PC1250/1250SP-8 BACKHOE
PC1250-8 LOADING SHOVEL

HORSEPOWER
Gross: 514 kW 688 HP @ 1800 rpm
Net: 502 kW 672 HP @ 1800 rpm

OPERATING WEIGHT
Backhoe: 106500–110700 kg 234,790–244,050 lb
Loading shovel: 110900 kg 244,490 lb

Photo may include optional equipment.
**Productivity Features**

- **Heavy Lift Mode**
  The 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**
  The swing priority mode improves efficiency for loading dump trucks at 90° or 180°.

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

  See page 5.

**Easy Maintenance**

- **Easy Cleaning of Cooling Unit**
  Fan reverse-rotation function facilitates clogged radiator cleaning.

- **Centralized Arrangement of Engine Checkpoints**

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

- **Large Handrail, Step and Catwalk** provide easy access to the engine and hydraulic equipment.

  See page 10.

**Excellent Reliability and Durability**

- **Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)**

- **KMAX Bucket Teeth** offer superior penetration and long-term sharpness.

- **Fuel Pre-filter** 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.

  See page 6.

- **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

- Low Emission Engine
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D170E-5 provides 502 kW 672 HP. This engine is U.S. EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

- 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-furnished low-noise muffler and noise reducing cover around the muffler

See page 4.

Working Environment

- Large Comfortable Cab
  - Low noise and vibration with cab damper mounting
  - Large-capacity air conditioner (optional)
  - Pressurized cab prevents external dust from entering
  - OPG top guard level 2 (ISO 10262) capable with optional bolt-on top guard.

See pages 8, 9.

Advanced Monitor Features

- Machine condition can be checked with Equipment Management Monitoring System.
  See page 11.

- Two working modes combine with heavy lift mode for maximum productivity.
  See page 5.
Komatsu Technology

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this “Komatsu Technology,” and adding 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 Emission Engine
Komatsu SAA6D170E-5 engine is U.S. EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

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 the coolant, hydraulic oil, and ambient temperature; effectively uses the engine output to prevent wasteful fuel consumption; and reduces noise during low-speed fan rotation.

Lower and Economical Fuel Consumption Using Economy Mode
Enables operator to set the Eco mode to up to four levels according to working conditions so that production requirement is achieved at lowest possible fuel consumption.

Reduction of Ambient Noise
Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan, low-noise muffler and cover with glasswool.
Working Mode Selection

**Power and Economy Mode**
The PC1250-8 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>
</table>
| P            | Power Mode  | ● Maximum production/power  
              |              | ● Fast cycle time       |
| E (E0,E1,E2,E3) | Economy Mode | ● Good cycle time  
                  |               | ● Good fuel economy     |

**Heavy Lift Mode**
Gives the operator 10% more lifting force on the boom when needed for handling 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 altering the oil flow, this setting allows you to select either boom or swing as the priority for increased production.

---

**Large Digging Force**
Thanks to the high engine output and an excellent hydraulic system, this machine demonstrates powerful digging force.

- Maximum arm crowd force (ISO 6015): 412 kN 42.0 ton
- Maximum bucket digging force (ISO 6015): 479 kN 48.8 ton

**Large Drawbar Pull and Steering Force**
Since the machine has a large drawbar pull and a high steering force, it demonstrates excellent mobility even when it is being used 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 PC1250-8 boom circuit features a shockless valve (double-check slow return valve) to 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.
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**
Thanks to the large cross-sectional structure employing a high tensile strength steel with a thick plate, partition wall, etc., the boom and arm exhibit excellent durability and are highly resistant to bending and torsional stress.

**O-ring Face Seal**
The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance during operation.

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

**High-pressure In-line Filtration**
The PC1250-8 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.

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

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

**Track roller guard (full length)**
*(optional)*

**Heat-resistant Wiring**
Heat-resistant wiring is utilized for the engine electric circuit and other major component circuit.

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

**Tough strengthened frame structure**
Strengthened revolving frame, center frame and crawler frame endure heavy-duty works and exhibit their excellent durability.

**Sealed Connectors**
Connectors seal tight and have higher reliability.
Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)

The PC1250-8 has the bucket for specific use in quarry, this is strong in impact and wear, and providing high performance and long life. Komatsu KVX’s hard materials* provide excellent wear resistance. Combined with adoption of long-life XS teeth, durability of bucket is drastically enhanced.

* Komatsu KVX’s hard materials:
Komatsu KVX developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180kgf/mm² class). Features high wear-resistance and little quality change from the heat generated during rock loading, maintaining long term hardness.

**XS Tooth**
- Unique bucket tooth shape, superior digging performance
- Long-term high sharpness
- Great penetration performance
- Hammerless, safe, and easy tooth replacement
  (Tooth replacement time: Halves the conventional machine.)

---

**STEP 1**
Observing proper safety procedures, place tooth onto adapter (as shown).

**STEP 2**
Insert fastener, making sure it is in the unlocked position (as shown).

**STEP 3**
Using the correct size socket, rotate the pin locking shaft 90˚ clockwise (as shown) to finish the installation.

**STEP 4**
To remove fastener, use the correct size socket to rotate the pin locking shaft 90˚ counter-clockwise (as shown). Remove fastener and tooth. Repeat steps 1-3 for a new installation.
The cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

**Comfortable Cab**
New PC1250-8’s cab offers an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

**Pressurized Cab**
The optional air conditioner, air filter and a higher internal air pressure (6.0 mm Aq 0.2” in 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**
PC1250-8 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 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.

**Washable Cab Floormat**
The PC1250-8’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

---

**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>

**Conditions:**
- Traveling over obstacle
- Traveling speed forward high

Vertical direction on graph shows size of vibration.
Multi-position Controls
The multi-position, Pressure Proportional Control (PPC) 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.

Safety Features

Step light with timer
provides light for about one minute to allow the operator to get off 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
Spiked plates on working surfaces provide slip-resistant performance.

Horn interconnected with warning light (optional) give visual and audible notice of the excavator’s operation when activated.
Komatsu Designed the PC1250-8 for Easy Service Access.

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

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

Easy Cleaning of Radiator
The hydraulically driven fan can be reversed to facilitate cleaning of the cooling unit. In addition, this feature contributes to reducing 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, spare parts, etc.

Electric priming pump
Bleeding air from fuel system is easily accomplished with the electric priming pump.
High-Quality Equipment Management Monitoring System

Self-diagnostic System

- **Abnormality Checking Function**
  If any abnormality should occur, the monitoring system checks whether hydraulic pressures, solenoid ON/OFF status, engine speed, electrical connections, etc. are within normal condition to keep machine downtime to a minimum.

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

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

KOMTRAX Plus (optional)

KOMTRAX Plus controller monitors the health conditions of major components and enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.

![KOMTRAX Plus Diagram](image)

- **Satellite communication (option)**
- **Customer job site**
- **Internet**
- **EQP-CARE server**
- **Personal computer terminal (for downloading data)**
**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
Rated rpm: 1800 rpm
Fan drive type: Hydraulic
U.S. EPA Tier 3 and EU stage 3A emission certified.

*Net horsepower at the maximum speed of radiator cooling fan is 463 kW 620HP.

**HYDRAULIC SYSTEM**

Type: Open-center load-sensing system
Number of selectable working modes: 2
Main pump:
- 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
- Backhoe
- Loading shovel
- Travel circuit
- Swing circuit
- Pilot circuit
- Hydraulics cylinders:
  - Number of cylinders—bore x stroke

**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 kgf 154.320 lb
Gradeability: 70%
Maximum travel speed
- Low: 2.1 km/h 1.3 mph
- High: 3.2 km/h 2.0 mph
Service brake: Hydraulic

**UNDERCARRIAGE**

Center frame: H-leg frame
Track frame: Box-section
Seal of track: Sealed
No. of shoes: 48 each side
No. of carrier rollers: 3 each side
No. of track rollers: 8 each side

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**

Fuel tank: 1360 ltr 359.3 U.S. gal
Radiator: 142 ltr 37.5 U.S. gal
Final drive, each side: 21 ltr 5.5 U.S. gal
Swing drive: 20 x 2 ltr 5.3 x 2 U.S. gal
Hydraulic tank: 670 ltr 177.0 U.S. gal
Power Take Off (PTO): 13.5 ltr 3.7 U.S. gal

**OPERATING WEIGHT (APPROXIMATE)**

**BACKHOE**

PC1250-8: Operating weight, including 9100 mm 2910” boom, 3400 mm 112” arm, SAE heaped 5.0 m³ 6.5 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC1250SP-8: Operating weight, including 7800 mm 257” boom, 3400 mm 112” arm, SAE heaped 6.7 m³ 8.8 yd³ backhoe bucket, full length roller guard, operator, lubricant, coolant, full fuel tank, and the standard equipment.

**LOADING SHOVEL**

Operating weight, including 5300 mm 175” boom, 3800 mm 126” arm, 6.5 m³ 8.5 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.
These charts are based on overside stability with fully loaded bucket at maximum reach.

A General purpose use, density up to 2.1 t/m³ 3,500 lb/yd³
B General purpose use, density up to 1.8 t/m³ 3,000 lb/yd³
C General purpose use, density up to 1.5 t/m³ 2,500 lb/yd³
D Not useable
LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity–heaped</td>
<td>6.5 m³ 8.5 yd³</td>
</tr>
<tr>
<td>A Overall Height</td>
<td>6200 mm 20'4&quot;</td>
</tr>
<tr>
<td>B Overall Length</td>
<td>10940 mm 35'11&quot;</td>
</tr>
</tbody>
</table>

Working Range

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity–heaped</td>
<td>6.5 m³ 8.5 yd³</td>
</tr>
<tr>
<td>A Max. cutting height</td>
<td>12330 mm 40'5&quot;</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>8790 mm 28'7&quot;</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>3650 mm 12'0&quot;</td>
</tr>
<tr>
<td>D Max. digging reach</td>
<td>11400 mm 37'5&quot;</td>
</tr>
<tr>
<td>E Max. digging reach at ground level</td>
<td>10900 mm 35'9&quot;</td>
</tr>
<tr>
<td>F Level crowding distance</td>
<td>4480 mm 14'8&quot;</td>
</tr>
<tr>
<td>G Min. crowd distance</td>
<td>6130 mm 20'1&quot;</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>579 kN 59000 kgf / 130,100 lb</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>608 kN 62000 kgf / 138,710 lb</td>
</tr>
</tbody>
</table>

Bucket Selection

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity–heaped</td>
<td>6.5 m³ 8.5 yd³</td>
</tr>
<tr>
<td>Width (with side shrouds)</td>
<td>2700 mm 108.3&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>9739 kg 21,450 lb</td>
</tr>
<tr>
<td>No. of bucket teeth</td>
<td>6</td>
</tr>
<tr>
<td>Recommended uses</td>
<td>General-purpose digging and loading</td>
</tr>
</tbody>
</table>
### PC1250-8

**Equipment:**
- **Boom:** 9.1 m
- **Arm:** 3.4 m
- **Bucket:** 5.0 m³
- **Bucket weight:** 4400 kg
- **Track shoe width:** 700 mm

### Heavy Lift 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

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*

### Unit: kg lb

#### 12.2 m 40'

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>30'</td>
<td>15200</td>
</tr>
<tr>
<td>6.1 m</td>
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<td>15950</td>
</tr>
<tr>
<td>3.0 m</td>
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<tr>
<td>0.0 m</td>
<td>0'</td>
<td>16250</td>
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#### 10.7 m 35'

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<th>A</th>
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<td>0'</td>
<td>16250</td>
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#### 9.1 m 30'

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<tr>
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<tr>
<td>0.0 m</td>
<td>0'</td>
<td>16250</td>
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#### 7.6 m 25'

<table>
<thead>
<tr>
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<td>0.0 m</td>
<td>0'</td>
<td>16250</td>
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#### 6.1 m 20'

<table>
<thead>
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<td>16500</td>
</tr>
<tr>
<td>0.0 m</td>
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#### 4.5 m 15'

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<tr>
<td>0.0 m</td>
<td>0'</td>
<td>16250</td>
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</tbody>
</table>

### PC1250-8

**Equipment:**
- **Boom:** 9.1 m
- **Arm:** 4.5 m
- **Bucket:** 4.0 m³
- **Bucket weight:** 3800 kg
- **Track shoe width:** 700 mm

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*

### Unit: kg lb

#### 12.2 m 40'

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<td>*9300</td>
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<td>20'</td>
<td>*9650</td>
</tr>
<tr>
<td>3.0 m</td>
<td>10'</td>
<td>*10000</td>
</tr>
<tr>
<td>0.0 m</td>
<td>0'</td>
<td>*10400</td>
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#### 10.7 m 35'

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</tr>
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<td>0'</td>
<td>*10400</td>
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#### 9.1 m 30'

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#### 7.6 m 25'

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<th>B</th>
<th>A</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>30'</td>
<td>*9300</td>
</tr>
<tr>
<td>6.1 m</td>
<td>20'</td>
<td>*9650</td>
</tr>
<tr>
<td>3.0 m</td>
<td>10'</td>
<td>*10000</td>
</tr>
<tr>
<td>0.0 m</td>
<td>0'</td>
<td>*10400</td>
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</table>

#### 6.1 m 20'

<table>
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<th>B</th>
<th>A</th>
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</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>30'</td>
<td>*9300</td>
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<tr>
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<td>20'</td>
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</tr>
<tr>
<td>3.0 m</td>
<td>10'</td>
<td>*10000</td>
</tr>
<tr>
<td>0.0 m</td>
<td>0'</td>
<td>*10400</td>
</tr>
</tbody>
</table>

#### 4.5 m 15'

<table>
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<tbody>
<tr>
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<td>*9300</td>
</tr>
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<td>*10000</td>
</tr>
<tr>
<td>0.0 m</td>
<td>0'</td>
<td>*10400</td>
</tr>
</tbody>
</table>

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*
### PC1250-8

- **Equipment:**
  - Boom: 9.1 m 29’10”
  - Arm: 5.7 m 18’8”
  - Bucket: 3.4 m² 4.4 yd²
  - Bucket weight: 3600 kg 7940 lb
  - Track shoe width: 700 mm 28”

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

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*

#### Equipment Specifications

<table>
<thead>
<tr>
<th></th>
<th>Boom</th>
<th>Arm</th>
<th>Bucket</th>
<th>Bucket Weight</th>
<th>Track Shoe Width</th>
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</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>7.8 m</td>
<td>3.4 m³</td>
<td>6.7 m³</td>
<td>6300 kg</td>
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<tr>
<td>10.7 m</td>
<td>25’6”</td>
<td>11’2”</td>
<td>8.8 yd³</td>
<td>13890 lb</td>
<td>28”</td>
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</table>

#### Reach and Hook Height

<table>
<thead>
<tr>
<th>A: Reach from Swing Center</th>
<th>B: Bucket Hook Height</th>
<th>C: Lifting Capacity</th>
<th>Cf: Rating Over Front</th>
<th>Cs: Rating Over Side</th>
<th>Cm: Rating at Maximum Reach</th>
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</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>6.1 m</td>
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<td>-6.1 m</td>
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<tr>
<td>30’</td>
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<td>16’1”</td>
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<td>8’10”</td>
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<td>10’10”</td>
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<td>7’10”</td>
<td>5’10”</td>
<td>2’10”</td>
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<td>7’10”</td>
<td>6’10”</td>
<td>4’10”</td>
<td>2’10”</td>
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</table>

### PC1250P-8

- **Equipment:**
  - Boom: 7.8 m 25’7”
  - Arm: 3.4 m 11’2”
  - Bucket: 6.7 m² 8.8 yd²
  - Bucket weight: 6300 kg 13890 lb
  - Track shoe width: 700 mm 28”

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

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*

#### Equipment Specifications

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<tr>
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<th>Bucket</th>
<th>Bucket Weight</th>
<th>Track Shoe Width</th>
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<td>6’10”</td>
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<td>3’10”</td>
<td>1’10”</td>
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<td>-3.0 m</td>
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</tbody>
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*Unit: kg lb*
Work equipment assembly (Backhoe)

Weight: PC1250: 25.3t 27.9 U.S.ton
PC1250SP: 27.7t 30.5 U.S.ton

PC1250:
- Weight: 30t [15t x 2]
- Weight: 33.1 U.S.ton [16.55 U.S.ton x 2]

PC1250SP:
- Weight: 30.9t [15.45t x 2] (with full length roller guard)
- Weight: 34.1 U.S.ton [17.05 U.S.ton x 2]

Boom

PC1250:
- Weight: 11.2t: 9475 x 2894 x 1474
- Weight: 12.3 U.S.ton: 31'1" x 9'6" x 4'10"

PC1250SP:
- Weight: 11.1t: 8170 x 3095 x 1474
- Weight: 12.2 U.S.ton: 26'10" x 10'2" x 4'10"

Arm

PC1250:
- Weight: 5.9t: 4895 x 1626 x 890
- Weight: 6.5 U.S.ton: 16'1" x 5'4" x 2'11"
- Weight: 6.2t: 4895 x 1626 x 890 (Heavy-duty version)
- Weight: 6.8 U.S.ton: 16'1" x 5'4" x 2'11"

PC1250SP:
- Weight: 6.4t: 4914 x 1683 x 890
- Weight: 7.1 U.S.ton: 16'1" x 5'6" x 2'11"

Bucket

PC1250:
- Weight: 4.3t: 2700 x 2100 x 2050
- Weight: 4.7 U.S.ton: 8'10" x 6'11" x 6'9"
- Weight: 5.5t: 2580 x 2276 x 2250 (Heavy-duty version)
- Weight: 6.1 U.S.ton: 8'6" x 7'6" x 7'5"

PC1250SP:
- Weight: 6.3t: 2527 x 2420 x 2520
- Weight: 6.9 U.S.ton: 8'3" x 7'11" x 8'3"

Arm cylinder

1.5t 1.7 U.S.ton

Boom cylinder

Length: 3950 13'0"

2.4t [1.2t x 2]
2.64 U.S.ton [1.32 U.S.ton x 2]
# Standard Equipment

**Engine and Related Items:**
- Air cleaner, double element, dry
- Variable speed cooling fan, with fan guard
- Engine, Komatsu SAA6D170E-5

**Electrical System:**
- Alternator, 60 amp, 24 V
- Batteries, 220 Ah, 2 x 12 V
- Starting motors, 11kW x 2
- Working lights-2 boom, 2 cab top front, 1 cab bottom, 1 cab RH (Step light with timer)
- Auto decelerator

**Undercarriage:**
- 700 mm 28” double grouser
- 8 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

**Guards and Covers:**
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition wall
- Travel motor guards
- Revolving frame under cover (Heavy-duty)

**Operator Environment:**
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floor mat, 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
- Rearview mirrors, left and right
- Seat, fully adjustable with suspension
- Cab with fixed front window

**Hydraulic Controls:**
- Fully hydraulic, with Electronic Open-Center Load-Sensing 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, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler
- In-line high pressure filters
- Shockless boom control
- Two-mode setting for boom

**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
- Horn, air
- Marks and plates, English
- Paint, Komatsu standard
- Vandalism protection locks
- Wide catwalk
- Large handrails
- One-touch engine oil drainage
- Preventive Maintenance (PM) tune-up service connector
- Travel alarm
- Rear reflector
- Anti-slip plates

# Optional Equipment

**Engine and Related Items:**
- Air cleaner, double element, dry
- Variable speed cooling fan, with fan guard
- Engine, Komatsu SAA6D170E-5

**Electrical System:**
- Alternator, 90 Amp, 24 V
- Batteries, 220 Ah, 2 x 12 V
- Starting motors, 11kW x 2
- Working lights-2 boom, 2 cab top front, 1 cab bottom, 1 cab RH (Step light with timer)
- Auto decelerator

**Undercarriage:**
- 700 mm 28” double grouser
- 8 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

**Guards and Covers:**
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**Operator Environment:**
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floor mat, cigarette lighter and ashtray
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