.4 MPa 320 kg/cm² 4,550 psi
- Travel circuit: 34.3 MPa 350 kg/cm² 4,980 psi
- Swing circuit: 27.0 MPa 275 kg/cm² 3,910 psi
- Pilot circuit: 2.9 MPa 30 kg/cm² 430 psi
Hydraulic cylinders:
- Number of cylinders—bore x stroke
  - Backhoe:
    - Boom: 2 x 225 mm x 2390 mm 8.9" x 94.1"
    - Arm: 1 x 250 mm x 2435 mm 9.8" x 95.9"
    - Bucket:
      - Std: 2 x 160 mm x 1825 mm 6.3" x 71.8"
      - SP: 2 x 160 mm x 1950 mm 6.3" x 76.8"
- Steer:
  - 2 x hydraulic motors
- Swing reduction:
  - Planetary gear
- Swing circle lubrication:
  - Grease bathed
- Swing lock:
  - Oil disc brake
- Swing speed: 5.5 rpm

**DRIVES AND BRAKES**

Steering control: Two levers with pedals
Drive method: Fully hydrostatic
Travel motor: Axial piston motor, in-shoe design
Reduction system: Planetary double reduction
Maximum drawbar pull: 686 kN 70000 kg 154,320 lb
Gradeability: 70%
Maximum travel speed:
- High: 3.2 km/h 2.0 mph
- Low: 2.1 km/h 1.3 mph
Service brake: Hydraulic lock

**UNDERCARRIAGE**

Center frame: H-leg frame
Track frame: Box-section
Track type: Sealed
Track adjuster: Hydraulic
No. of shoes:
- Standard, SP: 48 each side
- LC: 55 each side
No. of carrier rollers: 3 each side
No. of track rollers:
- Standard, SP: 8 each side
- LC: 10 each side

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**

Fuel tank: 1360 ltr 359.3 US gal
Radiator: 142 ltr 37.5 US gal
Engine: 86 ltr 22.7 US gal
Final drive, each side: 21 ltr 5.5 US gal
Swing drive: 2 x 24.3 ltr 2 x 6.4 US gal
Hydraulic tank: 670 ltr 177.0 US gal
PTO: 13.5 ltr 3.6 US gal

**BACKHOE**

PC1250-8: 9100 mm 29’10" boom, 3400 mm 11’2” arm, SAE heaped 5.0 m³ 6.5 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and standard equipment.

PC1250LC-8: 9100 mm 29’10" boom, 3400 mm 11’2” arm, SAE heaped 5.0 m³ 6.5 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and standard equipment.

**OPERATING WEIGHT (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Shoes</th>
<th>PC1250-8</th>
<th>PC1250LC-8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operating Weight</td>
<td>Ground Pressure</td>
</tr>
<tr>
<td>Double grouser 700 mm 28&quot;</td>
<td>106500 kg 234,790 lb</td>
<td>1.39 kgf/cm² 19.8 psi</td>
</tr>
<tr>
<td>Double grouser 1000 mm 39.4&quot;</td>
<td>108810 kg 238,880 lb</td>
<td>0.99 kgf/cm² 14.1 psi</td>
</tr>
<tr>
<td>Double grouser 1200 mm 47.25&quot;</td>
<td>—</td>
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### PC1250-8/PC1250LC-8

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<td>13910 mm 45'6&quot;</td>
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<td>B Max. dumping height</td>
<td>8680 mm 28'6&quot;</td>
<td>9440 mm 31'0&quot;</td>
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<td>C Max. digging depth</td>
<td>9350 mm 30'8&quot;</td>
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<td>D Max. vertical wall digging depth</td>
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<td>F Max. digging reach</td>
<td>15350 mm 50'4&quot;</td>
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<td>G Max. digging reach at ground level</td>
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<td>17130 mm 56'2&quot;</td>
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<td>H Min. swing radius</td>
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</tr>
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### PC1250SP-8

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</table>

**Diagram:**
- **PC1250LC-8 HYDRAULIC EXCAVATOR WORKING RANGE**
- Dimensions and forces are indicated for various operations, such as digging height, dumping height, digging depth, and reach.

**Table:**
- Key specifications for PC1250-8/PC1250LC-8 and PC1250SP-8 are listed, including maximum digging heights, dumping heights, digging depths, and working ranges.
- Values are provided in metric and imperial units, with corresponding bucket and arm crowd forces for each model.

**Legend:**
- A Max. digging height
- B Max. dumping height
- C Max. digging depth
- D Max. vertical wall digging depth
- E Max. digging depth of cut for 8’ level
- F Max. digging reach
- G Max. digging reach at ground level
- H Min. swing radius
- Bucket digging force (SAE)
- Arm crowd force (SAE)
- Bucket digging force (ISO)
- Arm crowd force (ISO)
HYDRAULIC EXCAVATOR

BACKHOE DIMENSIONS

Unit: mm ft.in.

<table>
<thead>
<tr>
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<th>PC1250SP-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m 29'10&quot; boom</td>
<td>7.8 m 25'7&quot; boom</td>
</tr>
<tr>
<td>3.4 m 11'2&quot; arm</td>
<td>4.5 m 14'9&quot; arm</td>
</tr>
<tr>
<td>A. Overall Height</td>
<td>6040 mm 19'10&quot;</td>
</tr>
<tr>
<td>B. Overall Length</td>
<td>16020 mm 52'7&quot;</td>
</tr>
</tbody>
</table>

BACKHOE BUCKET, ARM, AND BOOM COMBINATION

<table>
<thead>
<tr>
<th>BUCKET CAPACITY (HEAPED)</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE, PCCA</td>
<td>CECE</td>
</tr>
<tr>
<td>m³</td>
<td>m³</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>3.4</td>
<td>4.4</td>
</tr>
<tr>
<td>4.0</td>
<td>5.2</td>
</tr>
<tr>
<td>5.0</td>
<td>6.5</td>
</tr>
<tr>
<td>5.2</td>
<td>6.8</td>
</tr>
</tbody>
</table>

PC1250LC-8/PC1250-8 (use with 9.1 m 29'10" boom)

<table>
<thead>
<tr>
<th>SAE, PCCA</th>
<th>CECE</th>
<th>3.4 11'2&quot;</th>
<th>4.5 14'9&quot;</th>
<th>5.7 18'8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 5.2</td>
<td>3.5 4.6</td>
<td>—</td>
<td>□</td>
<td>▲</td>
</tr>
<tr>
<td>5.0 6.5</td>
<td>4.3 5.6</td>
<td>□</td>
<td>▲</td>
<td>—</td>
</tr>
<tr>
<td>5.2 6.8</td>
<td>4.5 5.9</td>
<td>□</td>
<td>▲</td>
<td>—</td>
</tr>
</tbody>
</table>

PC1250SP-8 (use with 7.8 m 25'7" boom)

<table>
<thead>
<tr>
<th>SAE, PCCA</th>
<th>CECE</th>
<th>3.4 11'2&quot;</th>
<th>—</th>
<th>—</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.7 8.8</td>
<td>5.9 7.7</td>
<td>2280</td>
<td>69.8&quot;</td>
<td>2340</td>
</tr>
</tbody>
</table>

These charts are based on over-side stability with fully loaded bucket at maximum reach.

□: General purpose use, density up to 2.1 t/m³ 3,500 lb/yd³
▲: General purpose use, density up to 1.5 t/m³ 2,500 lb/yd³
—: Not useable
### LIFTING CAPACITIES

#### PC1250LC-8

**Equipment:**
- **Boom:** 9.1 m (29’10’’)
- **Arm:** 3.4 m (11’2’’)
- **Bucket:** 5.0 m³ (6.5 yd³)
- **Bucket weight:** 4580 kg (10,097 lb)
- **Track shoe width:** 1200 mm (47.2’’)
- **10-roller track frame**
- **Heavy lift mode “on”**

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

<table>
<thead>
<tr>
<th>B</th>
<th>12.2 m 40’’</th>
<th>10.7 m 35’’</th>
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<th>7.6 m 25’’</th>
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<th>4.6 m 15’’</th>
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<tr>
<td>6.1 m 20’’</td>
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<td><em>22950</em></td>
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<tr>
<td>3.0 m 10’’</td>
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<td><em>19950</em></td>
<td><em>22950</em></td>
<td><em>22950</em></td>
<td><em>27900</em></td>
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<td><em>37400</em></td>
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<tr>
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</table>

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### LIFTING CAPACITIES

#### PC1250LC-8

**Equipment:**
- **Boom:** 9.1 m (29’10’’)
- **Arm:** 3.4 m (11’2’’)
- **Bucket:** 5.0 m³ (6.5 yd³)
- **Bucket weight:** 4580 kg (10,097 lb)
- **Track shoe width:** 1200 mm (47.2’’)
- **10-roller track frame**
- **Heavy lift mode “on”**

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

<table>
<thead>
<tr>
<th>B</th>
<th>12.2 m 40’’</th>
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</tr>
<tr>
<td>6.1 m 20’’</td>
<td><em>15950</em></td>
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<td><em>22950</em></td>
<td><em>22950</em></td>
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</table>

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### PC1250LC-8 Hydraulic Excavator

#### Equipment:
- **Boom:** 9.1 m 29'10"
- **Arm:** 4.5 m 14'9"
- **Bucket:** 4.0 m³ 5.2 yd³
- **Bucket weight:** 4042 kg 8,911 lb
- **Track shoe width:** 1200 mm 47.2"
- **10-roller track frame
- **Heavy lift mode “on”**

#### Lifting Capacities

<table>
<thead>
<tr>
<th>A</th>
<th>Maximum</th>
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<tbody>
<tr>
<td><strong>B</strong></td>
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<td>Cl</td>
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<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>9.1 m 30'</td>
<td>*9300</td>
</tr>
<tr>
<td>6.1 m 20'</td>
<td>*10950</td>
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<tr>
<td>3.0 m 10'</td>
<td>*24,200</td>
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</tr>
<tr>
<td>−3.0 m −10'</td>
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<tr>
<td>−6.1 m −20'</td>
<td>*21750</td>
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</tbody>
</table>

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### PC1250LC-8 Hydraulic Excavator

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<th>Maximum</th>
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<tr>
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<tr>
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<td>*20150</td>
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<td>−6.1 m −20'</td>
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</tbody>
</table>

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**PC1250LC-8**

**Equipment:**
- Boom: 9.1 m 29'10"
- Arm: 5.7 m 18'8"
- Bucket: 3.4 m³ 4.4 yd³
- Bucket weight: 3787 kg 8,349 lb
- Track shoe width: 1200 mm 47.2"
- 10-roller track frame
- Heavy lift mode “on”

**LIFTING CAPACITY**

<table>
<thead>
<tr>
<th>Unit: kg lb</th>
</tr>
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<tbody>
<tr>
<td>9.1 m 30’</td>
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<tr>
<td>-3.0 m -10’</td>
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<tr>
<td>-6.1 m -20’</td>
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**PC1250LC-8**

**Equipment:**
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- Arm: 5.7 m 18'8"
- Bucket: 3.4 m³ 4.4 yd³
- Bucket weight: 3787 kg 8,349 lb
- Track shoe width: 1200 mm 47.2"
- 10-roller track frame
- Heavy lift mode “on”

**LIFTING CAPACITY**

<table>
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<tbody>
<tr>
<td>9.1 m 30’</td>
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<tr>
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<td>-6.1 m -20’</td>
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* A: Reach from swing center
* B: Bucket hook height
* C: Lifting capacity
* Cf: Rating over front
* Cs: Rating over side
* : Rating at maximum reach
**PC1250-8**

**Equipment:**
- Boom: 9.1 m 29'10"
- Arm: 3.4 m 11'2"
- Bucket: 5.0 m³ 6.5 yd³
- Bucket weight: 4400 kg 9,700 lb
- Bucket hook height: 3.65 yd³
- Track shoe width: 700 mm 28"
- 8-roller track frame

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**LIFTING CAPACITIES**

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Maximum</th>
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<td>Cs</td>
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**Unit:** kg lb

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**PC1250-8**

**Hydraulic Excavator**

**Equipment:**
- Boom: 9.1 m 29'10"
- Arm: 4.5 m 14'9"
- Bucket: 4.0 m³ 5.2 yd³
- Bucket weight: 3800 kg 8,380 lb
- Track shoe width: 700 mm 28"
- 8-roller track frame

**Lifting Capacity**

<table>
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<td>Cs Cl</td>
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<td>Cl Cs Cl</td>
<td>Cl Cs Cl</td>
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<td>19000*</td>
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<td>15850</td>
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<td>19000*</td>
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</tr>
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<td>9300</td>
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<td>9300*</td>
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</tbody>
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PC1250-8  HYDRAULIC EXCAVATOR

LIFTING CAPACITIES

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>13.7 m 45'</th>
<th>12.2 m 40'</th>
<th>10.7 m 35'</th>
<th>9.1 m 30'</th>
<th>7.6 m 25'</th>
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<td>Cs</td>
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<td>*13,400</td>
<td>*13,400</td>
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<td>14950</td>
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Heavy Lift: On

- Reach from swing center
- Bucket hook height
- Lifting capacity
- Rating over front
- Rating over side
- Rating at maximum reach

Unit: kg lb
PC1250SP-8

LIFTING CAPACITY

Equipment:
- Boom: 7.8 m (25')
- Arm: 3.4 m (11.2')
- Bucket: 6.7 m³ (8.8 yd³)
- Bucket weight: 6300 kg (13,890 lb)
- Track shoe width: 700 mm (28")
- 8-roller track frame
- B: Bucket hook height
- Cs: Rating over side
- Cf: Rating over front
- A: Reach from swing center
- Cs: Rating at maximum reach

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>12.2 m 40'</td>
</tr>
<tr>
<td></td>
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<td>Cf</td>
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</tr>
<tr>
<td>30'</td>
<td>*25,800</td>
<td>*25,800</td>
</tr>
<tr>
<td>20'</td>
<td>*27,000</td>
<td>*27,000</td>
</tr>
<tr>
<td>0'</td>
<td>*42,600</td>
<td>*42,600</td>
</tr>
<tr>
<td>–3.0 m</td>
<td>*23900</td>
<td>19550</td>
</tr>
<tr>
<td>–2.0 m</td>
<td>*50,700[1]</td>
<td>43,100</td>
</tr>
<tr>
<td>–1.0 m</td>
<td>*93,600[1]</td>
<td>80,800</td>
</tr>
<tr>
<td>–0.0 m</td>
<td>*146,800[1]</td>
<td>137,000</td>
</tr>
<tr>
<td>0.0 m</td>
<td>*193,000</td>
<td>182,000</td>
</tr>
</tbody>
</table>

* 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.
Transportation volume (length x height x width)

Specs shown include the following equipment:
Backhoe: Boom 9100 mm 29'10", Arm 3400 mm 11'2", Bucket 5.0 m³ 6.5 yd³, Shoes 700 mm 28" double grouser
STANDARD EQUIPMENT

ENGINE AND RELATED ITEMS:
- Air cleaner, double element, dry type
- Auto decelerator
- Electric fuel priming pump
- Engine, Komatsu SAA6D170E-5
- Fuel pre-filters (10 micron) with water separator
- Fuel primary filter (2 micron)
- Variable speed cooling fan, hydraulic drive, reversible

ELECTRICAL SYSTEM:
- Alternator, 90 amp, 24 V
- Batteries, 220 Ah, 2 x 12 V
- Interconnected horn and flashing light
- Power supply, 12V
- Starting motors, 11kW x 2
- Step light with timer
- Working lights-2 boom, 2 cab top front, 1 cab bottom

UNDERCARRIAGE:
- 700 mm 28'' double grouser (PC1250-8)
- 1000 mm 39.4'' double grouser (PC1250LC-8)
- 8 track/3 carrier rollers (each side)(PC1250-8)
- 10 track/3 carrier rollers (each side)(PC1250LC-8)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

GUARDS AND COVERS:
- Engine thermal guards and fan guard
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition wall
- Travel motor guards
- Revolving frame under cover (Heavy-duty)
- Track frame undercover (center)

OPERATOR ENVIRONMENT:
- Damper mount, all-weather, pressurized, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floormat, cigarette lighter and ashtray
- Instrument panel with electronic display/monitor system, electronically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check lights (coolant, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Automatic air conditioner/heater/defroster system
- FOPS
- Pull-up type front window, lockable

HYDRAULIC CONTROLS:
- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- One gear pump for control circuit
- Two axial piston motors for swing with single-stage relief valve
- One axial piston motor per track for travel with counter balance valve
- Three variable capacity piston pumps (2 Main, 1 Swing)
- Three control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler, hydraulic
- In-line high pressure hydraulic filters
- Shockless boom control
- Swing priority mode
- Two-mode setting for boom
- Working modes: Power, Economy (four level), Heavy Lift

DRIVE AND BRAKE SYSTEM:
- Brakes, hydraulic lock travel brakes, oil disc parking
- Hydrostatic two travel speed system with planetary double reduction final drive

OTHER STANDARD EQUIPMENT:
- Automatic swing holding brake
- Corrosion resister
- Counterweight, 18000 kg 39,680 lb
- Grease gun, air pump type
- Horn, air
- Large handrails and steps
- Lift capacity chart
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Slip resistant plates
- Travel alarm
- Vehicle Health Monitoring System (VHMS) with ORBCOMM
- Wide catwalk

OPTIONAL EQUIPMENT

- Arms (Backhoe):
  - 3400 mm 11'2" arm assembly
  - 3400 mm 11'2" SP arm assembly (PC1250-8)
  - 4500 mm 14'9" arm assembly
  - 5700 mm 18'8" arm assembly
- Booms (Backhoe):
  - 7800 mm 25'7" SP boom assembly (PC1250-8)
  - 9100 mm 29'10" boom assembly
- Cab full front guard (PC1250-8)
- Shoes:
  - 1000 mm 39.4" double grouser (PC1250-8)
  - 1200 mm 47.25" double grouser (PC1250LC-8)
- Track roller guard (full length) (PC1250-8)