Productivity Features

- **High Work Equipment Speed**
  Increased arm dumping speed and arm speed of compound operation by arm regeneration circuit realize efficient loading operation.

- **Lifting Mode**
  The lifting mode increases the lifting force by 17%.

- **Large Digging Force**
  Pressing the Power Max function button temporarily increases the digging force by 8%.

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

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

Excellent Reliability and Durability

- **Strengthened Boom and Arm**

- **KMAX Bucket** offers superior wear-resistance for specific use in quarry.

- **Removed Water and Contamination in Fuel**
  - Fuel pre-filter with water separator
  - High efficiency fuel filter
  - Water separator

- **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.
  - Controller • Sensors • Connectors
  - Heat resistant wiring

Maintenance Features

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

- **Easy Detachable Radiator and Oil Cooler**

- **Easy Checking and Maintenance of Engine**

- **Work on Machine Anti-slip Plates for Safe**

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

See page 5.
Ecology and Economy Features

- **High Power Komatsu SAA6D140E-5 Engine**
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 provides **320 kW** (429 HP).

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

- **Low Ambient Noise**
  - Electronically controlled variable speed fan drive
  - Large hybrid fan
  - Glasswool-furnished low-noise muffler and noise reducing cover around the muffler

- **Mode Selection**
  - Economy mode improves fuel consumption.
  - Eco-gauge for energy-saving operations
  - Extended idling caution for fuel conservation
  - Auto deceleration and auto idling system reduce fuel consumption.

See pages 4, 5.

Working Environment

- **Large Comfortable Cab**
  - Low-noise cab
  - Low vibration with cab damper mounting
  - Highly pressurized cab with optional air conditioner
  - Operator seat and console with armrest that enables operations in the appropriate operational posture.
  - OPG top guard level 2 (by ISO 10262 standard) capable with optional bolt-on top guard

Large TFT LCD Monitor

- Easy-to-see and use 7” large multi-function color monitor
- Can be displayed in 12 languages for global support.

TFT : Thin Film Transistor
LCD : Liquid Crystal Display

See page 10.

---

**HORSEPOWER**
- **Gross:** 323 kW (433 HP) @ 1800 rpm
- **Net:** 320 kW (429 HP) @ 1800 rpm

**OPERATING WEIGHT**
- **Backhoe:**
  - 59200 – 61900 kg (130,510 – 136,460 lb)
- **Loading shovel:**
  - 63200 – 64200 kg (139,330 – 141,540 lb)

---

Photo may include optional equipment.

See pages 8, 9.
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 SAA6D140E Engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides 320 kW 429 HP. This Komatsu SAA6D140E 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 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.
Eco-gauge that Assists Energy-saving Operations

Eco-gauge is equipped for environment friendly energy-saving operations. Operation in the green range allows reduction of CO₂ emission and fuel consumption.

Idling Caution

To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor if the engine idles for 5 minutes or more.

Auto Deceleration and Auto Idling System

Auto deceleration system is equipped to reduce fuel consumption and operating noise. Also, engine idling speed can be reduced on the monitor with the auto idling system.

Working Modes Selectable

P and E 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 work equipment speed for light duty work.

Large Digging Force

With the addition of one-touch Power Max. function digging force is further increased. (8 seconds of operation)

Maximum arm crowd force (ISO):
228 kN (23.3 tonf) → 246 kN (25.1 tonf) (with Power Max.)

Maximum bucket digging force (ISO):
294 kN (30.0 tonf) → 317 kN (32.3 tonf) (with Power Max.)

*Measured with Power Max function, 3500 mm 11'6" arm and ISO rating

Work Equipment Speed Increased

Work equipment speed and arm speed of compound operation becomes greater with arm quick return circuit and arm regeneration circuit. Quick loading work is now accomplished.

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.

Lifting Mode

Gives 17% more lifting force when needed for handling rock or heavy lifting applications.

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.
**Strengthened Boom and Arm (optional)**

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.

**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.

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

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

**High Efficiency Fuel Filter**

Fuel system reliability is even better with high efficiency fuel filter.

**High-pressure In-line Filtration**

The PC600-8R1 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.

**Sturdy guards** shield the travel motors and piping against damage from rocks. (Rock protectors are optional.)

**Heat-resistant Wiring**

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

**Water Separator**

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

**DT-type Connectors**

DT-type connectors seal tight and have higher reliability.

**Circuit Breaker**

With circuit breaker, the machine can be easily restarted after repair.
Strengthened Quarry Bucket Provides 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 KMAX tooth, 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 by the heat generated during rock loading, maintaining the hardness for a long term.

KMAX 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.)

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.
**WORKING ENVIRONMENT**

**Low Noise Design Cab**
The newly-designed cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows the operator to work in quiet condition.

**Wide Newly-designed 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 air conditioner, air filter and a higher internal air pressure (+6.0 mm Aq +0.2"Aq) prevent external dust from entering the cab.
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.

Low Vibration with Cab Damper Mounting

PC600-8R1 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.

Automatic Air Conditioner (optional)

Enables you to easily and precisely set cab atmosphere with the instruments on the large LCD. 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. Defroster function keeps front glass clear.

Safety Features

Step Light with Timer (optional)

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.

Anti-slip Plates

Spiked plates on working areas provide anti-slip performance.

Horn Interconnected with Warning Light (optional)

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

Rear View Monitoring System (optional)

The operator can view the rear of the machine with a color monitor screen.

OPG top guard (optional)

OPG top guard Level 2 (by ISO 10262) capable with optional bolt-on top guard.
Large LCD Color Monitor

Large Multi-lingual LCD Monitor
A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. The switches are simple and easy to operate. Function keys facilitate multi-function operations. Displays data in 12 languages to support operators around the world.

Indicators
1. Auto-decelerator
2. Working mode
3. Tachometer
4. Engine water temperature gauge
5. Hydraulic oil temperature gauge
6. Fuel gauge
7. Eco-gauge
8. Function switches menu

Basic operation switches
1. Auto-decelerator & auto idling
2. Working mode selector
3. Travelling selector
4. Air conditioner
5. Buzzer cancel
6. Wiper
7. Windshield washer

Mode Selection
The multi-function color monitor has Power mode (two levels), Economy mode (four levels), and Lifting mode.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (P0, P1)</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>
<tr>
<td>L</td>
<td>Lifting Mode</td>
<td>Hydraulic pressure is increased 17%</td>
</tr>
</tbody>
</table>

EMMS (Equipment Management Monitoring System)

Monitor Function
Controller monitors engine oil level, coolant temperature, battery charge and air clogging, etc. If controller finds any abnormality, it is displayed on the LCD.

Maintenance Function
Monitor informs replacement time for oil and filters when the replacement interval is reached.

Trouble Data Memory Function
Monitor stores abnormalities for effective troubleshooting.
Easy Checking and Maintenance of Engine
Engine check points are concentrated on one side of the machine to facilitate daily checks. Thermal guards are placed around high-temperature parts such as turbocharger.

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

Anti-slip Plates
Spiked plates provided on top of the machine cab maintains anti-slip performance for a prolonged period.

Easy Cleaning of Cooling Unit
Reverse-rotation function of the hydraulic driven fan simplifies cleaning out the cooling unit.

Steps Connected to the Machine Cab
Steps allows access from left hand catwalk to top of machine for engine check and maintenance.

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

Engine oil & Engine oil filter every 500 hours
Hydraulic oil every 5000 hours
Hydraulic oil filter every 1000 hours

Electric Pump, Grease Gun with Indicator (optional)
Greasing is made easy with the electric pump and grease gun with indicator.

Easy Detachable Radiator and Oil Cooler
Engine hood opens fully to facilitate removal and installation of the radiator and oil cooler. The hood can be opened vertically by changing the position of the torsion bar.
### Specifications

#### Engine
- **Model**: Komatsu SAA6D140E-5
- **Type**: Water-cooled, 4-cycle, direct injection
- **Aspiration**: Turbocharged, aftercooled
- **Number of cylinders**: 6
- **Bore**: 140 mm 5.51"
- **Stroke**: 165 mm 6.50"
- **Piston displacement**: 15.24 ft³ 930 in³
- **Governor**: All-speed, electronic

#### Hydraulic System
- **Type**: Open-center load-sensing system
- **Number of selectable working modes**: 3

#### Swing System
- **Driven method**: Hydrostatic
- **Swing reduction**: Planetary gear
- **Swing circle lubrication**: Grease-bathed
- **Swing lock**: Oil disc brake
- **Swing speed**: 8.3 rpm

#### Undercarriage
- **Center frame**: H-leg frame
- **Track frame**: Box-section
- **Seal of track**: Sealed
- **Track adjuster**: Hydraulic
- **No. of shoes**: 49 each side (PC600-8R1)
- **No. of carrier rollers**: 3 each side
- **No. of track rollers**: 8 each side (PC600-8R1)
- **No. of track rollers**: 9 each side (PC600LC-8R1)

#### Coolant and Lubricant Capacity (Refilling)
- **Fuel tank**: 880 ft³ 232.5 U.S. gal
- **Radiator**: 58 ft³ 15.3 U.S. gal
- **Engine**: 40 ft³ 10.6 U.S. gal
- **Final drive, each side**: 10 ft³ 2.6 U.S. gal
- **Swing drive**: 2 x 13 ft³ 2 x 3.4 U.S. gal
- **Hydraulic tank**: 360 ft³ 95.0 U.S. gal

#### Operating Weight (Approximate)

<table>
<thead>
<tr>
<th>Backhoe</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shoes</strong></td>
<td><strong>PC600-8R1</strong></td>
<td><strong>PC600LC-8R1</strong></td>
</tr>
<tr>
<td><strong>Triple grouser</strong></td>
<td>600 mm 24&quot;</td>
<td>59200 kg 104.9 kPa</td>
</tr>
<tr>
<td></td>
<td></td>
<td>600 kg 42300 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>95.0 kPa 14.4 psi</td>
</tr>
<tr>
<td><strong>750 mm</strong></td>
<td>29.5&quot;</td>
<td>60000 kg 132,280 lb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12.4 psi 11.7 psi</td>
</tr>
<tr>
<td><strong>900 mm</strong></td>
<td>35.5&quot;</td>
<td>61900 kg 134,660 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Loading Shovel</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shoes</strong></td>
<td><strong>PC600-8R1</strong></td>
<td><strong>PC600LC-8R1</strong></td>
</tr>
<tr>
<td><strong>Triple grouser</strong></td>
<td>600 mm 24&quot;</td>
<td>63200 kg 111.8 kPa</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3200 kg 160 lb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31.9 MPa 14.1 psi</td>
</tr>
</tbody>
</table>

#### Comfort
- **Air conditioner**: Optional
- **Waste oil filter**: Standard

---

*Net horsepower at the maximum speed of radiator cooling fan is 288 kW 386HP.
### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>PC600-8R1</th>
<th>PC600LC-8R1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>12960 mm</td>
<td>12880 mm</td>
</tr>
<tr>
<td>Overall height (top of boom)</td>
<td>4300 mm</td>
<td>4655 mm</td>
</tr>
<tr>
<td>Arm</td>
<td>3500 mm</td>
<td>3500 mm</td>
</tr>
<tr>
<td>Shoelength</td>
<td>600 mm</td>
<td>600 mm</td>
</tr>
<tr>
<td>Grouser height</td>
<td>37 mm</td>
<td>37 mm</td>
</tr>
<tr>
<td>Machine cab width</td>
<td>3170 mm</td>
<td>3170 mm</td>
</tr>
<tr>
<td>Distance, swing center to rear end</td>
<td>3825 mm</td>
<td>3825 mm</td>
</tr>
<tr>
<td>A Overall length</td>
<td>7660 mm</td>
<td>7660 mm</td>
</tr>
<tr>
<td>B Overall height (top of boom)</td>
<td>4300 mm</td>
<td>4655 mm</td>
</tr>
<tr>
<td>C Overall width</td>
<td>3825 mm</td>
<td>3825 mm</td>
</tr>
<tr>
<td>D Overall height (top of cab)</td>
<td>3290 mm</td>
<td>3290 mm</td>
</tr>
<tr>
<td>E Ground clearance, counterweight</td>
<td>1365 mm</td>
<td>1365 mm</td>
</tr>
<tr>
<td>F Ground clearance (minimum)</td>
<td>780 mm</td>
<td>780 mm</td>
</tr>
<tr>
<td>G Tail swing radius</td>
<td>3950 mm</td>
<td>3950 mm</td>
</tr>
<tr>
<td>H Track length on ground</td>
<td>4250 mm</td>
<td>4600 mm</td>
</tr>
<tr>
<td>I Track length</td>
<td>5340 mm</td>
<td>5690 mm</td>
</tr>
<tr>
<td>J Track gauge</td>
<td>2590 mm</td>
<td>2590 mm</td>
</tr>
<tr>
<td>K Track gauge when expanded</td>
<td>3300 mm</td>
<td>3300 mm</td>
</tr>
<tr>
<td>L Width of crawler</td>
<td>3190 mm</td>
<td>3190 mm</td>
</tr>
<tr>
<td>M Width of crawler when expanded</td>
<td>3900 mm</td>
<td>3900 mm</td>
</tr>
<tr>
<td>N Shoe width</td>
<td>600 mm</td>
<td>600 mm</td>
</tr>
<tr>
<td>O Grouser height</td>
<td>37 mm</td>
<td>37 mm</td>
</tr>
<tr>
<td>P Machine cab height</td>
<td>3435 mm</td>
<td>3435 mm</td>
</tr>
<tr>
<td>Q Machine cab width</td>
<td>3170 mm</td>
<td>3170 mm</td>
</tr>
<tr>
<td>R Distance, swing center to rear end</td>
<td>3825 mm</td>
<td>3825 mm</td>
</tr>
</tbody>
</table>

### Working Range

<table>
<thead>
<tr>
<th>Dimension</th>
<th>STD</th>
<th>HD</th>
<th>SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>7660 25'2&quot;</td>
<td>7660 25'2&quot;</td>
<td>7660 25'2&quot;</td>
</tr>
<tr>
<td>Arm</td>
<td>3500 11'6&quot;</td>
<td>3500 14'1&quot;</td>
<td>3500 17'1&quot;</td>
</tr>
<tr>
<td>A Max. digging height</td>
<td>11880 39'0&quot;</td>
<td>12180 40'0&quot;</td>
<td>12560 41'3&quot;</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>7960 26'1&quot;</td>
<td>8245 27'1&quot;</td>
<td>8600 28'3&quot;</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>8490 27'10&quot;</td>
<td>9275 30'5&quot;</td>
<td>10225 33'7&quot;</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>7510 24'8&quot;</td>
<td>8375 27'6&quot;</td>
<td>9275 30'5&quot;</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 5' level</td>
<td>8360 27'5&quot;</td>
<td>9175 30'1&quot;</td>
<td>10125 33'3&quot;</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>13020 42'9&quot;</td>
<td>13740 45'1&quot;</td>
<td>14630 48'0&quot;</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>12800 42'0&quot;</td>
<td>13555 44'6&quot;</td>
<td>14435 47'4&quot;</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>5370 17'7&quot;</td>
<td>5385 17'8&quot;</td>
<td>5510 18'1&quot;</td>
</tr>
<tr>
<td>Bucket digging force (SAE)</td>
<td>264 kN</td>
<td>26900 kgf</td>
<td>59,300 lb</td>
</tr>
<tr>
<td>Bucket digging force at power max. (SAE)</td>
<td>285 kN</td>
<td>29100 kgf</td>
<td>64,150 lb</td>
</tr>
<tr>
<td>Arm crowd force (SAE)</td>
<td>222 kN</td>
<td>49,820 lb</td>
<td>226 kN</td>
</tr>
<tr>
<td>Arm crowd force at power max. (SAE)</td>
<td>214 kN</td>
<td>43,650 lb</td>
<td>170 kN</td>
</tr>
<tr>
<td>Bucket digging force (ISO)</td>
<td>294 kN</td>
<td>53,570 lb</td>
<td>336 kN</td>
</tr>
<tr>
<td>Bucket digging force at power max. (ISO)</td>
<td>317 kN</td>
<td>53,570 lb</td>
<td>362 kN</td>
</tr>
<tr>
<td>Arm crowd force (ISO)</td>
<td>225 kN</td>
<td>51,370 lb</td>
<td>225 kN</td>
</tr>
<tr>
<td>Arm crowd force at power max. (ISO)</td>
<td>218 kN</td>
<td>48,940 lb</td>
<td>189 kN</td>
</tr>
</tbody>
</table>

Unit: mm ft in
### BACKHOE BUCKET AND ARM COMBINATION

#### BUCKET CAPACITY (HEAPED)

<table>
<thead>
<tr>
<th>SAE, PCSA CECE</th>
<th>With side shrouds, side cutters</th>
<th>Without side shrouds, side cutters</th>
<th>WEIGHT (with side shrouds, side cutters) kg lb</th>
<th>TOOTH</th>
<th>ARM LENGTH m ft in</th>
</tr>
</thead>
<tbody>
<tr>
<td>use with 7.66m 25'2&quot; boom</td>
<td>2.0 2.62</td>
<td>1.8 2.35</td>
<td>1430 56.3’</td>
<td>1250 49.2’</td>
<td>2130 4,700</td>
</tr>
<tr>
<td>2.3 3.01</td>
<td>2.0 2.62</td>
<td>1580 62.2’</td>
<td>1400 55.1’</td>
<td>2260 4,980</td>
<td>KMAX ○ ○</td>
</tr>
<tr>
<td>2.7 3.53</td>
<td>2.4 3.14</td>
<td>1780 70.1’</td>
<td>1600 63.0’</td>
<td>2470 5,450</td>
<td>KMAX ○</td>
</tr>
<tr>
<td>use with 7.3m 23'11&quot; HD boom</td>
<td>2.8 3.66</td>
<td>2.5 3.27</td>
<td>1655 65.2’</td>
<td>1725 68.0’</td>
<td>3100 6,830</td>
</tr>
<tr>
<td>3.1 4.05</td>
<td>2.8 3.66</td>
<td>1780 70.1’</td>
<td>1850 72.9’</td>
<td>3230 7,120</td>
<td>KMAX ○ *</td>
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<tr>
<td>use with 6.6m 21'8&quot; SE boom</td>
<td>3.5 4.58</td>
<td>3.1 4.05</td>
<td>1900 74.9’</td>
<td>1950 76.8’</td>
<td>3330 7,340</td>
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</table>

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

- ○ : General purpose use, density up to 1.8 t/m³ 3,000 lb/yard³
- ⌂ : Not useable
- * : Available only to LC crawler

### LOADING SHOVEL DIMENSIONS

![Loading Shovel Dimensions](image)

### LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION

#### Working Range

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity–heaped</td>
<td>4.0 m³ 5.2 yd³</td>
</tr>
<tr>
<td>A Max. cutting height</td>
<td>10090 mm 33'1&quot;</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>6705 mm 22'0&quot;</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>3495 mm 11'6&quot;</td>
</tr>
<tr>
<td>D Max. digging reach</td>
<td>9190 mm 30'2&quot;</td>
</tr>
<tr>
<td>E Max. digging reach at ground level</td>
<td>8850 mm 29'0&quot;</td>
</tr>
<tr>
<td>F Level crowding distance</td>
<td>3275 mm 10'9&quot;</td>
</tr>
<tr>
<td>G Min. crowd distance</td>
<td>5135 mm 16'10&quot;</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>366 kN 84,900 lb</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>338 kN 76,060 lb</td>
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</table>

#### Bucket Selection

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
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<tbody>
<tr>
<td>Capacity–heaped</td>
<td>4.0 m³ 5.2 yd³</td>
</tr>
<tr>
<td>Width</td>
<td>2090 mm 82.3’</td>
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<tr>
<td>Weight</td>
<td>5700 kg 12,570 lb</td>
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<tr>
<td>No. of bucket teeth</td>
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</tr>
<tr>
<td>Recommended uses</td>
<td>General-purpose digging and loading</td>
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</table>
### PC600-8R1

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

<table>
<thead>
<tr>
<th>Boom</th>
<th>7.66m 25°</th>
<th>Arm</th>
<th>3.5m 11°</th>
<th>Bucket</th>
<th>2.7m 3.53cy yd</th>
<th>Shoes</th>
<th>600mm 24°</th>
<th>Trip</th>
<th>L, Mode: &quot;OFF&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>A</td>
<td>MAX</td>
<td>B</td>
<td>MAX</td>
<td>B</td>
<td>MAX</td>
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<td>26,700</td>
<td>32,800</td>
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<td>37,850</td>
</tr>
</tbody>
</table>

### LIFTING CAPACITY

B: Bucket hook height  
Cr: Rating over front  
Cs: Rating over side  

<table>
<thead>
<tr>
<th>Boom</th>
<th>7.66m 25°</th>
<th>Arm</th>
<th>3.5m 11°</th>
<th>Bucket</th>
<th>2.7m 3.53cy yd</th>
<th>Shoes</th>
<th>600mm 24°</th>
<th>Trip</th>
<th>L, Mode: &quot;ON&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>A</td>
<td>MAX</td>
<td>B</td>
<td>MAX</td>
<td>B</td>
<td>MAX</td>
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<td>37,850</td>
</tr>
</tbody>
</table>

*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

**PC600-8R1**

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

#### Boom: 7.3m 23'11", Arm: 3.5m 11'6", Bucket: 2.8m³ 3.66cu.yd, Shoes: 600mm 24" triple, L mode: "ON"  
**unit: kg b**

<table>
<thead>
<tr>
<th>Bo</th>
<th>A MAX</th>
<th>9.1m 29'</th>
<th>7.6m 24'</th>
<th>6.1m 20'</th>
<th>4.6m 15'</th>
<th>3.0m 9'</th>
</tr>
</thead>
<tbody>
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<td>9.1m</td>
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<td><em>9650</em></td>
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</tbody>
</table>

#### Boom: 6.6m 21'8", Arm: 2.9m 9'6", Bucket: 3.5m³ 4.58cu.yd, Shoes: 600mm 24" triple, L mode: "OFF"  
**unit: kg b**

<table>
<thead>
<tr>
<th>Bo</th>
<th>A MAX</th>
<th>9.1m 29'</th>
<th>7.6m 24'</th>
<th>6.1m 20'</th>
<th>4.6m 15'</th>
<th>3.0m 9'</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

*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

**PC600LC-8R1**

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

**Boom:** 7.66m 25°  
**Arm:** 3.5m 11°  
**Bucket:** 2.7m 3.3cu.yd  
**Shoes:** 600mm 24° triple  
**L mode:** "OFF"  
**unit:** kg lb

<table>
<thead>
<tr>
<th></th>
<th>MAX</th>
<th>9.1m 29'</th>
<th>7.6m 24'</th>
<th>6.1m 20'</th>
<th>4.6m 15'</th>
<th>3.0m 9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td></td>
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<td>29'</td>
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<table>
<thead>
<tr>
<th></th>
<th>7.6m 24'</th>
<th>6.1m 20'</th>
<th>4.6m 15'</th>
<th>3.0m 9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
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<td>6.1</td>
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<tr>
<td>20'</td>
<td><em>15,100</em></td>
<td><em>21,400</em></td>
<td><em>21,400</em></td>
<td><em>20,800</em></td>
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**Boom:** 7.66m 25°  
**Arm:** 3.5m 11°  
**Bucket:** 2.7m 3.3cu.yd  
**Shoes:** 600mm 24° triple  
**L mode:** "ON"  
**unit:** kg lb

<table>
<thead>
<tr>
<th></th>
<th>MAX</th>
<th>9.1m 29'</th>
<th>7.6m 24'</th>
<th>6.1m 20'</th>
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<td>29'</td>
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<td>6.1</td>
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<td><em>8750</em></td>
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<td><em>23,300</em></td>
<td><em>19,300</em></td>
<td><em>16,400</em></td>
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**Boom:** 7.3m 23°  
**Arm:** 3.5m 11°  
**Bucket:** 2.8m 3.66cu.yd  
**Shoes:** 600mm 24° triple  
**L mode:** "OFF"  
**unit:** kg lb

<table>
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<td>29'</td>
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<tr>
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<td><em>13,300</em></td>
<td><em>17,600</em></td>
<td><em>10,050</em></td>
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**Loading and other specifications:**

- 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

**PC600LC-8R1**

- **A**: Reach from swing center
- **B**: Bucket hook height
- **C**: Lifting capacity
- **Cs**: Rating over side

#### 3.0m

<table>
<thead>
<tr>
<th>Height</th>
<th>Reach (m)</th>
<th>3.0m 9'</th>
<th>6.1m 15'</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1.5m</td>
<td>1.23m</td>
<td>19.000</td>
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<tr>
<td>3.0m</td>
<td>2.2m</td>
<td>1.09m</td>
<td>16.000</td>
</tr>
<tr>
<td>4.5m</td>
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<tr>
<td>6.0m</td>
<td>3.7m</td>
<td>0.39m</td>
<td>12.000</td>
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<tr>
<td>7.5m</td>
<td>4.5m</td>
<td>0.19m</td>
<td>10.000</td>
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#### 6.0m

<table>
<thead>
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<th>Height</th>
<th>Reach (m)</th>
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</tr>
</thead>
<tbody>
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<td>1.5m</td>
<td>1.5m</td>
<td>3.100</td>
</tr>
<tr>
<td>3.0m</td>
<td>2.2m</td>
<td>2.400</td>
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<tr>
<td>4.5m</td>
<td>3.0m</td>
<td>1.700</td>
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<td>6.0m</td>
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</tr>
<tr>
<td>7.5m</td>
<td>4.5m</td>
<td>0.300</td>
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</table>

#### 7.5m

<table>
<thead>
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<th>Height</th>
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<tr>
<td>1.5m</td>
<td>1.5m</td>
<td>0.600</td>
</tr>
<tr>
<td>3.0m</td>
<td>2.2m</td>
<td>0.300</td>
</tr>
<tr>
<td>4.5m</td>
<td>3.0m</td>
<td>0.100</td>
</tr>
<tr>
<td>6.0m</td>
<td>3.7m</td>
<td>0.000</td>
</tr>
</tbody>
</table>

#### 9.0m

<table>
<thead>
<tr>
<th>Height</th>
<th>Reach (m)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1.5m</td>
<td>1.5m</td>
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</tr>
<tr>
<td>3.0m</td>
<td>2.2m</td>
<td>0.100</td>
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<tr>
<td>4.5m</td>
<td>3.0m</td>
<td>0.000</td>
</tr>
</tbody>
</table>

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard NO. J1997. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*
**Backhoe**
Specs shown include the following equipment:
PC600-8R1: Boom 7660 mm 25'2", Arm 3500 mm 11'6", Bucket 2.7 m³ 3.53 yd³, Shoes 600 mm 24" triple grouser

**3 Kits Transportation**

**Work equipment assembly (Backhoe)**

- **Weight**: 12.5 t 13.8 U.S.ton

**Boom**

- 4.9t: 7920 x 2040 x 1190
- 5.4 U.S.ton: 26'0" x 6'8" x 3'11"

**Arm**

- 3.3t: 4870 x 1210 x 650
- 3.6 U.S.ton: 16'0" x 4'0" x 2'2"

**Bucket**

- 2.5t: 2150 x 1780 x 1780
- 2.8 U.S.ton: 7'1" x 5'10" x 5'10"

**Boom cylinder & Arm cylinder**

- Total 1.7 t 1.9 U.S.ton

**Base machine**

- **Width**: 3195 10'6"
- **Weight**: PC600-8R1 34.4t 37.9 U.S.ton
- PC600LC-8R1 35.4t 39.0 U.S.ton

**Upper structure**

- **Width**: 18.6 t 20.3 U.S.ton

**Undercarriage**

- **Width**: PC600-8R1 5340 17'6"
- PC600LC-8R1 5690 18'9"
- **Weight**: PC600-8R1 16.0 [8.0 t x 2] 17.6 U.S.ton [8.8 U.S.ton x 2]
- PC600LC-8R1 17.0 [8.5 t x 2] 18.7 U.S.ton [9.4 U.S.ton x 2]

**Others**

- **Weight**: 12.3 t 13.6 U.S.ton

**Loading Shovel**
Specs shown include the following equipment:
PC600-8R1: Boom 4000 mm 13'1", Arm 3000 mm 9'10", Bucket 4.0 m³ 5.2 yd³, Shoes 600 mm 24" double grouser

**3 Kits Transportation**

**Work equipment assembly (Loading shovel)**

- **Width**: 2090 6'10"
- **Weight**: 16.5 t 18.2 U.S.ton

**Upper structure**

- **Width**: 5170 17'0"

**Undercarriage**

- **Width**: 3701 12'6"
- **Weight**: PC600-8R1 34.4t 37.9 U.S.ton
- PC600LC-8R1 35.4t 39.0 U.S.ton

**Others**

- **Weight**: 12.3 t 13.6 U.S.ton

**TRANSPORTATION GUIDE**

Transportation specifications (length x height x width)

Backhoe

- **Specs shown include the following equipment:**
  - PC600-8R1: Boom 7660 mm 25'2", Arm 3500 mm 11'6", Bucket 2.7 m³ 3.53 yd³, Shoes 600 mm 24" triple grouser

- **3 Kits Transportation**

  - **Work equipment assembly (Backhoe)**
    - **Weight**: 12.5 t 13.8 U.S.ton
  
  - **Boom**
    - 7920 x 2040 x 1190
    - 26'0" x 6'8" x 3'11"
  
  - **Arm**
    - 4870 x 1210 x 650
    - 16'0" x 4'0" x 2'2"
  
  - **Bucket**
    - 2150 x 1780 x 1780
    - 7'1" x 5'10" x 5'10"
  
  - **Boom cylinder & Arm cylinder**
    - Total 1.7 t 1.9 U.S.ton

- **Base machine**

  - **Width**: 3195 10'6"
  - **Weight**: PC600-8R1 34.4t 37.9 U.S.ton
  - PC600LC-8R1 35.4t 39.0 U.S.ton

- **Upper structure**

  - **Width**: 5170 17'0"

- **Undercarriage**

  - **Width**: 3701 12'6"
  - **Weight**: PC600-8R1 34.4t 37.9 U.S.ton
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- **Others**

  - **Weight**: 12.3 t 13.6 U.S.ton

Loading Shovel

- **Specs shown include the following equipment:**
  - PC600-8R1: Boom 4000 mm 13'1", Arm 3000 mm 9'10", Bucket 4.0 m³ 5.2 yd³, Shoes 600 mm 24" double grouser

- **3 Kits Transportation**

  - **Work equipment assembly (Loading shovel)**
    - **Width**: 2090 6'10"
    - **Weight**: 16.5 t 18.2 U.S.ton
**STANDARD EQUIPMENT**

**ENGINE AND RELATED ITEMS:**
- Air cleaner, double element, dry
- Engine, Komatsu SAA6D140E-5
- Variable speed cooling fan, with fan guard

**ELECTRICAL SYSTEM:**
- Alternator, 50 amp, 24 V
- Auto-decelerator and auto-idling system
- Batteries, 170 Ah, 2 x 12 V
- Starting motors, 11 kW
- Working lights 2 (boom and right front)

**UNDERCARRIAGE:**
- Hydraulic track adjusters (each side)
- Sealed track
- 8 track/3 carrier rollers (each side)
- 9 track/3 carrier rollers (each side) (LC)
- 600 mm 24” triple grouser
- Variable track gauge

**GUARDS AND COVERS:**
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition cover
- Strengthened revolving frame underguard
- Travel motor guards

**OPERATOR ENVIRONMENT:**
- Cab with pull-up type 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
- Multi-function color monitor, fuel control dials, service meter, gauges (coolant temperature, hydraulic oil 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 and engine oil level), self-diagnostic system with trouble data memory
- Seat, fully adjustable with suspension
- Rear view mirror (RH)

**HYDRAULIC CONTROLS:**
- Control levers and pedals for steering and travel with PPC system
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control valves, 5+4 spools (boom, arm, bucket, swing, and travel)
- Fully hydraulic, with Open-Center Load-Sensing (OLSS) and engine speed sensing (pump and engine mutual control system)
- In-line filter
- Lifting mode system
- Oil cooler
- One axial piston motor per track for travel with counter balance valve
- One gear pump for control circuit
- Power max function
- Two axial piston motors for swing with single-stage relief valve
- Two-mode setting for boom
- Two variable capacity piston pumps

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

**OTHER STANDARD EQUIPMENT:**
- Anti-slip plates
- Automatic swing holding brake
- Catwalk
- Counterweight, 10750 kg 23,700 lb
- Horn, electric
- Large handrails
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Rear reflector
- Travel alarm
- Water separator

**OPTIONAL EQUIPMENT**

- Alternator, 90 amp, 24 V
- Arms (Backhoe):
  - 3500 mm 11’6” arm assembly
  - 3500 mm 11’6” HD arm assembly
  - 4300 mm 14’1” arm assembly
  - 5200 mm 17’1” arm assembly
  - 2900 mm 9’6” SE arm assembly
- Automatic air conditioner
- Booms (Backhoe):
  - 7660 mm 25’2” boom assembly
  - 7300 mm 23’11” HD boom assembly
  - 6600 mm 21’8” SE boom assembly
- Cab front guard (ISO 10262 level 2)
- Cab with fixed front window
- Counterweight 13500 kg 29,800 lb
- Electric pump, grease gun with indicator
- 12V electric supply
- Fire extinguisher
- Full length track roller guard
- General tool kit
- Interconnected horn and warning light
- Large-capacity batteries
- Loading shovel attachments
- Lower wiper
- OPG top guard
- Radio AM/FM
- Rain visor
- Rear view mirror (LH)
- Rear view monitoring system
- Rock protectors (undercarridge)
- Seat belt 78 mm 3”, 50 mm 2”
- Service valve
- Shoes:
  - 600 mm 24” double grouser for backhoe
  - 750 mm 29.5” triple grouser for backhoe
  - 900 mm 35.5” triple grouser for PC600LC backhoe only
- Spare parts for first service
- Step light with timer
- Sun visor
- Track frame undercover (center)
- Vandalism protection locks
- Working lights 2 (on cab)

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