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
Loading shovel: 110900 kg

BUCKET CAPACITY
Backhoe: 3.40 – 6.70 m³
Loading shovel: 6.50 – 7.20 m³

Photos may include optional equipment.
Photos may include optional equipment.
HYDRAULIC EXCAVATOR PC1250-8R

**PRODUCTIVITY, ECOLOGY & ECONOMY**
- High Power Komatsu SAA6D170E-5 Engine
- Economy Mode Four-level Setting
- Low Ambient Noise
- Working Mode Selection
- Heavy Lift Mode
- Swing Priority Mode
- Large Digging Force
- High Work Equipment Speed
- Large Drawbar Pull and Steering Force
- Two-mode Setting for Boom
- Shockless Boom Control

**RELIABILITY & DURABILITY**
- Boom Foot Hoses
- O-ring Face Seals
- Removed Water and Contamination in Fuel
- High-pressure In-line Filtration
- Highly Reliable Electronic Devices
- XS Bucket Teeth

**COMFORT & SAFETY**
- Large Comfortable Cab
- OPG Top Guard Level 2 (ISO 10262)

**KOMTRAX**
- Liquid Crystal Display (LCD) Monitor
- KOMTRAX Plus (Optional)

**MAINTENANCE**
- Easy Checking and Maintenance of Engine
- Easy Cleaning of Cooling Unit
- Large Handrail, Step and Catwalk
- Equipment Management Monitoring System

**PC1250-8R BACKHOE**

<table>
<thead>
<tr>
<th>HORSEPOWER</th>
<th>PC1250-8R BACKHOE</th>
<th>PC1250-8R LOADING SHOVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross</td>
<td>514 kW 688 HP / 1800 min⁻¹</td>
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</tr>
<tr>
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<td>502 kW 672 HP / 1800 min⁻¹</td>
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</tr>
<tr>
<td>OPERATING WEIGHT</td>
<td>106500 – 110700 kg</td>
<td>110900 kg</td>
</tr>
<tr>
<td>BUCKET CAPACITY</td>
<td>3.40 – 6.70 m³</td>
<td>6.50 – 7.20 m³</td>
</tr>
</tbody>
</table>

3
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-5 Engine

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

Electronically Controlled Variable Speed Fan

Contributes to Low Fuel Consumption and Low Noise

The electronic control system sets the revolution 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 revolution.

Lower and Economical Fuel Consumption Using Economy Mode

Enables operator to set the Economy mode to four levels according to working conditions so that production requirement is achieved at the lowest fuel consumption.

Low Ambient Noise

Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan and low-noise muffler.
Auto Deceleration

Auto deceleration system is equipped to reduce fuel consumption and operating noise.

Working Modes Selectable

P and E modes established work modes are further improved. **P mode** – Power or work priority mode has low fuel consumption, but fast equipment speed and maximum production and power are maintained. **E mode** – Economy or fuel saving mode further reduces fuel consumption, but maintains the P-mode-like working equipment speed for light duty work.

You can select Power or Economy modes using a one-touch button on the monitor panel depending on the workload.

Heavy Lift Mode

Gives 10% more lifting force when needed for handling rock or heavy lifting applications.

Swing Priority Mode

The swing priority mode 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.

<table>
<thead>
<tr>
<th>Selection</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ON</strong></td>
<td>Oil flow to the swing motor is increased. 180° loading operations are most efficient.</td>
</tr>
<tr>
<td><strong>OFF</strong></td>
<td>Oil flow to the boom is increased. 90° loading operations are most efficient.</td>
</tr>
</tbody>
</table>

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):

\[
412 \text{ kN (42.0 t)}
\]

**Maximum bucket digging force** (ISO 6015):

\[
479 \text{ kN (48.8 t)}
\]

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 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 reduce 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.
RELIABILITY & 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.

**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.

**Sturdy Undercarriage**

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

**Frame Structure**

The revolving frame mount and center frame mount on the swing circle are no welding structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

**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.

**Metal Guard Rings**

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

**Track roller guard (Full length) (Optional)**

**Sealed Connectors**

Sealed connectors seal tight and have higher reliability.

**Fuel Pre-filter (With Water Separator)**

Removes water and contaminants from fuel to enhance the fuel system reliability.

**Heat-resistant Wiring**

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

**Additional Water Separator**

Removes water from the fuel and improves the reliability of fuel systems.

**Circuit Breaker**

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

**High Efficiency Fuel Filter**

Fuel system reliability is even better with high efficiency fuel filter.
**Strengthened Quarry Bucket Provides Outstanding Wear-resistance**

The PC1250-8R 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 (180 kg/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 for superior digging performance
- Long-term high sharpness
- Great penetration performance
- Hammerless, safe, and easy tooth replacement (Tooth replacement time: Half of the conventional machine.)

---

**Photo may include optional equipment.**
COMFORT

The newly-designed cab is highly rigid and has excellent sound absorption. Improvements in noise source reduction combined with the use of a low noise engine, hydraulic equipment, and optional air conditioner (A/C) allows the operator to work in quiet operating condition.

Low Noise Design Cab

Newly-designed wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational position of the armrest and the console. The reclining seat further enables you to place it into the fully flat state with the headrest attached.

Pressurized Cab

Optional A/C, air filter and a higher internal air pressure minimize external dust from entering the cab.
Low Vibration with Cab Damper Mounting

PC1250-8R uses viscous damper mounts for the cab that incorporates longer stroke and the addition of a spring. The cab damper mounting combined with high rigidity deck aids vibration reduction at the operator’s seat.

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.

Automatic A/C (Optional)

Enables you to easily and precisely set cab atmosphere with the instruments on the LCD. The automatic A/C uses a bi-level control function that keeps the operator’s head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year. Defroster function keeps the front glass clear.

Safety

Step Light with Timer

Provides light for about one minute to allow the operator to get off the machine safely.

Interconnected Horn and Flashing Light (Optional)

Gives visual and audible notice of the excavator’s operation when activated.

Slip-resistant Plates

Spiked plates on working areas provide slip-resistant performance.

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.

Cab Equipments

- Defroster (Optional)
- Cab Frame Mounted Wiper
- Bottle Holder and Magazine Rack
KOMTRAX Plus (Optional)

KOMTRAX Plus system allows us to monitor the health conditions of major components and to analyze the machine. KOMTRAX Plus controller monitors and stores all data received from the controllers and various additional sensors on the major components. This way, it’s possible to record the evolution of the machine’s health condition. This data can be downloaded via a portable computer or via satellite communication (Optional). In both cases, customers and Komatsu specialists can analyze this downloaded data and follow up trends in the machine’s condition. When using the optional satellite communications, the Komatsu specialist can inform you whenever an abnormal condition occurs. This way, repair and maintenance costs can be optimized, and maximum machine availability can be maintained.
**MAINTENANCE**

**Easy Checking and Maintenance of Engine**

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**

Easier, safer operator cab access and maintenance checks.

**Washable Cab Floormat**

Cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

**One-touch Drain Cock**

Easier, cleaner engine oil changes.

**Easy Cleaning of Cooling Unit**

Reverse-rotation function of the hydraulic driven fan simplifies cleaning out the cooling unit. In addition, this function contributes to reducing warm-up run time in low temperature and discharging hot air from the engine room to keep appropriate heat balance.

**Convenient Utility Space to the Machine Cab**

Utility space provides great convenience to store tools, spare parts, etc.

**Air-operated Greasing (Optional)**

Lubrication indicator confirms greasing is being performed.
- Hose reel to reach all grease points easily.
- PC1250-8R grease points are grouped for easy access, ensuring complete maintenance.

**Long-life Oil, Filter**

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Replacement Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine oil &amp; Engine oil filter</td>
<td>every 500 hours</td>
</tr>
<tr>
<td>Hydraulic oil</td>
<td>every 5000 hours</td>
</tr>
<tr>
<td>Hydraulic oil filter</td>
<td>every 1000 hours</td>
</tr>
</tbody>
</table>

**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.
KOMATSU Brand Bucket

Me Bucket Feature
- Low resistant excavation
- High productivity
- High durability
- High fuel efficiency

Category and Feature

<table>
<thead>
<tr>
<th>Category</th>
<th>Load / Wear / Soil (Application)</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Heavy Duty</strong></td>
<td>Load: Machine power is high during majority of the work. Wear: Material is abrasive. Light scratch marks can be seen at the bucket. Soil: Limestone, shot rock, compact mix of sand, gravel and clay</td>
<td></td>
</tr>
<tr>
<td><strong>General Purpose</strong></td>
<td>Load: Machine power is mostly medium, but occasionally high. Bucket movements are smooth with minor shock load. Bucket penetrates easily. Wear: Material is lightly abrasive. Some sand may be medium abrasive. Soil: Mostly loose sand, gravel and finely broken materials</td>
<td></td>
</tr>
</tbody>
</table>

Bucket Line-up

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Capacity (m³)</th>
<th>Width*1 (mm)</th>
<th>Weight*2 (kg)</th>
<th>Tooth Quantity</th>
<th>Boom + Arm (m)</th>
<th>Tooth Type</th>
<th>Photo No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(ISO 7451)</td>
<td></td>
<td></td>
<td></td>
<td>STD 9.1+3.4</td>
<td>SP 9.1+4.5</td>
<td>7.8+3.4</td>
</tr>
<tr>
<td>Conventional</td>
<td>3.40</td>
<td>1670&lt;1510</td>
<td>3550</td>
<td>4</td>
<td>—</td>
<td>▲</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>4.00</td>
<td>1790&lt;1880</td>
<td>3820</td>
<td>4</td>
<td>▲</td>
<td>▲</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>5.00</td>
<td>2130&lt;2220</td>
<td>4370</td>
<td>5</td>
<td>—</td>
<td>□</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>5.20</td>
<td>2110&lt;2050</td>
<td>5780</td>
<td>5</td>
<td>—</td>
<td>□</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>6.70</td>
<td>2300&lt;2280</td>
<td>6500</td>
<td>6</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

*1 With side cutter or side shrouds, < > without side cutter or side shrouds, [ ] Bucket lip width
*2 With sidecutters
▲: General purpose use, density up to 2.1 t/m³ □: General purpose use, density up to 1.8 t/m³ ○: General purpose use, density up to 1.5 t/m³ ✓: Selectable
PC1250 SP spec. is equipped with a large bucket. It increases the efficiency of loading a dump truck with large amounts of loose materials such as blasted rock.

**OPTIONS**

- **Cab front full height guard level 2** (ISO 10262)
- **Interconnected horn and flashing light**
- **Strengthened track frame undercover**
Komatsu Total Support

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

**Fleet recommendation**
Komatsu Distributor can study the customer’s job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.

**Technical support**
Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.
- Preventive Maintenance (PM) clinic
- Oil & Wear analysis program
- Undercarriage inspection service, etc.

**Product support**
Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

**Parts availability**
Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

**Repair & maintenance service**
Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

**Komatsu Reman (Remanufactured) components**
Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu’s customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).
### ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>Komatsu SAA6D170E-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4-cycle, water-cooled, direct injection</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged, aftercooled, cooled EGR</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Bore</td>
<td>170 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>170 mm</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>23.15 L</td>
</tr>
<tr>
<td>Governor</td>
<td>All-speed, electronic</td>
</tr>
</tbody>
</table>

**Horsepower:**
- **SAE J1995**
  - Gross 514 kW 688 HP
- **ISO 7451**
  - Net 502 kW 672 HP

**Rated rpm:** 1800 min⁻¹

**Fan drive type:** Hydraulic

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

### 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 L/min
- For swing: 1 x 600 L/min

**Sub-pump for control circuit:** Gear pump

**Hydraulic motors:**
- Swing: 2 x axial piston motors with swing holding brake
- Travel: 2 x axial piston motors with parking brake

**Relief valve setting:**
- Implement circuits: 31.4 MPa 320 kg/cm²
- Loading shovel: 31.4 MPa 320 kg/cm²
- Travel circuit: 34.3 MPa 350 kg/cm²
- Swing circuit: 27.5 MPa 280 kg/cm²
- Pilot circuit: 2.9 MPa 30 kg/cm²

**Hydraulic cylinders:**
- Number of cylinders—bore x stroke:
  - **Backhoe:** 2 – 225 mm x 2390 mm
  - **Arm:** 1 – 250 mm x 2435 mm
  - **Bucket:**
    - Std: 2 – 160 mm x 1825 mm
    - SP: 2 – 160 mm x 1950 mm
- **Loading shovel:**
  - Boom: 2 – 225 mm x 1960 mm
  - Arm: 2 – 185 mm x 1765 mm
  - Bucket: 2 – 200 mm x 1700 mm
  - Bottom dump: 2 – 160 mm x 435 mm

### 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

### SWING SYSTEM

**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

**Gradeability:** 70%

**Maximum travel speed:**
- Low: 2.1 km/h
- High: 3.2 km/h

**Service brake:** Hydraulic lock

### UNDERCARRIAGE

- **Center frame:** H-leg frame
- **Track frame:** Box-section
- **Seal of track:** Sealed
- **Track adjuster:** Hydraulic
- **No. of shoes (Each side):** .48
- **No. of carrier rollers (Each side):** .3
- **No. of track rollers (Each side):** .8

### COOLANT AND LUBRICANT CAPACITY (REFILLING)

- **Fuel tank:** 1360 L
- **Radiator:** 142 L
- **Engine:** 86 L
- **Final drive (Each side):** 21 L
- **Swing drive:** 20 x 2 L
- **Hydraulic tank:** 670 L
- **Power Take Off (PTO):** 13.5 L

### OPERATING WEIGHT (APPROXIMATE)

**BACKHOE**
- **PC1250-8R:** Operating weight including 9100 mm boom, 3400 mm arm, ISO 7451 heaped 5.00 m³ backhoe bucket, operator, lubricants, coolant, full fuel tank, and standard equipment.
- **PC1250SP-8R:** Operating weight including 7800 mm boom, 3400 mm arm, ISO 7451 heaped 6.70 m³ backhoe bucket, full length roller guard, operator, lubricants, coolant, full fuel tank, and standard equipment.

<table>
<thead>
<tr>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1250-8R</td>
<td>PC1250SP-8R</td>
</tr>
<tr>
<td>113500 kg</td>
<td>144 kPa 1.47 kg/cm²</td>
</tr>
<tr>
<td>116600 kg</td>
<td>149 kPa 1.52 kg/cm²</td>
</tr>
<tr>
<td>115800 kg</td>
<td>103 kPa 1.05 kg/cm²</td>
</tr>
<tr>
<td>113800 kg</td>
<td>—</td>
</tr>
</tbody>
</table>

**LOADING SHOVEL**
- Operating weight including 5300 mm boom, 3800 mm arm, ISO 7451 heaped 6.50 m³ bucket, operator, lubricants, coolant, full fuel tank, and standard equipment.

<table>
<thead>
<tr>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1250-8R</td>
<td></td>
</tr>
<tr>
<td>115800 kg</td>
<td>148 kPa 1.51 kg/cm²</td>
</tr>
</tbody>
</table>
**BACKHOE DIMENSIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>PC1250-8R</th>
<th>PC1250SP-8R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boom Length</strong></td>
<td>9100 mm</td>
<td>7800 mm</td>
</tr>
<tr>
<td><strong>Arm Length</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Overall height</td>
<td>6040 mm</td>
<td>6460 mm</td>
</tr>
<tr>
<td>B Overall length</td>
<td>16020 mm</td>
<td>16050 mm</td>
</tr>
</tbody>
</table>

**BACKHOE WORKING RANGE**

<table>
<thead>
<tr>
<th>Model</th>
<th>PC1250-8R</th>
<th>PC1250SP-8R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boom Length</strong></td>
<td>9100 mm</td>
<td>7800 mm</td>
</tr>
<tr>
<td><strong>Arm Length</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Max. digging height</td>
<td>13400 mm</td>
<td>13490 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>8680 mm</td>
<td>9000 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>9350 mm</td>
<td>10440 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>7610 mm</td>
<td>8490 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 2440 mm level</td>
<td>9220 mm</td>
<td>10340 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>15350 mm</td>
<td>16340 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>15000 mm</td>
<td>16000 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>7965 mm</td>
<td>7980 mm</td>
</tr>
</tbody>
</table>

**ISO 6015**

<table>
<thead>
<tr>
<th>Model</th>
<th>PC1250-8R</th>
<th>PC1250SP-8R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boom Length</strong></td>
<td>9100 mm</td>
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<td><strong>Arm Length</strong></td>
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<td>15350 mm</td>
<td>16340 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>15000 mm</td>
<td>16000 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>7965 mm</td>
<td>7980 mm</td>
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</table>

**SAE J1179**

<table>
<thead>
<tr>
<th>Model</th>
<th>PC1250-8R</th>
<th>PC1250SP-8R</th>
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<tbody>
<tr>
<td><strong>Boom Length</strong></td>
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<tr>
<td><strong>Arm Length</strong></td>
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<tr>
<td>A Max. digging height</td>
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<td>B Max. dumping height</td>
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<tr>
<td>C Max. digging depth</td>
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<tr>
<td>D Max. vertical wall digging depth</td>
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<td>E Max. digging depth of cut for 2440 mm level</td>
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</tr>
<tr>
<td>H Min. swing radius</td>
<td>7965 mm</td>
<td>7980 mm</td>
</tr>
</tbody>
</table>

**UNIT: mm**
LOADING SHOVEL DIMENSIONS

Type of Bucket | Bottom Dump
---|---
Capacity-heaped | 6.50 m³
A | Overall height 6200 mm
B | Overall length 10940 mm

LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION

<table>
<thead>
<tr>
<th>Type of Bucket</th>
<th>Bottom Dump</th>
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<tr>
<td>Capacity-heaped</td>
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<tr>
<td>A</td>
<td>Max. cutting height 12330 mm</td>
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<tr>
<td>B</td>
<td>Max. dumping height 8700 mm</td>
</tr>
<tr>
<td>C</td>
<td>Max. digging depth 3650 mm</td>
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<td>D</td>
<td>Max. digging reach 11400 mm</td>
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<td>E</td>
<td>Max. digging reach at ground level 10900 mm</td>
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<tr>
<td>F</td>
<td>Level crowding distance 4480 mm</td>
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<tr>
<td>G</td>
<td>Min. crowd distance 6130 mm</td>
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Bucket digging force 579 kN 59000 kg
Arm crowding force 608 kN 62000 kg

Bucket Selection

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<td>6.50 m³ 7.20 m³</td>
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<tr>
<td>Weight</td>
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<tr>
<td>No. of Bucket Teeth</td>
<td>6 6</td>
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<tr>
<td>Recommended Uses</td>
<td>General-purpose digging and loading Light-duty excavation and loading</td>
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**LIFTING CAPACITY**

### HEAVY LIFT "ON"

**PC1250-8R**
- **Boom**: 9100 mm
- **Arm**: 3400 mm
- **Bucket**: 5.00 m³ ISO 7451 heaped
- **Bucket weight**: 4400 kg
- **Shoe**: 700 mm double grouser

#### MAX

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>MAX</th>
<th>12.2 m</th>
<th>10.7 m</th>
<th>9.1 m</th>
<th>7.6 m</th>
<th>6.1 m</th>
<th>4.6 m</th>
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### HEAVY LIFT "OFF"

**PC1250-8R**
- **Boom**: 9100 mm
- **Arm**: 4500 mm
- **Bucket**: 4.00 m³ ISO 7451 heaped
- **Bucket weight**: 3800 kg
- **Shoe**: 700 mm double grouser

#### MAX

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>MAX</th>
<th>12.2 m</th>
<th>10.7 m</th>
<th>9.1 m</th>
<th>7.6 m</th>
<th>6.1 m</th>
<th>4.6 m</th>
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* 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.

### HEAVY LIFT "ON"

**PC1250-8R**
- **Boom**: 9100 mm
- **Arm**: 3400 mm
- **Bucket**: 5.00 m³ ISO 7451 heaped
- **Bucket weight**: 4400 kg
- **Shoe**: 700 mm double grouser

#### MAX

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>MAX</th>
<th>12.2 m</th>
<th>10.7 m</th>
<th>9.1 m</th>
<th>7.6 m</th>
<th>6.1 m</th>
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</table>

### HEAVY LIFT "OFF"

**PC1250-8R**
- **Boom**: 9100 mm
- **Arm**: 4500 mm
- **Bucket**: 4.00 m³ ISO 7451 heaped
- **Bucket weight**: 3800 kg
- **Shoe**: 700 mm double grouser

#### MAX

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>MAX</th>
<th>12.2 m</th>
<th>10.7 m</th>
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</tbody>
</table>

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**HYDRAULIC EXCAVATOR**

**PC1250-8R**

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

### HEAVY LIFT "ON"

<table>
<thead>
<tr>
<th>PC1250-8R</th>
<th>Boom: 9100 mm</th>
<th>Arm: 5700 mm</th>
<th>Bucket: 3.40 m³ ISO 7451 heaped</th>
<th>Bucket weight: 3600 kg</th>
<th>Shoe: 700 mm double grouser</th>
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</thead>
<tbody>
<tr>
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<td><strong>A</strong></td>
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<td><strong>Cs</strong></td>
<td><strong>Cf</strong></td>
</tr>
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### HEAVY LIFT "OFF"

<table>
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<tr>
<th>PC1250-8R</th>
<th>Boom: 9100 mm</th>
<th>Arm: 5700 mm</th>
<th>Bucket: 3.40 m³ ISO 7451 heaped</th>
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<tr>
<td><strong>B</strong></td>
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<td><strong>Cs</strong></td>
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</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.

---

**PC1250SP-8R**

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

### HEAVY LIFT "ON"

<table>
<thead>
<tr>
<th>PC1250SP-8R</th>
<th>Boom: 7800 mm</th>
<th>Arm: 3400 mm</th>
<th>Bucket: 6.70 m³ ISO 7451 heaped</th>
<th>Bucket weight: 6500 kg</th>
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<tr>
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<td><strong>A</strong></td>
<td>MAX</td>
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### HEAVY LIFT "OFF"

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<th>Boom: 7800 mm</th>
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<tr>
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<td><strong>Cf</strong></td>
<td><strong>Cs</strong></td>
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<td>*20500 kg</td>
<td>19550 kg</td>
<td>*26450 kg</td>
</tr>
<tr>
<td>−6.1 m</td>
<td></td>
<td></td>
<td>*20500 kg</td>
<td>19550 kg</td>
<td>*26450 kg</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.
Transportation volume (length x height x width)

Specs shown include the following equipment:
Backhoe: boom 9100 mm, arm 3400 mm, bucket 5.00 m³, shoes 700 mm double grouser

**Work equipment assembly (Backhoe)**

- **Weight:** PC1250-8R: 25.6 t, PC1250SP-8R: 27.9 t

  **Boom**
  - PC1250-8R: 11.2 t: 9475 x 2894 x 1474 mm
  - PC1250SP-8R: 11.1 t: 8170 x 3095 x 1474 mm

  **Arm**
  - PC1250-8R: 5.9 t: 4895 x 1626 x 890 mm
  - 6.2 t: 4895 x 1626 x 890 mm (Heavy-duty version)
  - PC1250SP-8R: 6.4 t: 4914 x 1683 x 890 mm

  **Bucket**
  - PC1250-8R: 4.4 t: 2700 x 2100 x 2050 mm
  - 5.8 t: 2580 x 2276 x 2250 mm (Heavy-duty version)
  - PC1250SP-8R: 6.5 t: 2527 x 2420 x 2520 mm

  **Arm cylinder**
  - Weight: 1.5 t, Length: 3950 mm

  **Boom cylinder**
  - Weight: 2.4 t [1.2 t x 2], Length: 3810 mm

**Upper structure**

- **Width:** 3490 mm
- **Weight:** 36.8 t

**Undercarriage**

- **Weight:** 30 t [15 t x 2]
- **Weight:** 30.9 t [15.45 t x 2] (With full length roller guard)

**Others**

- **Weight:** 18.5 t

- **Dimensions:**
  - 885 mm
  - 3470 mm
  - 1830 mm
  - 1915 mm
  - 100 mm
  - 900 mm
  - 400 mm
  - 845 mm
  - 620 mm
  - 3155 mm
  - 885 mm
HYDRAULIC EXCAVATOR PC1250-8R

**ENGINE AND RELATED ITEMS:**
- Air cleaner, double element, dry
- Engine, Komatsu SAA6D170E-5
- Variable speed cooling fan, with fan guard

**ELECTRICAL SYSTEM:**
- Alternator, 24 V/60 A
- Auto decelerator
- Batteries, 2 x 12 V/ 220 Ah
- Starting motors, 2 x 11 kW
- Working lights: 2 on boom, 1 at right front, 2 on cab, 1 cab L.H. (Step light with timer)

**UNDERCARRIAGE:**
- 8 track/3 carrier rollers (Each side)
- Hydraulic track adjusters (Each side)
- Rock protectors
- Sealed track
- Track guiding guard (Each side)
- Track shoe: —700 mm double grouser

**GUARDS AND COVERS:**
- Dust-proof net for radiator and oil cooler
- OPG top guard level 2 (ISO 10262)
- Pump/engine room partition wall
- Revolving frame under cover (Heavy-duty)
- Travel motor guards

**OPERATOR ENVIRONMENT:**
- Cab with fixed front window
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floormat, cigarette lighter and ashtray

**HYDRAULIC CONTROLS:**
- Control levers and pedals for steering and travel with Pressure Proportional Control (PPC) system
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Fully hydraulic, with Electronic Open-Center Load-Sensing and engine speed sensing (Pump and engine mutual control system)
- In-line high pressure filters
- Oil cooler
- One axial piston motor per track for travel with counter balance valve
- One gear pump for control circuit
- Shockless boom control
- Three control valves, 5+4+4 spools (Boom, arm, bucket, swing, and travel)
- Three variable capacity piston pumps (2 main, 1 swing)
- Two axial piston motors for swing with single-stage relief valve
- Two-mode settings 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
- Counterweight, 18000 kg
- Horn, air
- Large handrails
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- Preventive Maintenance (PM) tune-up service connector
- Rear reflector
- Slip-resistant plates
- Travel alarm
- Vandalism protection locks
- Water separator
- Wide catwalk

**STANDARD EQUIPMENT**

**OPTIONAL EQUIPMENT**
- Alternator, 24 V/90 A
- Arms (Backhoe):
  - 3400 mm arm assembly
  - 3400 mm HD arm assembly
  - 4500 mm arm assembly
  - 4500 mm HD arm assembly
  - 5700 mm arm assembly
- Arms (Loading shovel):
  - 3800 mm arm assembly
  - Auto A/C
- Automatic grease system, Lincoln 18 L
- Booms (Backhoe):
  - 7800 mm SP boom assembly
  - 9100 mm boom assembly
- Booms (Loading shovel):
  - 5300 mm boom assembly
- Cab front guard level 2 (ISO 10262)
- Cab with pull-up type front window
- Communication system for KOMTRAX Plus (Orbcomm)
- Coolant heater
- General tool kit
- Grease gun, air pump
- Interconnected horn and flashing light
- KOMTRAX Plus
- Radio AM/FM
- Seat belt 78 mm
- Spare parts for first service
- Track frame undercover (Center)
- Track roller guard (Full length)
- Track shoe: —1000 mm double grouser

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