**STANDARD EQUIPMENT**

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

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

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

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

**OPERATOR ENVIRONMENT:**
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, fire extinguisher, cigarette lighter and ashtray
- Instrument panel with electronic display/monitor system, electronically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check lights (cooler, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Rearview mirrors, left and right
- Seat, fully adjustable with suspension
- Cab with fixed front window

**HYDRAULIC CONTROLS:**
- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- One gear pump for control circuit
- Two axial piston motors for swing with single-stage relief valve
- One axial piston motor per track for travel with counter balance valve
- Three variable capacity piston pumps (2 Main, 1 Swing)
- Three control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler
- In-line high pressure filters
- Shockless boom control
- Two-mode setting for boom

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

**OTHER STANDARD EQUIPMENT:**
- Automatic swing holding brake
- Corrosion resister
- Counterweight, 18000 kg
- Horn, air
- Marks and plates, English
- Paint, Komatsu standard
- Vandalism protection locks
- Wide catwalk
- Large handrails
- One-touch engine oil drainage
- FM tune-up service connector
- Travel alarm
- Rear reflector
- Anti-slip plates
- Cab with pull-up type front window
- Communication system for VHMS (Orbcomm)
- General tool kit
- Grease gun, air pump
- Heater
- Interconnected horn and flashing light
- Radios AM/FM
- Seat belt 78 mm 3”
- Shoes
- 1000 mm 39.4” double grouser
- Spare parts for first service
- Track roller guard (full length)
- Track frame undercover (center)
- Vehicle Health Monitoring System (VHMS)

**OPTIONAL EQUIPMENT**

**ENGINE AND RELATED ITEMS:**
- Alternator, 90 Amp, 24 V
- Arms (Backhoe):
  - 3400mm 11’2” arm assembly
  - 3400mm 11’2” HD arm assembly
  - 4500mm 14’9” arm assembly
  - 4500mm 14’9” HD arm assembly
  - 5700mm 18’8” arm assembly
- Arms (Loading shovel):
  - 3800mm 12’6” arm assembly
  - 5300mm 17’5” arm assembly

**ELECTRICAL SYSTEM:**
- Auto air conditioner
- Automatic grease system, Lincoln 18 hr
- Booms (Backhoe):
  - 7800mm 25’7” SP boom assembly
  - 9100mm 29’10” boom assembly
- Booms (Loading shovel):
  - 6300mm 17’5” boom assembly
  - 6000mm 19’11” boom assembly

**GUARDS AND COVERS:**
- Cab with pull-up type front window
- Communication system for VHMS (Orbcomm)
- General tool kit
- Grease gun, air pump
- Heater
- Interconnected horn and flashing light
- Radios AM/FM
- Seat belt 78 mm 3”
- Shoes
- 1000 mm 39.4” double grouser
- Spare parts for first service
- Track roller guard (full length)
- Track frame undercover (center)
- Vehicle Health Monitoring System (VHMS)

**OPERATOR ENVIRONMENT:**
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, fire extinguisher, cigarette lighter and ashtray
- Instrument panel with electronic display/monitor system, electronically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check lights (cooler, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Rearview mirrors, left and right
- Seat, fully adjustable with suspension
- Cab with fixed front window

**HYDRAULIC EXCAVATOR**
**Productivity Features**

- **Heavy Lift Mode**
  The heavy lift mode increases lifting force by 10%.

- **Large Digging Force**
  High operation efficiency with large digging force for severe applications.

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

- **Twin Swing Motor System** provides excellent swing performance, even on slopes.

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

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

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

See page 5.

**Easy Maintenance**

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

- **Centralized Arrangement of Engine Checkpoints**

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

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

See page 10.

**Excellent Reliability and Durability**

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

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

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

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

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

- **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 SAA6D170E-5 Engine Meets 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**
  - 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
  - OPS 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).**

- **Two working modes combine with heavy lift mode for maximum productivity.**

See page 5.
Komatsu Technology

Environment-friendly Clean Engine Mounted

The PC1250-8, which is equipped with the Komatsu SAA6D170E-5 engine, meets the Tier 3 emission certified in North America (EPA) and EU stage 3A. The SAA6D170E-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.

Electronic 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.

Electronic Control System

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

Pump for fan

Electronic control unit for engine

Electronically controlled variable speed fan

Hydraulic system controller

LCD color monitor

Engine

High Pressure Common Rail (HPCR) system

Electronically controlled cooled EGR system

Hydraulic control valve

Main pump

Pump for fan

Power Mode

Economy Mode

Heavy Lift Mode

Swing Priority Mode

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

Large Drawbar Pull and Steering Force

Since the machine has a large drawbar pull and a high steering force, it demonstrates excellent mobility even when it is being used on inclined sites.

Working Mode Selection

Power and Economy Mode

The PC1250-8 excavator is equipped with two working modes. Each mode is designed to match engine speed, pump flow, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Power Mode</td>
<td>• Maximum production/power • Fast cycle time</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.

Large Drawbar Pull

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

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

Large Drawbar Pull and Steering Force

Since the machine has a large drawbar pull and a high steering force, it demonstrates excellent mobility even when it is being used on inclined sites.

Two-mode Setting for Boom

- Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to power mode for more effective excavating.
- Shockless Boom Control

Shockless Boom Control

The PC1250-8 boom circuit features a shockless valve (double-check slow return valve) to automatically reduces the amount of vibration present when operating the boom. Operator fatigue is reduced (which can improve safety and productivity), and spillage caused by vibration is minimized.

Power Mode

Economy Mode

Heavy Lift Mode

Swing Priority Mode

Electronically Controlled Variable Speed Fan

Contributes to Low Fuel Consumption and Low Noise

The electronic control system sets the rotational speed of the cooling fan according to the coolant, hydraulic oil, and ambient temperature; effectively uses the engine output to prevent wasteful fuel consumption; and reduces noise during low-speed fan rotation.

Lower and Economical Fuel Consumption Using Economy Mode

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

Reduction of Ambient Noise

Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan, low-noise muffler and cover with glasswool. Komatsu will launch PC1250 with lower-noise specifications to the EU market.
Excellent Reliability and Durability

**Boom Foot Hoses**
The boom foot hoses are arranged under the boom foot to reduce hose bend during operation, extending hose life and improving operator safety.

**Strengthened Boom and Arm**
Thanks to the large cross-sectional structure employing a high tensile strength steel with a thick plate, partition wall, etc., the boom and arm exhibit excellent durability and are highly resistant to bending and torsional stress.

**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.

**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.

**OX Tooth**

**Steps for Tooth Replacement**

**STEP 1**

**STEP 2**

**STEP 3**

**STEP 4**

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

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

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

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

**Sturdy guards**

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

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

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

**Quarry Bucket with XS Tooth**

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

**Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)**
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life. Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life XS teeth, durability of bucket is drastically enhanced.

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

**Step 1**

**Step 2**

**Step 3**

**Step 4**

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

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

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

The cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

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

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

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

Low Vibration with Cab Damper Mounting
PC1250-8 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck, aids vibration reduction at the operator’s seat.

Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL).

dB (VL) is index for expressing size of vibration.

Automatic Air Conditioner (optional)
A 6,900 kcal air conditioner is utilized. The bi-level control function keeps the operator’s head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year.

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.

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

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

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

Photo may include optional equipment.

Photo may include optional equipment.

Comparison of Riding Comfort

Vertical direction on graph shows size of vibration.

Safety Features

Step light with timer provides light for about one minute to allow the operator to get off the machine safely.

Pump/engine room partition prevents oil from spraying on the engine if a hydraulic hose should burst.

Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

Anti-slip Plates
Spiked plates on working surfaces provide anti-slip performance.

Anti-Slip Plates
Horn interconnected with warning light (optional) give visual and audible notice of the excavator’s operation when activated.
**EASY MAINTENANCE FEATURES**

**Komatsu Designed the PC1250-8 for Easy Service Access.**

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

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

**Easy Cleaning of Radiator**
The hydraulically driven fan can be reversed to facilitate cleaning of the cooling unit. In addition, this feature contributes to reducing warm-up time in low temperatures.

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

**Reduced Maintenance Costs**
Hydraulic oil filter replacement is extended from 500 to 1000 hours.

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

**Electric priming pump**
Bleeding air from fuel system is easily accomplished with the electric priming pump.

**Easy Cleaning of Radiator**
The hydraulically driven fan can be reversed to facilitate cleaning of the cooling unit. In addition, this feature contributes to reducing warm-up time in low temperatures.

**High-Quality EMMS Self-diagnostic System**
- **Abnormality Checking Function**
  - If any abnormality should occur, the monitoring system checks whether hydraulic pressures, solenoid ON/OFF status, engine speed, electrical connections, etc. are within normal condition to keep machine downtime to a minimum.
  - **Maintenance History Memory Function**
    - Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored. Operator is warned when service is due.
  - **Trouble Data Memory Function**
    - Trouble data is stored to serve as references for future trouble-shooting. Error codes are displayed to aid in service diagnosis.

**VHMS (Vehicle Health Monitoring System) (optional)**
VHMS controller monitors the health conditions of major components and enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.
**PC1250-8 HYDRAULIC EXCAVATOR**

### SPECIFICATIONS

#### ENGINE
- **Model:** Komatsu SAA4D170E-5
- **Type:** 4-cylinder, water-cooled, direct injection
- **Aspiration:** Turbocharged, aftercooled, cooled EGR
- **Number of cylinders:** 6
- **Bore:** 170 mm (6.69"")
- **Stroke:** 170 mm (6.69"")
- **Piston displacement:** 23.15 x 1413 in³
- **Governor:** All-speed, electronic
- **Horsepower:** SAE J1995: Gross 514 kW (688 HP)
- **Rated Power:** ISO 9249 / SAE J1349*: Net 252 kW (338 HP)
- **Rated rpm:** 1800 rpm
- **Fan drive type:** Hydraulic
- **EPA Tier 3 and EU Stage IIIA emission certified.**

#### HYDRAULIC SYSTEM
- **Type:** Open-center load-sensing system
- **Number of selectable working modes:** 2

#### HYDRAULIC EXCAVATOR

<table>
<thead>
<tr>
<th>Backhoe</th>
<th>25'7&quot; boom</th>
<th>29'10&quot; boom</th>
<th>33'11&quot; boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. digging height</td>
<td>12'10&quot;</td>
<td>12'11&quot;</td>
<td>13'0&quot;</td>
</tr>
<tr>
<td>Rated rpm</td>
<td>1800 rpm</td>
<td>1800 rpm</td>
<td>1800 rpm</td>
</tr>
<tr>
<td>Fan drive type</td>
<td>Hydraulic</td>
<td>Hydraulic</td>
<td>Hydraulic</td>
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<tr>
<td>Governor</td>
<td>All-speed, electronic</td>
<td>All-speed, electronic</td>
<td>All-speed, electronic</td>
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<tr>
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<td>720 HP</td>
<td>774 HP</td>
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<td>Piston displacement</td>
<td>170 mm</td>
<td>170 mm</td>
<td>170 mm</td>
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<tr>
<td>Stroke</td>
<td>23.15 x 1413 in³</td>
<td>23.15 x 1413 in³</td>
<td>23.15 x 1413 in³</td>
</tr>
<tr>
<td>Operating Ground</td>
<td>1 x 158.5 U.S. gpm</td>
<td>1 x 160.2 U.S. gpm</td>
<td>1 x 160.2 U.S. gpm</td>
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<tr>
<td>Pumps for</td>
<td>Backhoe, arm, bucket, swing, and travel circuits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>poultry crossing</td>
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<td></td>
</tr>
<tr>
<td>Undercarriage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backhoe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. digging depth</td>
<td>5.9 m (19.3 ft)</td>
<td>5.6 m (18.0 ft)</td>
<td>5.5 m (18.0 ft)</td>
</tr>
<tr>
<td>Rated rpm</td>
<td>1800 rpm</td>
<td>1800 rpm</td>
<td>1800 rpm</td>
</tr>
<tr>
<td>Fan drive type</td>
<td>Hydraulic</td>
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</tr>
<tr>
<td>Power source</td>
<td>-2-3-4-5-6-7-8-9</td>
<td>-2-3-4-5-6-7-8-9</td>
<td>-2-3-4-5-6-7-8-9</td>
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<tr>
<td>Piston displacement</td>
<td>170 mm</td>
<td>170 mm</td>
<td>170 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>23.15 x 1413 in³</td>
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<td>Operating Ground</td>
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<td></td>
</tr>
<tr>
<td>poultry crossing</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### DRIVES AND BRAKES
- **Steering control:** Two levers with pedals
- **Drive method:** Fully hydrostatic
- **Travel motor:** Turbocharged, in-shoe design
- **Reduction system:** Planetary double reduction
- **Maximum drawbar pull:** 686 kW 7000 kgf 1543 lb
- **Gradability:** 70%
- **Maximum travel speed:**
  - Low: 2.11 mph
  - High: 3.2 mph
- **Service brake:** Hydraulic lock

#### UNDERCARRIAGE
- **Center frame:** H-frame
- **Track frame:** Full-section
- **Seal of track:** Sealed
- **Track adjuster:** Hydraulic
- **No. of shoes:** 48 each side
- **No. of carrier rollers:** 3 each side
- **No. of track rollers:** 8 each side

#### COOLANT AND LUBRICANT CAPACITY

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>1360 ltr 359.3 U.S. gal</td>
</tr>
<tr>
<td>Radiator</td>
<td>142 ltr 37.5 U.S. gal</td>
</tr>
<tr>
<td>Engine</td>
<td>46 ltr 10.2 U.S. gal</td>
</tr>
<tr>
<td>Final drive, each side</td>
<td>21 ltr 5.5 U.S. gal</td>
</tr>
<tr>
<td>Swing drive</td>
<td>20.2 ltr 5.3 U.S. gal</td>
</tr>
<tr>
<td>PTO</td>
<td>13.5 ltr 3.5 U.S. gal</td>
</tr>
</tbody>
</table>

#### OPERATING WEIGHT

<table>
<thead>
<tr>
<th>Type</th>
<th>Approximate Operating Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1250-8</td>
<td>44,550 kgf / 98,180 lb</td>
</tr>
<tr>
<td>PC1250SP-8</td>
<td>48,800 kgf / 107,300 lb</td>
</tr>
</tbody>
</table>

#### BACKHOE

PC1250-8:
- Operating weight: 9100 mm (29’10” boom), 3400 mm (11’2” arm)
- SAE, heaped bucket: 8.8 m³ (30.5 yd³)
- Bucket digging force (ISO): 8.380 kN (1883 lbf)
- Backhoe digging force (ISO): 8.380 kN (1883 lbf)
- Backhoe digging force (SAE): 8.380 kN (1883 lbf)

PC1250SP-8:
- Operating weight: 7700 mm (25’7” boom), 3400 mm (11’2” arm)
- SAE, heaped bucket: 8.8 m³ (30.5 yd³)
- Bucket digging force (ISO): 8.380 kN (1883 lbf)
- Backhoe digging force (ISO): 8.380 kN (1883 lbf)

#### WORKING RANGE

<table>
<thead>
<tr>
<th>Bucket</th>
<th>8.8 m³ (30.5 yd³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine power</td>
<td>672 HP (502 kW)</td>
</tr>
<tr>
<td>Engine speed</td>
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</tr>
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<td>142 ltr (37.5 U.S. gal)</td>
</tr>
<tr>
<td>Engine capacity</td>
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</tr>
<tr>
<td>Final drive capacity</td>
<td>21 ltr (5.5 U.S. gal)</td>
</tr>
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<td>20.2 ltr (5.3 U.S. gal)</td>
</tr>
<tr>
<td>PTO capacity</td>
<td>13.5 ltr (3.5 U.S. gal)</td>
</tr>
</tbody>
</table>

### BUCKET CAPACITY (HEAPED)

<table>
<thead>
<tr>
<th>Bucket</th>
<th>8.8 m³ (30.5 yd³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine power</td>
<td>672 HP (502 kW)</td>
</tr>
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</tbody>
</table>

### HYDRAULIC EXCAVATOR

<table>
<thead>
<tr>
<th>Operating Weight</th>
<th>44,550 kgf / 98,180 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine power</td>
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</tr>
</tbody>
</table>

### BUCKET, ARM, AND BOOM COMBINATION

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<tr>
<th>Operating Weight</th>
<th>44,550 kgf / 98,180 lb</th>
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<tr>
<td>Engine power</td>
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</table>

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

**General purpose use, density up to 1.3 m³/3300 lb/yd³**
**General purpose use, density up to 1.5 m³/4000 lb/yd³**
**Not usable**
**LOADING SHOVEL DIMENSIONS**

**LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION**

**Bucket Selection**

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity-heaped</td>
<td>6.5 yd³</td>
</tr>
<tr>
<td>A</td>
<td>Maximum</td>
</tr>
<tr>
<td>B</td>
<td>Bottom dump</td>
</tr>
</tbody>
</table>

**Working Range**

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity-heaped</td>
<td>6.5 yd³</td>
</tr>
<tr>
<td>A</td>
<td>Max. digging height</td>
</tr>
<tr>
<td>B</td>
<td>Max. dumping height</td>
</tr>
<tr>
<td>C</td>
<td>Max. digging depth</td>
</tr>
<tr>
<td>D</td>
<td>Max. digging reach</td>
</tr>
<tr>
<td>E</td>
<td>Max. lifting height at grapple level</td>
</tr>
<tr>
<td>F</td>
<td>Max. lifting height at grapple level</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.**

**PC1250-8**

**Equipment:**
- Boom: 8.1 m 29°10’
- Arm: 4.5 m 14°9’
- Bucket: 4.0 m³ 5.2 yd³
- Bucket weight: 3800 kg 8380 lb
- Track shoe width: 20’7” 6.1 m
- Track: 7.0 m 22’6”

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

**Capacity–heaped 6.5 m³**

<table>
<thead>
<tr>
<th>Unit: lbg.</th>
<th>32.2 m³</th>
<th>18.7 m³</th>
<th>9.0 m³</th>
<th>7.6 m³</th>
<th>6.1 m³</th>
<th>4.6 m³</th>
<th>3.2 m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 m</td>
<td>15950</td>
<td>12200</td>
<td>10600</td>
<td>9000</td>
<td>7500</td>
<td>6200</td>
<td>5000</td>
</tr>
<tr>
<td>12.0 m</td>
<td>20500</td>
<td>16300</td>
<td>14200</td>
<td>12000</td>
<td>10200</td>
<td>8400</td>
<td>7000</td>
</tr>
<tr>
<td>15.0 m</td>
<td>25100</td>
<td>20600</td>
<td>18100</td>
<td>15800</td>
<td>13600</td>
<td>11500</td>
<td>9500</td>
</tr>
<tr>
<td>18.0 m</td>
<td>29700</td>
<td>24300</td>
<td>21500</td>
<td>18900</td>
<td>16500</td>
<td>14300</td>
<td>12500</td>
</tr>
<tr>
<td>21.0 m</td>
<td>34300</td>
<td>28600</td>
<td>25400</td>
<td>22400</td>
<td>20000</td>
<td>17600</td>
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**A: Maximum 12.2 m³**

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<th>Unit: lbg.</th>
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<td>15700</td>
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**B: Bucket hook height**

**C: Lifting capacity**

**D: Rating over front**

**E: Rating over side**

**F: Rating at maximum reach**
### LIFTING CAPACITY

#### PC1250-8

**Equipment:**
- **Boom:** 7.8 m (25’7”)
- **Arm:** 5.4 m (17’6”)
- **Bucket:** 6.7 m³ (88 yd³)
- **Bucket weight:** 6300 kg (13860 lb)
- **Track width:** 700 mm (28”)
- **Rating:** Reach over side
- **Rating:** At maximum reach

**Dimensions:**
- **Length:** 6’3”
- **Height:** 8’2”
- **Width:** 2’11”

**Weight:**
- **Upper structure:** 25.3t
- **Boom:** 4.0t
- **Arm cylinder:** 1.0t
- **Bucket:** 6.5t

**Equipment:**
- **PC1250-8**
  - **Weight:** 25.3t
  - **Length:** 9’10”
  - **Width:** 3’8”
  - **Height:** 8’8”

**Work equipment assembly (Backhoe):**
- **Height:** 14’10”
- **Width:** 5’1”
- **Depth:** 2’6”

**Spaces shown include the following equipment:**
- **Backhoe:** boom 9100 mm (29’10”), arm 3400 mm (11’2”), bucket 5.0 m³ (6.5 yd³), shoes 700 mm (28”) double grousers

**Transportation volume (length x height x width):**
- **PC1250:** 27.9 m³
- **PC1250SP:** 28.0 m³

**Transportation:**
- **Weight:** 31.8t (105,000 lbs)
- **Length:** 30’2”
- **Height:** 11’6”
- **Width:** 8’2”

---

### WHEEL LOADER

#### PC1250SP-8

**Equipment:**
- **Reach:** 10.8 m (35’6”)
- **Lifting capacity:** 45,000 lb
- **Rating over front:** 35,000 lb
- **Rating over side:** 30,000 lb
- **Rating at maximum reach:** 25,000 lb

**Dimensions:**
- **Length:** 6’0”
- **Height:** 11’6”
- **Width:** 5’11”

**Weight:**
- **1.6 ton:** 18’4” x 7’5” x 5’0”
  - **Weight:** 40,100 lb
  - **Length:** 12’6”
  - **Height:** 11’0”
  - **Width:** 3’0”

**Equipment:**
- **PC1250SP-8**
  - **Weight:** 28.0 m³
  - **Length:** 26’0”
  - **Width:** 11’0”
  - **Height:** 9’0”

**Transportation volume (length x height x width):**
- **PC1250SP:** 28.0 m³
- **PC1250SP:** 28.0 m³

**Transportation:**
- **Weight:** 30’2”
- **Length:** 31’0”
- **Height:** 11’0”
- **Width:** 8’2”

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### Notes

- All weights and capacities are based on SAE standard No. J297.
- Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
- Bucket weights include the weight of the bucket itself.

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**PC1250:** 25.9 m³
28.0 m³
28.0 m³