PC2000-8 BACKHOE
PC2000-8 LOADING SHOVEL

HORSEPOWER
Gross: 728 kW 976 HP @ 1800 rpm
Net: 713 kW 956 HP @ 1800 rpm

OPERATING WEIGHT
Backhoe: 200000–204120 kg
440,920–450,000 lb
Loading shovel: 195000 kg
429,900 lb

Photo may include optional equipment
Productivity and Economy

- **Fuel Efficient Machine Achieved by Total Power Management and Advanced Hydraulic System**
  - Hydraulic power loss reduced with advanced hydraulic system
  - On-demand fan speed and engine output control system
  - Equipped with electronically controlled variable speed fans

- **Powerful and Economical Engine**
  - Komatsu SAA12V140E-3 Engine with an Output of 713 kW (956 HP)
  - Controlled by Efficient Power Management System
    - Auto deceleration and auto idling system
    - Two work modes; Power and Economy

Ecology

- **EPA Tier 2 Emission Certified Komatsu Engine**

- **New Technology Produces Remarkably Low Environmental Noise**
  - Dynamic noise of 64.5 dB(A)
    - Power module packaging and noise absorbing blades trap noise inside
    - Contoured hybrid fan minimizes air turbulence noise
Operator Comfort
● Newly Designed Mining Shovel Cab Provides Comfortable Operation
  • Excellent operational visibility with extended front wind shield and large twin wipers
  • Extremely low noise and vibration
  • Rugged OPG top guard integrated into the cab
  • Easy-to-see and easy-to-use 7-inch TFT-LCD large monitor
  • Comfortable air-suspension seat
  • Automatic air conditioner
  • Highly pressurized cab

● Bulkhead between Pump Room and Engine
● Engine Stop Devices
● Interconnected Horn and Flashing Light

Easy Repair and Maintenance
Low R&M Cost Sustained by Simplified and Reliable System with Long Service Life

● Simplified and Durable Structure
  • Single engine and PTO drive two Komatsu HPV375+375 pumps
  • Simplified travel unit with single motor (each side)
  • Reinforced track components
  • Long life oil and filters
  • Extended life of rubber components achieved by lowering hydraulic oil temperature

● Power Module Makes Installation and Removal of Components Easier, and Reduces Overhaul Hours and Cost

● Service Friendly Design
  • Maintenance deck surrounding the power module
  • Drain ports accessible from ground level
  • Concentration of filters
  • Large fuel tank enables 24 hours continuous machine operation
  • Auto-greasing system, including bucket pins, with 200 liter 52.8 U.S. gal grease tank

● VHMS Monitors the Machine Condition and Minimizes Machine Down Time

Photo may include optional equipment.
In complete pursuit of total cost reduction and eco-friendliness
Evolutionary Komatsu technologies

Komatsu Technology
Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this “Komatsu Technology,” and through 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 economical excavators.

Powerful and Fuel Efficient Machine Achieved by Total Power Management
PC2000-8 is equipped with the new Komatsu SAA12V140E engine that features clean, fuel efficient, and powerful performance. Power losses in hydraulic system, cooling fan, and PTO are reduced. Total Power Management using On-demand Power Control System succeeds in drastically reducing the fuel consumption per hour. The machine has enhanced functions that contribute to energy-saving operation including adjustable ‘E mode’ and ‘Eco-gauge’. The PC2000-8 is a new generation, clean, and economical machine.
**High Power Komatsu Engine 713 kW (956 HP)**

Equipped with a high efficiency turbocharger with large air-to-air after-cooler, the engine delivers high output of 713 kW **956 HP**. The ample engine power enables an increase in work efficiency. The clean engine is EPA Tier 2 emissions certified.

**Heavy Lift Mode**

Turning the heavy lift mode switch on activates the all-out power delivery system to increase the lifting force of the boom. This mode is beneficial when handling rock and during heavy lifting applications.

**Selectable Working Modes**

Two established work modes are further improved. You can select Power or Economy modes using a one-touch operation on the monitor panel. Two E-mode settings available, enabling the operator to select the mode that delivers the best combination of production and fuel efficiency for the working conditions.

**Advanced Environmentally Friendly Features**

**Eco-gauge**

The Eco-gauge is provided on the right side of the monitor screen for energy saving operation. The gauge informs the operator of cumulative achievement to a predetermined fuel consumption target. By keeping the gauge indication within the green range, the operator can perform fuel-efficient operation to meet the target value.

**Idling caution**

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

**Auto deceleration and auto idling system**

The machine is equipped with the auto deceleration system (1400 rpm), reducing operating noise as well as fuel consumption. The auto idling system enables the engine idling speed to be set at a lower speed.

**Power module packaging for ultra low-noise operation**

Noise sources such as the engine, cooling fan, and hydraulic pumps are packaged in the machinery house. Large sound absorbing blades attached on the air intake and exhaust outlet block noise transmission. Combined with the contoured hybrid cooling fan, the machine realizes environmentally-friendly operation with amazingly low-noise.
Designed and built for total cost reduction
The evolution of reliability and durability

Reduced Inspection/Maintenance and Overhaul Man-Hours Achieves Total Cost Reduction

Power module packaging for easy installation and removal of components
Engine, radiator, oil cooler, hydraulic pumps, and PTO are packaged within the Power module. This design facilitates installation and removal of components, contributing to the reduction of maintenance, transportation, and overhaul hours.

Repair & Maintenance Cost Drastically Reduced
Simple construction and enlarged components reduce the number of parts
Use of a single-engine, enlarged hydraulic pumps, and simplified hydraulic circuit enables reduced hours required for checking and maintenance. Moreover, significant reduction of number of parts contributes to reduction of overhaul man-hours, resulting in total cost reduction.

High cooling efficiency machine design
Increased oil cooler capacity lowers the heat balance temperature of the hydraulic oil to realize a cooler operating machine. Heat-resistant rubber seals are used in hydraulic pumps and cylinders to significantly increase component durability. These improvements dramatically extend the service life of the hydraulic system.

Strengthened Frame Structure
Revolving frame, center frame, and crawler frame are strengthened completely. The frames endure heavy-duty work and exhibit excellent durability.

Durable Swing Circle with Triple-Roller Bearing
Large capacity triple-roller bearing is used for the swing circle. The swing circle endures heavy-duty excavating and loading work, and exhibits excellent durability.

Sturdy Guard/Large Track Link
Travel motors are shielded by sturdy guards. They prevent the motors from being damaged by the thrust of rocks. Enlarged track rollers, in combination with the largest track links, provide excellent durability.
Heavy-Duty Rock Bucket (optional)
Packaged wear-resistant reinforcement plates are available. The repair cost of the bucket can be considerably reduced with the new design.

* KVX materials:
Komatsu developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180kgf/mm² 256,000 psi class). Features high wear-resistance and less heat-induced alteration during rock digging, maintaining long term hardness.

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

Arm Rock Protector Guards the Arm Against Impact
Arm rock protector is standard equipment. The protector guards the arm greasing piping against impact.

Wear-Resistant Floating Pins
Boom top pin and arm top pin are the floating type. Since the pin can freely rotate, it receives less friction load and exhibits excellent reliability and durability.
Sustained high level performance
An achievement in the evolution of maintenance

VHMS (Vehicle Health Monitoring System)
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.

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

Maintenance function
Monitor indicates replacement time of oil and filters on LCD and warns the operator when service is due.

Trouble data memory function
Monitor stores abnormalities for effective troubleshooting.

Remote Drain Piping Enables Drainage From Ground Level
Remote drain piping provided to drain hydraulic oil, PTO oil, engine oil, and coolant enable performing draining from ground level.

Ground Level Refueling System (optional)
Optional remote refueling hose enables ground level refueling.

Large Fuel Tank
3400 ltr 898 U.S. gal large fuel tank enables continuous operation for 24 hours.

Advanced Layout for Easy Checking and Maintenance
Catwalk surrounding the power module and center walkway provides easy access to the inspection and maintenance points.

Centralized Filters
Centralized filters contribute to easy maintenance.

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

Maintenance function
Monitor indicates replacement time of oil and filters on LCD and warns the operator when service is due.

Trouble data memory function
Monitor stores abnormalities for effective troubleshooting.

Remote Drain Piping Enables Drainage From Ground Level
Remote drain piping provided to drain hydraulic oil, PTO oil, engine oil, and coolant enable performing draining from ground level.

Ground Level Refueling System (optional)
Optional remote refueling hose enables ground level refueling.

Large Fuel Tank
3400 ltr 898 U.S. gal large fuel tank enables continuous operation for 24 hours.
**Automatic Greasing System**
Greasing of the work equipment and bucket is fully automated. Greasing is hassle-free since the system carries out automatic greasing at regular time intervals.

**Large Capacity Grease Tank and Easy-to-supply Refill Piping (optional)**
The machine is equipped with 200 ltr 52.8 U.S. gal large capacity grease tank enough to perform 24 hours operation. Optional remote refill enables grease supply to the tank from ground level.

**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.

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

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

**Dust Indicator with Five-step Indication**
Informs of air cleaner clogging in five steps.
“Operator-first” concept in every corner of the machine
An achievement in the evolution of operator performance

Excellent Operational Visibility
Downward visibility is greatly improved by the extended front windshield offering the operator a better view of machine footing. The new interior arrangement, in combination with wide glass windows, improves visibility on the work equipment side and provides excellent visibility of the surroundings.

New Operator Cab Specially Designed for Mining
New operator cab provides a comfortable working environment. Sturdy cab of solid construction, with integrated top guard conforming to OPG level 2.

Large Twin Wipers
Large twin wipers cover the windshield area and provide excellent front visibility even in the rain.

Dual Rearview Mirrors
Mirrors provide excellent visibility in the left rear field of vision.

Step Light with Timer
Step light with timer provides light for 90 seconds.
**Engine Stop Devices & Fuel Cut-Off Lever**
Engine stop devices are provided at two points on the power module as standard equipment. Engine start lock function of the switch is used during maintenance work. In addition, a fuel cut-off lever provided on the revolving frame allows stopping the engine from the ground.

**Bulkhead Wall**
The bulkhead wall separates the engine and pump rooms.

**High Intensity Discharge (HID) Working Light (optional)**
HID working light with double the luminance of a conventional halogen lamp is available for night work.

**Interconnected Horn and Flashing Light**
Allows the operator to give visual and audible notice to the dump truck operator.

**Rearview Monitoring System (optional)**
Up to three video cameras can be installed to monitor the rear of the machine (full-screen or split-screen display selectable).
**Spacious and Comfortable New Cab Design**
Large cab designed for exclusive use in mining shovels provides enough space to relax during operation. The cab with improved air tightness is pressurized to help prevent dust from entering. Combined with a large capacity twin air conditioner that cools and heats the cab effectively, ample and comfortable operating environment is realized.

**Comfortable Operating Environment with Same Level of Low Noise as Passenger Cars**
Integral structure of cab and new damper mounts, in combination with power module packaging, attain outstanding low noise and vibration in the cab, equivalent to passenger cars.

**Cab volume 30% increased**
Compared with PC1800-6

**Comfortable Air Suspension Seat**
The seat with air suspension minimizes and softens vibrations transmitted to the operator. The seat can be adjusted in a number of ways to accommodate the operator’s weight and physique.

**Noise level 64.5 dB(A)**
In the cab at max. engine speed under no-load condition
Easy-to-See and Easy-to-Use
Large 7-inch TFT-LCD Monitor

The machine is equipped with a large 7-inch TFT-LCD monitor. Panel visibility is significantly improved by the use of the high-resolution TFT-LCD panel. The panel switch group is easy-to-use, enabling switch over of engine output and increase of lifting force during operation. Furthermore, use of function key enables the operator to perform multi-functions with ease. Character display can be selected among nine languages.
**SPECIFICATIONS**

**ENGINE**
- Model: Komatsu SAA12V140E-3
- Type: 4-cycle, water-cooled, direct injection
- Aspiration: Turbocharged, aftercooled
- Number of cylinders: 12
- Bore: 140 mm 5.51"
- Stroke: 165 mm 6.50"
- Piston displacement: 30.48 ltr
- Governor: All-speed, electronic
- Horsepower: SAE J1995, Gross 728 kW 976 HP
  ISO 9249 / SAE J1349, Net 713 kW 956 HP
- Hydraulic fan at maximum speed: 679 kW
- ISO 9249 / SAE J1349, Net 713 kW 956 HP
- Hydraulic fan at maximum speed: 679 kW

**HYDRAULIC SYSTEM**
- Type: Open-center load sensing system
- Number of selectable working modes: 2
- Main pump:
  - Type: Variable displacement piston pumps
  - Pumps for: Boom, arm, bucket, swing and travel circuits
  - Maximum flow:
    - For attachment, swing and travel: 2317 ltr/min 612.2 U.S. gpm
    - For fan drive: 324 ltr/min 85.6 U.S. gpm
- Hydraulic motors:
  - Travel: 2 x axial piston motors with swing holding brake
  - Swing: 2 x axial piston motors with swing holding brake
  - Fan: 2 x axial piston motors
- Relief valve setting:
  - Attachment circuits
    - Backhoe: 29.4 MPa 300 kgf/cm² 4,270 psi
    - Loading shovel: 29.4 MPa 300 kgf/cm² 4,270 psi
    - Travel circuit: 32.9 MPa 355 kgf/cm² 4,760 psi
    - Swing circuit: 29.4 MPa 300 kgf/cm² 4,270 psi
    - Pilot circuit: 2.9 MPa 30 kgf/cm² 430 psi
- Hydraulic cylinders:
  - Number of cylinders—bore x stroke
    - Backhoe:
      - Boom: 2 – 300 mm x 2647 mm 11.8" x 104.2"
      - Arm: 2 – 250 mm x 2138 mm 9.8" x 84.2"
      - Bucket: 2 – 200 mm x 2170 mm 7.9" x 85.4"
    - Loading shovel:
      - Boom: 2 – 280 mm x 1930 mm 11.0" x 76.0"
      - Arm: 2 – 200 mm x 2170 mm 7.9" x 85.4"
      - Bucket: 2 – 225 mm x 2050 mm 8.9" x 80.7"
      - Bottom dump: 2 – 180 mm x 600 mm 7.1" x 23.6"

**SWING SYSTEM**
- Swing gear: 2 x Planetary gear
- Swing circle lubrication: Grease
- Swing holding brakes: Mechanical disc brakes
- Swing speed: 4.8 rpm

**DRIVE SYSTEM**
- Travel gear: Planetary gear
- Gradeability: 65%
- Maximum travel speed: 2.7 km/h 1.7 mph
- Parking brakes: Mechanical disc brakes
- Track adjuster: Grease
- No. of shoes: 49 each side
- No. of carrier rollers: 8 each side
- No. of track rollers: 3 each side

**UNDERCARRIAGE**
- Fuel tank: 3400 ltr 898.3 U.S. gal
- Radiator: 180 ltr 47.6 U.S. gal
- Engine: 120 ltr 31.7 U.S. gal
- Travel gear, each side: 85 ltr 22.5 U.S. gal
- Swing drives: 30 x 2 ltr 7.9 x 2 U.S. gal
- Hydraulic tank: 1300 ltr 343.5 U.S. gal
- PTO: 30 ltr 7.9 U.S. gal

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**
- PC2000-8
- OPERATING WEIGHT (APPROXIMATE)
- BACKHOE
  - Operating weight, including 8700 mm 28’7” boom, 3900 mm 12’10” arm, SAE heaped 12.0 m³ 15.7 yd³ general purpose backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

<table>
<thead>
<tr>
<th>Shoes</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>200000 kg</td>
<td>190 kPa</td>
</tr>
<tr>
<td>810 mm 32&quot;</td>
<td>440,920 lb</td>
<td>1.94 kgf/cm²</td>
</tr>
<tr>
<td></td>
<td>27.6 psi</td>
<td></td>
</tr>
<tr>
<td>Triple grouser</td>
<td>204120 kg</td>
<td>156 kPa</td>
</tr>
<tr>
<td>1010 mm 40&quot;</td>
<td>450,000 lb</td>
<td>1.59 kgf/cm²</td>
</tr>
<tr>
<td></td>
<td>22.6 psi</td>
<td></td>
</tr>
</tbody>
</table>

**LOADING SHOVEL**
- Operating weight, including 5950 mm 19’6” boom, 4450 mm 14’7” arm, 11.0 m³ 14.4 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.

<table>
<thead>
<tr>
<th>Shoes</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser</td>
<td>195000 kg</td>
<td>186 kPa</td>
</tr>
<tr>
<td>810 mm 32&quot;</td>
<td>429,900 lb</td>
<td>1.96 kgf/cm²</td>
</tr>
<tr>
<td></td>
<td>27.0 psi</td>
<td></td>
</tr>
</tbody>
</table>
HYDRAULIC EXCAVATOR

PC2000-8

BACKHOE DIMENSIONS

Unit: mm \( \times \) ft \( \times \) in

BACKHOE WORKING RANGE

<table>
<thead>
<tr>
<th>Backhoe Working Range</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Max. digging height</td>
<td>13410 mm / 44'0&quot;</td>
</tr>
<tr>
<td><strong>B</strong> Max. dumping height</td>
<td>8650 mm / 28'5&quot;</td>
</tr>
<tr>
<td><strong>C</strong> Max. digging depth</td>
<td>9235 mm / 30'4&quot;</td>
</tr>
<tr>
<td><strong>D</strong> Max. vertical wall digging depth</td>
<td>2710 mm / 8'11&quot;</td>
</tr>
<tr>
<td><strong>E</strong> Max. digging depth of cut for 8' level</td>
<td>9115 mm / 29'11&quot;</td>
</tr>
<tr>
<td><strong>F</strong> Max. digging reach</td>
<td>15780 mm / 51'9&quot;</td>
</tr>
<tr>
<td><strong>G</strong> Max. digging reach at ground level</td>
<td>15305 mm / 50'3&quot;</td>
</tr>
<tr>
<td><strong>H</strong> Min. swing radius</td>
<td>7500 mm / 24'7&quot;</td>
</tr>
</tbody>
</table>

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

*Wear-resistant bucket

BACKHOE BUCKET

<table>
<thead>
<tr>
<th>Bucket Capacity (Heaped)</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SAE, PCSA</strong></td>
<td><strong>CECE</strong></td>
</tr>
<tr>
<td>m³</td>
<td>m³</td>
</tr>
<tr>
<td><strong>Without Side Shrouds</strong></td>
<td><strong>With Side Shrouds</strong></td>
</tr>
<tr>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td><strong>SWEET CAPACITY</strong></td>
<td><strong>Loose</strong></td>
</tr>
<tr>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td><strong>RECOMMENDED TOOTH SYSTEM</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

*Wear-resistant bucket
LOADING SHOVEL DIMENSIONS

Unit: mm ft in

LOADING SHOVEL WORKING RANGE

Type of bucket

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity–heaped</td>
<td>11.0 m³ 14.4 yd³</td>
</tr>
<tr>
<td>Width (with side shrouds)</td>
<td>3220 mm 127&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>14400 kg 31,750 lb</td>
</tr>
<tr>
<td>Tooth system</td>
<td>XS145</td>
</tr>
<tr>
<td>No. of bucket teeth</td>
<td>6</td>
</tr>
<tr>
<td>Max. material density</td>
<td>1.8 t / m³ 3000 lb / yd³</td>
</tr>
</tbody>
</table>

Working Range

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. cutting height</td>
<td>14450 mm 47'5&quot;</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>9665 mm 31'9&quot;</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>3190 mm 10'6&quot;</td>
</tr>
<tr>
<td>D Max. digging reach</td>
<td>13170 mm 43'3&quot;</td>
</tr>
<tr>
<td>E Max. digging reach at ground level</td>
<td>11940 mm 39'2&quot;</td>
</tr>
<tr>
<td>F Level crowding distance</td>
<td>4850 mm 15'11&quot;</td>
</tr>
<tr>
<td>G Min. crowd distance</td>
<td>7090 mm 23'3&quot;</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>721 kN 73.5 ton / 81.0 U.S. ton</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>755 kN 77.0 ton / 84.9 U.S. ton</td>
</tr>
</tbody>
</table>
# Lifting Capacities

**PC2000-8**

**Equipment:**
- Boom: 8.7 m 287°
- Arm: 3.9 m 1210°
- Bucket: 12.0 m³ 15.7 yd³
- Bucket weight: 9700 kg 21,380 lb
- Track shoe width: 810 mm 32"

<table>
<thead>
<tr>
<th>A</th>
<th>Maximum</th>
<th>10.7 m 35°</th>
<th>9.1 m 30°</th>
<th>7.6 m 25°</th>
<th>6.1 m 20°</th>
<th>4.6 m 15°</th>
<th>3.0 m 10°</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Cl</td>
<td>Cs</td>
<td>Cl</td>
<td>Cs</td>
<td>Cl</td>
<td>Cs</td>
<td>Cl</td>
</tr>
<tr>
<td>7.6 m 20°</td>
<td>21050</td>
<td>21050</td>
<td>31450</td>
<td>31450</td>
<td>38650</td>
<td>38650</td>
<td>46700</td>
</tr>
<tr>
<td>6.1 m 20°</td>
<td>21950</td>
<td>21950</td>
<td>33350</td>
<td>33350</td>
<td>38650</td>
<td>38650</td>
<td>46700</td>
</tr>
<tr>
<td>4.6 m 15°</td>
<td>23400</td>
<td>23400</td>
<td>35400</td>
<td>35400</td>
<td>42000</td>
<td>42000</td>
<td>52200</td>
</tr>
<tr>
<td>3.0 m 10°</td>
<td>25500</td>
<td>24100</td>
<td>37150</td>
<td>36050</td>
<td>44650</td>
<td>44850</td>
<td>56550</td>
</tr>
<tr>
<td>1.5 m 9°</td>
<td>28450</td>
<td>24150</td>
<td>38300</td>
<td>34650</td>
<td>46650</td>
<td>49000</td>
<td>59050</td>
</tr>
<tr>
<td>0 m 0°</td>
<td>28900</td>
<td>25050</td>
<td>38600</td>
<td>33600</td>
<td>47150</td>
<td>43450</td>
<td>59400</td>
</tr>
<tr>
<td>-1.5 m -5°</td>
<td>30250</td>
<td>27000</td>
<td>39200</td>
<td>32200</td>
<td>50300</td>
<td>47100</td>
<td>68650</td>
</tr>
<tr>
<td>-3.0 m -10°</td>
<td>30350</td>
<td>28000</td>
<td>39700</td>
<td>32200</td>
<td>53300</td>
<td>50300</td>
<td>74200</td>
</tr>
<tr>
<td>-4.6 m -15°</td>
<td>29750</td>
<td>29750</td>
<td>39700</td>
<td>32200</td>
<td>53500</td>
<td>50300</td>
<td>74200</td>
</tr>
<tr>
<td>-6.1 m -20°</td>
<td>27000</td>
<td>27000</td>
<td>39700</td>
<td>32200</td>
<td>53500</td>
<td>50300</td>
<td>74200</td>
</tr>
</tbody>
</table>

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J/ISO10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
**PC2000-8 HYDRAULIC EXCAVATOR**

### Equipment:
- **Boom:** 8.7 m \(28'7''\)
- **Arm:** 3.9 m \(12'10''\)
- **Bucket:** 12.0 m\(^3\) \(15.7 \text{ yd}^3\)
- **Bucket weight:** 9700 kg \(21,380 \text{ lb}\)
- **Track shoe width:** 810 mm \(32''\)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J/ISO10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

### LIFTING CAPACITY

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Cf Maximum</th>
<th>7.6 m 25'</th>
<th>9.1 m 30'</th>
<th>7.6 m 25'</th>
<th>6.1 m 20'</th>
<th>4.6 m 15'</th>
<th>3.0 m 10'</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cl</td>
<td>Cs</td>
<td>Cl</td>
<td>Cs</td>
<td>Cl</td>
<td>Cs</td>
</tr>
<tr>
<td>7.6 m</td>
<td>25'</td>
<td>*23900</td>
<td>*52,700</td>
<td>*36150</td>
<td>*79,600</td>
<td>*36150</td>
<td>*52,700</td>
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<tr>
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<td>*38350</td>
<td>*84,500</td>
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<td>*26450</td>
<td>*58,300</td>
<td>*40700</td>
<td>*89,700</td>
<td>*105,800</td>
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<td>3.0 m</td>
<td>10'</td>
<td>*28700</td>
<td>*63,200</td>
<td>*42800</td>
<td>*94,300</td>
<td>*113,100</td>
<td>*94,300</td>
<td>*140,000</td>
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<tr>
<td>1.5 m</td>
<td>5'</td>
<td>*31950</td>
<td>*70,400</td>
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<td>*43100</td>
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<tr>
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<td>*39250</td>
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<tr>
<td>-4.6 m</td>
<td>-15'</td>
<td>*34950</td>
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<tr>
<td>-6.1 m</td>
<td>-20'</td>
<td>*32150</td>
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<td>*62950</td>
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</tr>
</tbody>
</table>

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

### Heavy Lift On

<table>
<thead>
<tr>
<th>B</th>
<th>A</th>
<th>Cl</th>
<th>Cs</th>
<th>Cl</th>
<th>Cs</th>
<th>Cl</th>
<th>Cs</th>
<th>Cl</th>
<th>Cs</th>
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<td>*82600</td>
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<tr>
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<td>20'</td>
<td>*89,600</td>
<td>*19,800</td>
<td>*19,800</td>
<td>*19,800</td>
<td>*19,800</td>
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<tr>
<td>4.6 m</td>
<td>15'</td>
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<tr>
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<tr>
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<td>*22,800</td>
<td>*22,800</td>
</tr>
<tr>
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<td>*22,800</td>
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<td>*22,800</td>
<td>*22,800</td>
<td>*22,800</td>
<td>*22,800</td>
</tr>
</tbody>
</table>
Specifications shown include the following equipment:

**Backhoe:** boom 8700 mm 28'7", arm 3900 mm 12'10", bucket 12.0 m³ 15.7 yd³, shoes 810 mm 32" double grouser

**Loading Shovel:** boom 5950 mm 19'6", arm 4450 mm 14'7", bucket 11.0 m³ 14.4 yd³, shoes 810 mm 32" double grouser

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### Work equipment assembly - Backhoe

<table>
<thead>
<tr>
<th></th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (U.S. ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boom</strong></td>
<td>9170</td>
<td>30'1&quot;</td>
<td>3195</td>
<td>20.9 23.0</td>
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<tr>
<td><strong>Arm</strong></td>
<td>5495</td>
<td>18'0&quot;</td>
<td>2055</td>
<td>12.9 14.2</td>
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<tr>
<td><strong>Bucket</strong></td>
<td>3540</td>
<td>11'7&quot;</td>
<td>2320</td>
<td>9.7 10.7</td>
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</tbody>
</table>

### Work equipment assembly - Loading Shovel

<table>
<thead>
<tr>
<th></th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (U.S. ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boom</strong></td>
<td>6400</td>
<td>21'0&quot;</td>
<td>1740</td>
<td>11.8 13.0</td>
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<tr>
<td><strong>Arm</strong></td>
<td>4900</td>
<td>16'1&quot;</td>
<td>1450</td>
<td>9.5 10.5</td>
</tr>
<tr>
<td><strong>Bucket</strong></td>
<td>3500</td>
<td>11'6&quot;</td>
<td>2920</td>
<td>14.4 15.9</td>
</tr>
</tbody>
</table>

### Cab

<table>
<thead>
<tr>
<th></th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (U.S. ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boom cylinder</strong></td>
<td>4265</td>
<td>14'0&quot;</td>
<td>1.90</td>
<td>2.09</td>
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<tr>
<td><strong>Arm cylinder</strong></td>
<td>3370</td>
<td>11'1&quot;</td>
<td>1.05</td>
<td>1.16</td>
</tr>
<tr>
<td><strong>Bucket cylinder</strong></td>
<td>3350</td>
<td>11'0&quot;</td>
<td>1.10</td>
<td>1.21</td>
</tr>
</tbody>
</table>

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### Transportation Guide

**Others**
Catwalk, step, handrail, small removed parts, etc.
STANDARD EQUIPMENT

ENGINE AND RELATED ITEMS:
- Air cleaner, double element dry (Inside mounted)
- Two cooling fans with fan guard (Hydraulic drive, for radiator and oil cooler)
- Engine, Komatsu SAA12V140E-3
- Fuel pre-filters with water separators
- Corrosion resistors

ELECTRICAL SYSTEM:
- Alternators, 2 x 90 amp, 24V
- Batteries, 140 Ah, 4 x 12V
- Starting motors, 2 x 11 kW
- Working lights, 4 boom, 4 cab base, 3 fuel tank top front, 1 left front and 1 left under cab side catwalk
- Auto decelerator and auto idling system
- AM/FM radio
- Lighted switches on instrument panel

UNDERCARRIAGE:
- 810 mm 32" double grouser shoes
- 8 track rollers / 3 carrier rollers (each side)
- Hydraulic idler cushion (HiC) with shock absorbing accumulator
- Track guiding guard (Separate type)

GUARDS AND COVERS:
- Dustproof net for radiator and oil cooler
- Pump/engine room partition cover
- Power module under cover
- Travel motor guard

OPERATOR'S CAB:
- Large damper mounted and pressurized mining shovel cab with large tinted windshield, lockable door, large twin wipers and washers, floor mats, cigarette lighter, ashtray and cup holders
- Instrument panel with electronic display/monitor system (7"-TFT-LCD), electrically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic oil temp., fuel level, PTO oil temp., engine oil temp.), truck counters, eco-gauge
- Built-in top guard conforming to OPG level 2 (ISO)
- Automatic air conditioners (twin)
- Seat, fully adjustable air suspension with retractable seat belt
- Trainer’s seat
- Sun shield
- Fire extinguisher

HYDRAULIC SYSTEM:
- EOLSS (Electric Open Center Load Sensing System)
- 4 variable displacement piston pumps (2 tandem pumps) for work equipment, travel and swing, 2 variable displacement piston pumps (1 tandem pump) for fan drive
- Two axial piston motors for swing with single stage relief valve
- One axial piston motor per track for travel with counterbalance valve
- Four control valves (two integrated valves) for work equipment, swing and travel
- Control levers for work equipment and swing with PPC system
- Control levers and pedals for travel with PPC system
- Oil cooler
- High-pressure in-line oil filters
- Drain-filters for pumps & motors
- Shockless boom control
- Two-mode pressure setting for boom

DRIVE SYSTEM:
- Planetary travel gear with axial piston motor
- Travel parking brake

OTHER STANDARD EQUIPMENT:
- Fully-automatic greasing system with 200 liter 52.8 U.S. gal.
- Manual grease gun for track adjuster
- Fixed emergency escape ladder
- Fully hydraulic ladder
- Fuel tank, 3400 liter 898 U.S. gal.
- Automatic swing holding brake
- Emergency engine stop switch and fuel shut-off lever
- Maintenance light for night
- Step light with timer
- Light in machine cab
- Travel alarm
- Wide catwalk and large handrail
- Interconnected horn and flashing light
- Dual rearview mirrors
- VHMS (with Orbcomm)

OPTIONAL EQUIPMENT

- Additional 6 fuses and terminals
- Arms (Backhoe):
  - 3900 mm 12'10" arm assembly
- Arms (Loading shovel):
  - 4450 mm 14'7" arm assembly
- Booms (Backhoe):
  - 8700 mm 28'7" boom assembly
- Booms (Loading shovel):
  - 5950 mm 19'6" boom assembly
- HID lamp system
- Rearview monitoring system
- Cab front guard
- Steel (Backhoe):
  - 3900 mm 12'10" arm assembly
- Steel (Loading shovel):
  - 4450 mm 14'7" arm assembly
- Booms (Backhoe):
  - 8700 mm 28'7" boom assembly
- Booms (Loading shovel):
  - 5950 mm 19'6" boom assembly
- HID lamp system
- Rearview monitoring system
- Cab front guard
- PM tune-up service connection
- Track shoe, 1010 mm 40" triple grouser
- Center frame under cover
- Grease refill system (Wiggins)
- Fuel quick charge system (Wiggins)
- Heavy-duty rock bucket
- 55˚C 131˚F spec.
- Additional filter system for poor-quality fuel
- Additional pre-cleaner for engine air filter (Enginaire)
- Full length track guiding guards