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

HORSEPOWER
Gross: 514 kW 688 HP / 1800 min⁻¹
Net: 502 kW 672 HP / 1800 min⁻¹

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**

- **Anti-slip Plates**  
For improved foot traction

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

- **Electric Priming Pump**  
Installed.

See page 10.

**Excellent Reliability and Durability**

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

- **XS Bucket Teeth**  
Offers superior penetration and long-term sharpness.

- The fuel reliability is improved by installing **2 Fuel Main-Filters and Water Separator** working against low grade fuel.

- **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.

- **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.

See pages 6, 7.
**ECOLOGY AND ECONOMY FEATURES**

- **High Power Komatsu SAA6D170E-5 Engine**  
  • Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D170E-5 engine provides **502 kW / 672 HP**.
  • Offers high power and low fuel consumption.
  • Equipped with electronically controlled variable speed 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

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 (by ISO 10262 standard) capable with optional bolt-on top guard.

See pages 8, 9.

**ADVANCED MONITOR FEATURES**

- Machine condition can be checked with Equipment Management Monitoring System (EMMS). 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.

**High Power Komatsu SAA6D170E Engine**

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D170E-5 engine provides 502 kW 672 HP. This Komatsu SAA6D170E engine actualizes high-power to low fuel consumption with the optimum fuel injection by electronic heavy duty HPCR (High Pressure Common Rail) fuel injection system.

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

Maximum arm crowed force (ISO): 412 kN 42.0 ton
Maximum bucket digging force (ISO): 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 PC1250-8R 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.

Working Mode Selection

Power and Economy Mode
The PC1250-8R 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>E (E0,E1,E2,E3)</td>
<td>Economy Mode</td>
<td>• Good cycle time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Good fuel economy</td>
</tr>
</tbody>
</table>

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.
**RELIABILITY FEATURES**

**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.

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

**High-pressure In-line Filtration**
The PC1250-8R 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.

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

**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)**

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

**Fuel Main-filters**
The reliability of fuel systems is improved, because fuel main-filters installed remove contamination and sludge contained in fuel.
Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life. Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life XS teeth, durability of bucket is drastically enhanced.

* Koma-hard materials (KVX materials):
  Komatsu 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.

---

Photo may include optional equipment.
The cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

Comfortable Cab
New PC1250-8R’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
PC1250-8R 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).

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.

Comparison of Riding Comfort

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

Vertical direction on graph shows size of vibration.

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

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)

gives visual and audible notice of the excavator’s operation when activated.
Komatsu Designed the PC1250-8R 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 reversed to facilitate cleaning of the cooling unit.

**Reduced Maintenance Costs**
High performance filters are used in the hydraulic circuit and engine. Longer hydraulic oil, hydraulic oil filter, engine oil and engine oil filter element replacement intervals significantly reduce maintenance costs.

**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 EMMS 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.

VHMS (Vehicle Health Monitoring System) (optional)

VHMS controller monitors the health conditions of major components and enables remote analysis of the machine and its operation. This contributes to reduced repair costs and to maintaining maximum availability.
**ENGINE**

Model: Komatsu SAA6D170E-5  
Type: 4-cycle, water-cooled, direct injection  
Aspiration: Turbocharged, aftercooled  
Number of cylinders: 6  
Bore: 170 mm  
Stroke: 6.69”  
Piston displacement: 23.15 ltr  
Governor: All-speed, electronic  
Horsepower:  
SAE J1995: Gross 514 kW  
ISO 9249 / SAE J1349*: Net 502 kW  
Rated rpm: 1800 min⁻¹  
Swing speed: 5.8 min⁻¹  
Swing lock: Oil disc brake  
Swing circle lubrication: Grease-bathed  
Swing reduction: Planetary gear  
Number of selectable working modes: 2  
Type: Open-center load-sensing system  
Aspiration: Turbocharged, aftercooled  
Model: Komatsu SAA6D170E-5  
Maximum flow:  
For implement and travel: 2 x 494 ltr/min  
For swing: 1 x 600 ltr/min  
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:  
Hydraulic cylinders: Number of cylinders—bore x stroke

**HYDRAULIC SYSTEM**

**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  
Gradeability: 154,320 lb  
Maximum travel speed:  
Low: 2.1 km/h  
High: 3.2 km/h  
Service brake: Hydraulic lock  
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

**Swing System**

Driven by: Hydraulic motors  
Swing reduction: Planetary gear  
Swing circle lubrication: Grease-bathed  
Swing lock: Oil disc brake  
Swing speed: 5.8 min⁻¹

**Coolant and Lubricant**

**Capacity (Refilling)**

Fuel tank: 1360 ltr  
Radiator: 142 ltr  
Engine: 86 ltr  
Final drive, each side: 21 ltr  
Swing drive: 20.0 x 2 ltr  
Hydraulic tank: 670 ltr  
PTO: 13.5 ltr

**Operating Weight (Approximate)**

**Backhoe**

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

PC1250S-8R: Operating weight, including 7800 mm 25’7” boom, 3400 mm 11’2” 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 17'5” boom, 3800 mm 12’6” arm, 6.5 m³ 6.5 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.
HYDRAULIC EXCAVATOR

PC1250-8R

WORKING RANGE

RECOMMENDED BUCKET CAPACITIES

| BACKHOE BUCKET, ARM, AND BOOM COMBINATION |

<table>
<thead>
<tr>
<th>BUCKET CAPACITY (HEAPED)</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE, PCSA</td>
<td>m³</td>
</tr>
<tr>
<td>CECE</td>
<td>m³</td>
</tr>
<tr>
<td>Without Side cutters or shrouds</td>
<td>mm</td>
</tr>
<tr>
<td>With Side cutters or shrouds</td>
<td>mm</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>kg</td>
</tr>
<tr>
<td>(with side cutters)</td>
<td></td>
</tr>
<tr>
<td>ARM LENGTH</td>
<td>m</td>
</tr>
</tbody>
</table>

PC1250-8 (use with 9.1 m boom)

<table>
<thead>
<tr>
<th>SAE, PCSA</th>
<th>3.4</th>
<th>4.0</th>
<th>5.0</th>
<th>5.2</th>
<th>6.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECE</td>
<td>3.0</td>
<td>3.5</td>
<td>4.3</td>
<td>4.5</td>
<td>5.9</td>
</tr>
<tr>
<td>Without Side cutters or shrouds</td>
<td>1500</td>
<td>1710</td>
<td>2050</td>
<td>2050</td>
<td>2280</td>
</tr>
<tr>
<td>With Side cutters or shrouds</td>
<td>1670</td>
<td>1800</td>
<td>2220</td>
<td>2110</td>
<td>2340</td>
</tr>
<tr>
<td>WEIGHT (with side cutters)</td>
<td>3550</td>
<td>3620</td>
<td>4370</td>
<td>5780</td>
<td>6500</td>
</tr>
<tr>
<td>ARM LENGTH</td>
<td>3.4</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
</tr>
</tbody>
</table>

PC1250SP-8 (use with 7.8 m boom)

<table>
<thead>
<tr>
<th>SAE, PCSA</th>
<th>6.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECE</td>
<td>5.9</td>
</tr>
<tr>
<td>Without Side cutters or shrouds</td>
<td>2280</td>
</tr>
<tr>
<td>With Side cutters or shrouds</td>
<td>2340</td>
</tr>
<tr>
<td>WEIGHT (with side cutters)</td>
<td>6500</td>
</tr>
<tr>
<td>ARM LENGTH</td>
<td>3.4</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 1.8 t/m³ 3.000 lb/yd³
- General purpose use, density up to 1.5 t/m³ 2.500 lb/yd³
- Not useable
LOADING SHOVEL Dimensions

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>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<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>

<table>
<thead>
<tr>
<th>Working Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of bucket</td>
</tr>
<tr>
<td>Capacity–heaped</td>
</tr>
<tr>
<td>A Max. cutting height</td>
</tr>
<tr>
<td>B Max. dumping height</td>
</tr>
<tr>
<td>C Max. digging depth</td>
</tr>
<tr>
<td>D Max. digging reach</td>
</tr>
<tr>
<td>E Max. digging reach at ground level</td>
</tr>
<tr>
<td>F Level crowding distance</td>
</tr>
<tr>
<td>G Min. crowd distance</td>
</tr>
<tr>
<td>Bucket digging force</td>
</tr>
<tr>
<td>Arm crowd force</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bucket Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of bucket</td>
</tr>
<tr>
<td>Capacity–heaped</td>
</tr>
<tr>
<td>Width (with side shrouds)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>No. of bucket teeth</td>
</tr>
<tr>
<td>Recommended uses</td>
</tr>
</tbody>
</table>
### PC1250-8R

**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
- **Track shoe width:** 700 mm 28"
- **Lifting capacity:**
  - **Boom reach from swing center (A):**
  - **Bucket hook height (B):**
  - **Lifting capacity (C):**
  - **Rating over front (Cf):**
  - **Rating over side (Cs):**
  - **Rating at maximum reach:**

**Unit:** kg lb

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>30'</td>
<td>*15200</td>
<td>*15200</td>
<td>*18000</td>
<td>*18000</td>
<td>*18000</td>
<td>*18000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 m</td>
<td>20'</td>
<td>*15950</td>
<td>*13200</td>
<td>*20950</td>
<td>*17400</td>
<td>*22950</td>
<td>*22950</td>
<td>*27900</td>
<td>*27900</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0 m</td>
<td>0'</td>
<td>16500</td>
<td>11650</td>
<td>16400</td>
<td>12500</td>
<td>20850</td>
<td>16100</td>
<td>27000</td>
<td>20850</td>
<td>34950</td>
<td>27650</td>
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<tr>
<td>0.0 m</td>
<td>16250</td>
<td>12300</td>
<td>19500</td>
<td>15200</td>
<td>24200</td>
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<td>34400</td>
<td>26100</td>
<td></td>
<td></td>
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<tr>
<td>-3.0 m</td>
<td>-10'</td>
<td>19500</td>
<td>15200</td>
<td>20000</td>
<td>15200</td>
<td>25600</td>
<td>19500</td>
<td>34600</td>
<td>26300</td>
<td>*43850</td>
<td>39250</td>
<td>*39250</td>
<td></td>
</tr>
<tr>
<td>-6.1 m</td>
<td>-20'</td>
<td>*23500</td>
<td>*23500</td>
<td>*25400</td>
<td>*25400</td>
<td>*32500</td>
<td>*32500</td>
<td>*39250</td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Unit:** kg lb

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
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<th>Cf</th>
<th>Cs</th>
<th>Cf</th>
<th>Cs</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>30'</td>
<td>*9300</td>
<td>*9300</td>
<td>*15500</td>
<td>*15500</td>
<td>*18000</td>
<td>*18000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 m</td>
<td>20'</td>
<td>*9650</td>
<td>*9650</td>
<td>*16650</td>
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*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
**LIFTING CAPACITY**

**PC1250-8R**

**Equipment:**
- **Boom:** 9.1 m 29'10"
- **Arm:** 5.7 m 18'8"
- **Bucket:** 3.4 m³ 4.4 yd³
- **Bucket weight:** 3600 kg 7,940 lb
- **Track shoe width:** 700 mm 28"

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<tr>
<th>A</th>
<th>B</th>
<th>C</th>
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**A Maximum**

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<th>10.7 m 35'</th>
<th>9.1 m 30'</th>
<th>7.6 m 25'</th>
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</table>

**B**

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

**Ratings**

- Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

**PC1250SP-8R**

**Equipment:**
- **Boom:** 7.8 m 25'7"
- **Arm:** 3.4 m 11'2"
- **Bucket:** 6300 kg 13,890 lb
- **Track shoe width:** 700 mm 28"

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<thead>
<tr>
<th>A</th>
<th>B</th>
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**A Maximum**

<table>
<thead>
<tr>
<th>12.2 m 40'</th>
<th>10.7 m 35'</th>
<th>9.1 m 30'</th>
<th>7.6 m 25'</th>
<th>6.1 m 20'</th>
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</table>

**B**

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

**Ratings**

- Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

---

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
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

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### Work equipment assembly (Backhoe)

**Weight:**
- PC1250-8R : 25.3t 27.9 U.S.ton
- PC1250SP-8R : 27.7t 30.5 U.S.ton

#### Boom

- PC1250-8R : 11.2t : 9475 x 2894 x 1474 (12.3 U.S.ton : 31'1" x 9'6" x 4'10"
- PC1250SP-8R : 11.1t : 8170 x 3095 x 1474 (12.2 U.S.ton : 26'10" x 10'2" x 4'10"

#### Arm

- PC1250-8R : 5.9t : 4895 x 1626 x 890 (6.5 U.S.ton : 16'1" x 5'4" x 2'11"
- PC1250SP-8R : 6.4t : 4914 x 1683 x 890 (7.1 U.S.ton : 16'1" x 5'6" x 2'11"

#### Bucket

- PC1250-8R : 4.3t : 2700 x 2100 x 2050 (4.7 U.S.ton : 8'10" x 6'11" x 6'9"
- PC1250SP-8R : 6.3t : 2527 x 2420 x 2520 (6.9 U.S.ton : 8'3" x 7'11" x 8'3"

#### Arm cylinder

- 1.5t 1.7 U.S.ton

#### Boom cylinder

- 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 machine cab bottom, 1 cab LH (Stop light with timer)
- Auto deaccelerator

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 (cooler 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 (cooler, 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 (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
- 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
- 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 handrails
- One-touch engine oil drainage
- PM tune-up service connector
- Travel alarm
- Rear reflector
- Slip-resistant plates

OPTIONS EQUIPMENT

- Alternator, 90 Amp, 24 V
- Arms (Backhoe):
  - 3400mm 11’2” arm assembly
  - 3400mm 11’2” HD arm assembly
  - 3400mm 11’2” SP arm assembly
  - 4500mm 14’9” arm assembly
  - 4500mm 14’9” HD arm assembly
  - 5700mm 18’8” arm assembly
- Arms (Loading shovel):
  - 3800mm 12’6” arm assembly
- Auto air conditioner
- Automatic grease system, Lincoln 18 ltr
- Booms (Backhoe):
  - 7800mm 25’7” SP boom assembly
  - 9100mm 29’10” boom assembly
- Booms (Loading shovel):
  - 5300mm 17’5” boom assembly
- Cab with pull-up type front window
- Communication system for VHMS (Orbcomm)
- General tool kit
- Grease gun, air pump
- Heater
- Interconnected horn and flashing light
- Radio AM/FM
- Seat belt 78 mm 3”
- Shoes:
  - 1000 mm 39.4” double grouser
- Spare parts for first service
- Track roller guard (full length)
- Track frame undercover (center)
- Vehicle Health Monitoring System (VHMS)