**STANDARD EQUIPMENT**

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

**ELECTRICAL SYSTEM:**
- Alternator, 50 amp, 24 V
- Batteries, 170 Ah, 2 x 12 V
- Starting motors, 11kW
- Working lights-2 boom, 2 cab top front, 1 cab bottom
- Stop light with timer
- Auto deaccelerator

**UNDERCARRIAGE:**
- 610 mm 24” double grouser
- 8 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Variable track gauge
- Sealed track

**GUARDS AND COVERS:**
- Dust-proof net for radiator and oil cooler
- Pump/pinion room partition cover
- Travel motor guards

**OPERATOR ENVIRONMENT:**
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, footrest, cigarette lighter and ashtray
- Multi-function color monitor, electronically-controlled throttle dials, electric service meter, gauges (coolant temperature, hydraulic oil temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner dopping), indicator lights (engine preheating and swing lock light) level check lights (coolant, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Seat, fully adjustable with suspension
- Cab with pull-up type front window
- Rear view mirror (R,H)

**OPTIONAL EQUIPMENT**

**HYDRAULIC EXCAVATOR**

**STANDARD EQUIPMENT**

- Additional track guard
- Air suspension seat
- Alternator, 75 Amp, 24 V
- Arms (Backhoe):
  - 3600 mm 11’10” arm assembly
  - 4600 mm 15’11” arm assembly
  - 5600 mm 18’4” arm assembly
- PC800/SE-8 backhoe
  - 1200 mm 26”11” arm assembly
- Auto air conditioner
- Automatic greasing
- Booms (Backhoe): PC800-8:
  - 8200 mm 26’11” boom assembly
  - 7100 mm 23’4” boom assembly

- Cab front guard (ISO 10282 level 2)
- Cab with fixed front window
- Cablight
- Coolant heater
- Counterweight 11650 kg 26,120 lb
- Double flange track roller
- 12V electric supply
- Fire extinguisher
- Full length track guard
- General tool kit
- Grease gun, electric pump with indicator
- High cab mount
- Interconnected horn and warning light
- Large-capacity batteries
- Loading shovel attachments
- Lower wiper
- OPS top guard

- Provision for fast fuel fill
- Radio AM/FM
- Rain visor
- Rear view mirror (L,H)
- Seat belt 78 mm 3”, 50 mm 2”
- Shoes:
  - 710 mm 28” double grouser
  - 810 mm 32” double grouser
  - 910 mm 36” double grouser
  - 1010 mm 40” double grouser
- Spare parts for first service
- Strengthened revolving frame underguard
- Sun visor
- Track frame undercover (center)
- Vandalism protection locks
- Working lights 2 (on cab)

**HYDRAULIC CONTROLS:**
- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- Two axial piston motors for swing with single-stage relief valve
- One axial piston motor per track for travel with counter balance valve
- Two variable capacity piston pumps
- Two control valves, 5+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 filter
- Heavy lift mode system
- Shockless boom control
- Swing priority selection system
- Two-mode setting for boom

**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:**
- Automatic swing holding brake
- Counterweight, 9600 kg 21,610 lb
- Horn, electric
- Marks and plates, English
- Paint, Komatsu standard
- Large handrails
- Additional track guard

**LOADING SHOVEL: 77000 kg**

**HORSEPOWER:**
- Gross:370 kW 496 HP @ 1800 rpm
- Net:363 kW 487 HP @ 1800 rpm

**OPERATING WEIGHT**
- Backhoe:74200–77810 kg
- Loading shovel:77000 kg
- 163,580–171,540 lb
- 169,750 lb
**WALK-AROUND**

**Productivity Features**

- **High Work Equipment Speed**
  Increased arm dumping and bucket dumping speed realize efficient loading operation.

- **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.

- **Increased Fuel Tank Capacity**
  See page 10.

**Excellent Reliability and Durability**

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

- **Fuel Pre-filter** with water separator equipped as standard.

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

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

- **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 page 6.

**Ecology and Economy Features**

- **Komatsu SAA6D140E-5 Engine is Tier 3 Emissions Certified.**
  - World’s first cooled EGR system with bypass-assist type electronically controlled venturi
  - Offers high power and low fuel consumption, while conforming to Tier 3 emission certified.
  - Reduces NOx emission approximately 40%.
  - Equipped with an 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**
  Meets the EU stage 2 noise regulations.
  - Electronically controlled variable speed fan drive
  - Large hybrid fan
  - Glasswool-furnished low-noise muffler and noise reducing cover around the muffler

  See page 4.

**Working Environment**

- **Large Comfortable Cab**
  - Low noise and vibration with cab damper mounting
  - Large-capacity air conditioner (optional)
  - Pressurized cab prevents external dust from entering
  - OPG top guard level 2 (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.
PRODUCTIVITY & ECOLOGY FEATURES

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.

Environment-friendly Clean Engine Mounted
Komatsu SA6D140E-5 engine is Tier 3 and EU stage 3A emissions certified. The SA6D140E-5 engine adopts the world’s first cooled EGR system with electronically controlled bypass-assist type venturi. NOx emission is reduced 40%, while maintaining high power and low fuel consumption.

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

Lower and Economical Fuel Consumption Using Economy Mode
Enables operator to set the Econ 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 (optional)
Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan, low-noise muffler and cover with glasswool, to meet EU stage 2 noise regulations.

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): 250 kN 25.5 ton
- Maximum bucket digging force (ISO): 333 kN 34.0 ton

Work Equipment Speed Increased
An arm quick return circuit is provided for arm dumping. This returns a portion of oil flow directly to the hydraulic tank at arm dumping to reduce the hydraulic pressure loss. Combined with increased bucket dumping speed, faster loading work is realized.

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 PC800-8 boom circuit features a shockless valve (double-check slow return valve) to automatically reduces the amount of vibration present when operating the boom. Operator fatigue is reduced (which can improve safety and productivity), and spillage caused by vibration is minimized.

Working Mode Selection

Power and Economy Mode
The PC800-8 excavator is equipped with two working modes. Each mode is designed to match engine speed, pump flow, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Power Mode</td>
<td>Maximum production/power</td>
</tr>
<tr>
<td>E (E0,E1,E2,E3)</td>
<td>Economy Mode</td>
<td>Good cycle time, 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.

This is an image photo: may differ from the actual engine.
RELIABILITY FEATURES

Excellent Reliability and Durability

**Boom Foot Hoses**
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.

**DT-type Connectors**
DT-type connectors seal tight and have higher reliability.

**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.

**High-pressure In-line Filtration**
The PC800-8 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.

**Koma-hard materials**
Komatsu developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (100kgf/mm² class).

**KMAX 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.)

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

**Fuel Pre-filter**
Removes water and contaminants from fuel to enhance the fuel system 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.

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

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

**Pin locking shaft**
Using the correct size socket, rotate the pin locking shaft by clockwise (as shown) to finish the installation.

**STEP 1**
Reserve 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.

**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.

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**DT-type Connectors**
DT-type connectors seal tight and have higher reliability.
The cab interior is spacious and provides a comfortable working environment…

Large Comfortable Cab

Comfortable Cab
New PC800-8’s cab offers an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

Pressurized Cab
The optional air conditioner, air filter and a higher internal air pressure (6.0 mm Aq 0.2” in Aq) prevent external dust from entering the cab.

Low Noise Design
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

Low Vibration with Cab Damper Mounting
PC800-8 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck, aids vibration reduction at the operator’s seat.

Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL). dB (VL) is index for expressing size of vibration.

Comparison of Riding Comfort

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.

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.

Seat Sliding Amount: 340 mm 13.4", increased 120 mm 4.7”

Defroster (optional)
Cab Frame Mounted Wiper
Bottle Holder and Magazine Rack

Ride on obstacle one side track
Traveling speed forward high

Vertical direction on graph shows size of vibration.

Skylight Sliding Window
Multi-Position Controls
Washable Cab Floormat

Photo may include optional equipment.

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.

Anti-slip Plates
Horn interconnected with warning light (optional) give visual and audible notice of the excavator’s operation when activated.
Komatsu Designed the PC800-8 for Easy Service Access.

**Easy Checking and Maintenance of Engine**
Engine check points are concentrated on one side of the engine to facilitate daily checks. Thermal guards are placed around high-temperature parts such as turbocharger.

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

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

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

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

**One-touch Drain Cock**
Easier, cleaner engine oil changes.

**Reduced Maintenance Costs**
Hydraulic oil filter replacement is extended from 500 to 1000 hours. Engine oil and filter replacement intervals are extended from 250 to 500 hours.

**Electric Operated Grease Gun Equipped with Hose Reel (optional)**
Greasing is made easy with the electric operated grease gun and indicator.

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

**Divided Type Engine Cover**
The divided engine cover allows inspection points around the engine to be easily accessed.

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

**Increased Fuel Tank Capacity**
Fuel tank capacity is increased from 880 ltr 232 U.S. gal to 980 ltr 259 U.S. gal to extend operating hours before refueling.

**High-Quality EMMS Self-diagnostic System**
- **Abnormality Checking Function**
  In case any abnormality should occur, the monitoring system checks whether hydraulic pressure, solenoid ON/OFF status, engine speed, electrical connections, etc. are in the normal conditions to keep the machine downtime to a minimum.
- **Maintenance History Memory Function**
  Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored.
- **Trouble Data Memory Function**
  All the trouble data are stored to serve as references for future trouble-shooting.
## SPECIFICATIONS

### ENGINE
- **Model:** Komatsu SAA6D14E-5
- **Type:** 4-cylinder, water-cooled, direct injection
- **Application:** Turbocharged, aftercooled, EGR
- **Number of cylinders:** 6
- **Bore:** 140 mm
- **Stroke:** 165 mm
- **Piston displacement:** 15.24 l
- **Governor:** A-speed, electronic
- **Horsepower:** SAE J1995
  - **Gross:** 370 kW / 496 HP
  - **Net:** 363 kW / 487 HP
- **Rated rpm:** 1800 rpm

### HYDRAULIC SYSTEM
- **Type:** Open-center load-sensing system
- **Main pump:** Variable capacity piston pumps
  - **Variable capacity piston type:** Variable capacity piston pumps
  - **Variable capacity piston motors:** Travel, 2 x axial piston motor with parking brake
  - **Variable capacity piston motors:** Swing, 2 x axial piston motor with swing holding brake
- **Relief valve setting:**
  - **Implement circuits:** 31.4 MPa / 4500 psi
  - **Travel circuit:** 34.9 MPa / 5000 psi
  - **Swing circuit:** 28.4 MPa / 4000 psi
  - **Heavy lift circuit:** 34.3 MPa / 4900 psi
  - **Pilot circuit:** 2.9 MPa / 420 psi
- **Hydraulic cylinders:**
  - **Number of cylinders:** 2 x stroke
  - **Boom:** 2 – 200 mm x 1560 mm
  - **Arm:** 2 – 200 mm x 2250 mm
  - **Bucket:** 1 – 165 mm x 1710 mm
  - **SE:** 1 – 225 mm x 1420 mm

### SWING SYSTEM
- **Driven method:** Hydraulic motors
- **Swing reduction:** Planetary gear
- **Swing circuit lubrication:** Grease-bathed
- **Swing lock:** Oil disc brake
- **Swing speed:** 6.8 rpm

### DRIVES AND BRAKES
- **Steering control:** Two levers with pedals
- **Drive method:** Fully hydrostatic
- **Travel motor:** Axial plunger motor, in-shoe design
- **Reduction system:** Planetary triple reduction
- **Maximum drawbar pull:** 559 kN / 77,000 kg
- **Strokes:** 72%
- **Maximum travel speed:**
  - **Low:** 2.9 km / 1.7 mph
  - **High:** 4.2 km / 2.6 mph
- **Service brake:** Hydraulic lock
- **Parking brake:** Oil disc brake

### UNDERCARRIAGE
- **Center frame:** H-leg frame
- **Box-section track frame:**
  - **Seal of track:** Sealed
  - **Track adjuster:** Hydraulic
- **No. of shoes:** 47 each side
- **No. of roller chains:** 3 each side
- **No. of track rollers:** 8 each side

### COOLANT AND LUBRICANT
- **Coolant:**
  - **Capacity:** 250 l / 66.5 gal
  - **Type:** 2 x 494 l/min
- **Lubricant:**
  - **Capacities:**
    - **SE:**
      - **Capacities:**
        - **Oil:** 640 l / 165 gal
        - **Grease:** 110 kg / 240 lb
      - **Type:** SAE 80W-90
    - **C:**
      - **Capacities:**
        - **Oil:** 640 l / 165 gal
        - **Grease:** 110 kg / 240 lb
      - **Type:** SAE 80W-90
  - **Lubricant, coolant, full fuel tank, and the standard equipment.

### OPERATING WEIGHT (APPROXIMATE)
- **Hydraulic excavator:**
  - **Operating weight:** 2945 kg / 6.50 ltr
  - **Swing circuit:** 2 x 340 l/min
- **Swing drive:**
  - **Rated rpm:** 6.8 rpm
- **Swing reduction:** Planetary gear

### HYDRAULIC EXCAVATOR PC800-80

### WORKING RANGE

<table>
<thead>
<tr>
<th>PC800-8</th>
<th>PC800SE-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating range: 8200 mm / 26'11&quot; boom, 3600 mm / 11'10&quot; arm, SAE healed 4.0 m³ / 52.3 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.</td>
<td></td>
</tr>
</tbody>
</table>

| PC800SE-8 | Operating range: 7100 mm / 23'4" boom, 2945 mm / 9'8" arm, SAE healed 4.0 m³ / 52.3 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment. |

### HYDRAULIC EXCAVATOR PC800-8

<table>
<thead>
<tr>
<th>Unit: mm</th>
<th>lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>50'6&quot;</td>
<td>15635 mm</td>
</tr>
<tr>
<td>44'2&quot;</td>
<td>14115 mm</td>
</tr>
<tr>
<td>39'8&quot;</td>
<td>13130 mm</td>
</tr>
</tbody>
</table>

### BACKHOE BUCKET, ARM, AND BOOM COMBINATION

<table>
<thead>
<tr>
<th>BUCKET CAPACITY (HEAPED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE</td>
</tr>
<tr>
<td>ae</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>Without side shovels, side cutters</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>2.8</td>
</tr>
<tr>
<td>3.1</td>
</tr>
<tr>
<td>3.4</td>
</tr>
<tr>
<td>4.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ARM LENGTH</th>
<th>in</th>
<th>ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>11.5</td>
<td>2.9</td>
<td>8.4</td>
</tr>
<tr>
<td>14</td>
<td>3.5</td>
<td>11.5</td>
</tr>
</tbody>
</table>

These charts are based on even-side stability with fully loaded backhoe at maximum reach.

- General purpose use, density up to 1.6 t/m³ [3,500 lb/yd³]
- General purpose use, density up to 1.8 t/m³ [3,000 lb/yd³]
- Not usable
LOADING SHOVEL DIMENSIONS

**LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION**

**Loading Shovel Working Range and Bucket Selection**

**Type of bucket**

- Bottom dump
- Capacity (heaped) 4.5 m³: 5.9 yd³
- 5.1 m³: 6.7 yd³

**Working Range**

- **Type of bucket**
  - **Bottom dump**
    - Capacity (heaped) 4.5 m³: 5.9 yd³
    - 5.1 m³: 6.7 yd³

**Bucket Selection**

- **Capacity (heaped)**
  - 4.5 m³: 5.9 yd³
  - 5.1 m³: 6.7 yd³

**Loading Shovel Operating Weight**

- **Shoes**
  - 610 mm
  - 7700 kg
  - 125 kPa/2.7 kg/cm²
  - 24" 169,750 lb

- **Pressure Ground Plane**
  - 7700 kg
  - 1.81 PSI

**PC800-8**

- **Equipment**
  - Boom: 8.2 m (26.6 ft)
  - Arm: 4.6 m (15.6 ft)
  - Bucket: 3.6 m³ (4.7 yd³)
  - Shovel: 610 mm (24")

- **Counterweight: 9.8 t (21,610 lb)**
  - Rating at maximum reach

**Lifting Capacity**

- **Unit: kg (lb)**

**HEAVY LIFTING "ON"**

- **Unit: kg (lb)**

**Loading Shovel Dimensions**

- **Loading Shovel Dimensions**
  - 610 mm
  - 7700 kg
  - 125 kPa/2.7 kg/cm²
  - 24" 169,750 lb
## PC800-8

### Equipment:
- **Boom**: 8.2 m (26'11'')
- **Arm**: 5.6 m (18'4'')
- **Bucket**: 2.8 m³ (3.66 yd³)
- **Shoe**: 610 mm (24'')

### Lifting Capacity

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Unit: kg lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Reach from swing center</td>
<td><strong>B</strong> Bucket hook height</td>
</tr>
<tr>
<td><strong>Cl</strong></td>
<td><strong>Ct</strong></td>
</tr>
<tr>
<td><strong>9.0 m</strong> (19')</td>
<td><strong>7090</strong></td>
</tr>
<tr>
<td><strong>9.5 m</strong> (31')</td>
<td><strong>8400</strong></td>
</tr>
<tr>
<td><strong>9.8 m</strong> (32')</td>
<td><strong>8960</strong></td>
</tr>
</tbody>
</table>

### Load

- **Maximum**: 9.8 t (21.8 U.S.ton)
- **Clad**: 7.9 t (17.1 U.S.ton) with the same weight and dimensions.

### Bucket

- **Unit**: 4.4 U.S.ton (10.9 U.S.ton x 2)
- **Weight**: 18.1 t (39.9 U.S.ton)

### Work equipment assembly (Backhoe)

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>23'4''</td>
<td>11'6''</td>
<td>7'7''</td>
</tr>
<tr>
<td><strong>B</strong>: Bucket hook height</td>
<td><strong>A</strong>: Reach from swing center</td>
<td></td>
</tr>
</tbody>
</table>

### Work equipment assembly (Backhoe)

<table>
<thead>
<tr>
<th>Weight</th>
<th><strong>PC800-8</strong>:</th>
<th><strong>PC800SE-8</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 t</td>
<td>2.3 t</td>
<td>2.2 t</td>
</tr>
</tbody>
</table>

### Counterweight:

<table>
<thead>
<tr>
<th><strong>PC800-8</strong>:</th>
<th><strong>PC800SE-8</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.4 t</td>
<td>5.0 t</td>
</tr>
</tbody>
</table>

### Boom: 23.4 U.S.ton

- **11.7 U.S.ton x 2**
- **Weight**: 21.2 t (46.6 U.S.ton)

### Arm: 2.8 U.S.ton

- **2.9 m³ (3.4 yd³) x 2**
- **Weight**: 5.6 t (12.4 U.S.ton)

### Loading Shovel

<table>
<thead>
<tr>
<th>Weight</th>
<th><strong>PC800-8</strong>:</th>
<th><strong>PC800SE-8</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7 t</td>
<td>3.5 t</td>
<td>3.6 t</td>
</tr>
</tbody>
</table>

### Work equipment assembly (Loading shovel)

<table>
<thead>
<tr>
<th>Weight</th>
<th><strong>PC800-8</strong>:</th>
<th><strong>PC800SE-8</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6 t</td>
<td>5.5 t</td>
<td>5.7 t</td>
</tr>
</tbody>
</table>

### Upper Structure

<table>
<thead>
<tr>
<th>Weight</th>
<th><strong>PC800-8</strong>:</th>
<th><strong>PC800SE-8</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8 t</td>
<td>3.7 t</td>
<td>3.8 t</td>
</tr>
</tbody>
</table>

### Others

<table>
<thead>
<tr>
<th>Weight</th>
<th><strong>PC800-8</strong>:</th>
<th><strong>PC800SE-8</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2 t</td>
<td>6.0 t</td>
<td>6.3 t</td>
</tr>
</tbody>
</table>

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*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. 2937. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*