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.
WALK-AROUND

Productivity and Economy

Fuel Efficient Machine Achieved by Total Power Management and Advanced Hydraulic System
Fuel Consumption at Economy Mode 10% Reduced (compared with PC1800-6)
• 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

EPA Tier 2 Emission Certified Komatsu Engine

New Technology Produces Remarkably Low Environmental Noise
Dynamic Noise 8 dB lower than PC1800-6
• Power module packaging and noise absorbing blades trap noise inside
• 3-D hybrid fan minimizes air turbulence noise

Ecology

Operator Comfort

Newly Designed Mining Shovel Cab Provides Comfortable Operation
• Excellent operational visibility with extended front windshield and large twin wiper
• Extremely low noise and vibration
• Dynamic in-cab noise reduced to the same level as passenger cars
• 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

Emergency Stop Devices

Interconnected Horn and Flashing Light
See pages 10, 11, 12 and 13.

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 the 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
See pages 6, 7, 8 and 9.

See pages 4, 5.

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

Operating Weight
Backhoe
200,000 – 204,120 kg
440,920 – 450,000 lb
Loading shovel
195,000 kg
429,900 lb

Photo may include optional equipment.
PRODUCTIVITY, ECONOMY & ECOLOGY

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 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 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’. PC2000-8 is a new generation clean and economical machine.

Fuel consumption at E mode 10% reduced
Compared with the PC1800-6 at DH mode and 100% working efficiency.

High Power Komatsu Engine
713 kW (956 HP)
Equipped with the high efficiency turbocharger with large air-to-air aftercooler, the engine delivers high output of 713 kW (956 HP). The ample engine power enables an increase in work efficiency. The clean engine is Tier 2 emission certified in USA (EPA).

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.

Selective 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 depending on workloads. Two E mode settings available, enabling the operator to select optimum mode that delivers the best combination of production and fuel efficiency considering working conditions.

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 three dimensions hybrid cooling fan, the machine realizes environmentally-friendly operation with amazingly low-noise.
EASY REPAIR & MAINTENANCE

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.

High cooling efficiency machine design
Increased oil cooler capacity lowers the heat balance temperature of 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 and 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 size track links, provide excellent durability.

Repair & maintenance cost
Drastically reduced
Compared with current model

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.

Power module packaging for easy installation and removal of components

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.)

Wear-resistant Float Pin
Boom top pin and arm top pin are floating type. Since the pin can freely rotate, it receives less friction load and exhibits excellent reliability and durability.

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

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 class). Features high wear-resistance and less heat-induced alteration during rock digging, maintaining long term hardness.

Heavy-duty Rock Bucket with XS Tooth
Sustained high level performance
An achievement in the evolution of maintenance

**Caterpillar Engine**

High performance for more efficient, longer-lasting operation.

**Eaton Final Drive**

Rugged, reliable performance for extended service life.

**Auto Shift Transmission**

Effortless operation from start to finish.

**789C Off-road Tires**

Maximized traction and durability for smooth, efficient performance.

**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.

**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.

**Remote Drain Piping Enables Drainage from the Ground**

Remote drain piping provided to drain hydraulic oil, PTO oil, engine oil and coolant enable performing drainage work from the ground.

**Ground Refueling System**

Remote refueling port enables ground level refueling.

**Large Fuel Tank**

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

**Service Center (optional)**

Collective arrangement of drain and filter ports for fuel, oil, grease and coolant on the service center, which is hydraulically moved up and down, makes possible quick servicing from the ground.

**Automatic Greasing System**

Greasing work equipment and bucket is fully automated. Since the system carries out automatic greasing at regular time intervals, greasing is hassle-free.

**Dust Indicator with Five-step Indication**

Informs of air cleaner clogging in five steps to warn of filter condition.

**Remote Drain Piping (optional)**

An optional remote drain piping provides for drainage work from the ground.

**Monitor function**

Controller monitors engine oil level, coolant temperature, battery charge and 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 when the replacement interval is reached.

**Trouble data memory function**

Monitor stores abnormalities for effective troubleshooting.

**Battery Isolator and Starting Motor Isolator (optional)**

When inspection and maintenance or storing the machine long term, the isolators serve to isolate both positive and negative terminals of the battery and starting motor.

**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.


**COMFORT / WORKING ENVIRONMENT**

Operator first concept in every corner of the machine 
An achievement in the evolution of operator performance

---

**New Operator Cab Specially Designed for Mining**

New operator cab provides a comfortable working environment. Sturdy cab of solid construction, with top guard conforms to OPG level 2.

---

**Step Light with Timer and Maintenance Light**

Step light with timer provides light for 90 seconds to allow the operator to get off the machine.

---

**Hammer for Emergency Escape and Fire Extinguisher**

To prepare for emergencies, a hammer for emergency escape is provided at the front of the cab and a fire extinguisher at the rear.

---

**Hydraulic-actuated Ladder**

The machine is equipped with a hydraulic-actuated ladder that can be set up and folded easily for safe getting on and off.

---

**Emergency Stop Device & Fuel Cut-off Lever**

Engine emergency stop switch is additionally installed to the console in the cab as standard. The remote emergency stop switch operated from the ground is available as an option.

---

**Interconnected Horn and Flashing Light**

Interconnected horn and flashing light allows the operator to give visual and audible notice to the dump truck operator.

---

**Bulkhead Wall (Fire Wall)**

Prevents oil from splashing into the engine room even if hydraulic hoses are broken.

---

**High Intensity Discharge (HID) Working Light (optional)**

HID working light with double the luminance of conventional halogen lamp is available for night work.

---

**Emergency Stop Switch (with engine start lock function)**

Fuel cut-off lever

---

**Dual Rearview Mirror**

Mirrors offer high visibility with fewer blind spots in left rear field of vision.

---

**Large Twin Wiper**

Large twin wiper covers windshield area and provides excellent front visibility even in the rain.

---

**Wide Catwalk with Handrail**

The machine is equipped with kickboard (100 mm 3.9” height) and large handrail all around.
**COMFORT / WORKING ENVIRONMENT**

**Equipment designed to minimize operator fatigue**
An achievement in the evolution of comfort performance

**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 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.

Cab volume 30% increased
Compared with PC1800-8

**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.

Noise level 64.5 dB(A)
In the cab on max. engine speed under no-load condition

**Easy-to-see and Easy-to-use 7-inch TFT-LCD Large Monitor**
The machine is equipped with 7-inch TFT-LCD large monitor for secure, and smooth operation. 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.
**ENGINE**

- **Model**: Komatsu SAA12V140E-3
- **Type**: 4-cylinder, water-cooled, direct injection
- **Airflow**: Turbocharged, aftercooled
- **Number of cylinders**: 12
- **Bore**: 140 mm, 5.51"
- **Stroke**: 165 mm, 6.50"
- **Piston displacement**: 30.48 x 1860 mm³
- **Governor**: High-speed, electronic
- **Horsepower**: SAE J1995
  - Gross: 728 kW, 976 HP
  - BHP: 595 kW, 796 HP
- **Rated rpm**: 1800 rpm
- **Travel drive type**: Hydraulic

*Net horsepower at the maximum speed of radiator cooling fan is 679 kW (910 HP)*

**HYDRAULIC SYSTEM**

- **Type**: Open-center load sensing system
- **Number of selectable working modes**: 2
- **Main Pump**: Variable displacement piston pumps
  - Pumps for: Boom, arm, bucket, swing, and travel circuits
- **Maximum Flow**:
  - For attachment, swing and travel: 2371 l/min 612.2 US gpm
  - For fan drive: 324 l/min 85.6 US gpm

**HYDRAULIC EXCAVATOR**

**SWING SYSTEM**

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

**COOLANT AND LUBRICANT CAPACITY**

- **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
- **Swing gear**: 225 ltr, 59.5 U.S. gal
- **Swing drives**: 30 x 2 ltr, 7.9 x 2 U.S. gal
- **Hydraulic tank**: 1600 ltr, 420.8 U.S. gal
- **PTO**: 36 ltr, 9.5 U.S. gal

**DRIVE SYSTEM**

- **Travel gear**: Planetary gear
- **Gradientability**: 65%
- **Maximum travel speed**: 2.7 km/h, 1.7 mph
- **Parking brakes**: Mechanical disk brakes

**UNDERCARRIAGE**

- **Track adjuster**: Grease
  - No. of shoes: 49 each side
  - No. of carrier rollers: 3 each side
  - No. of track rollers: 8 each side

**OPERATING WEIGHT**

**OPERATING WEIGHT (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Shores</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grooved 810 mm 32°</td>
<td>200000 kg</td>
<td>190 kPa</td>
</tr>
<tr>
<td>810 mm 32°</td>
<td>440,000 lb</td>
<td>1.34 kglm²</td>
</tr>
<tr>
<td>810 mm 32°</td>
<td>278 psi</td>
<td></td>
</tr>
<tr>
<td>Triple grooved 1010 mm 40°</td>
<td>204120 kg</td>
<td>150 kPa</td>
</tr>
<tr>
<td>810 mm 32°</td>
<td>400,000 lb</td>
<td>1.09 kglm²</td>
</tr>
<tr>
<td>810 mm 32°</td>
<td>22.6 psi</td>
<td></td>
</tr>
</tbody>
</table>

**LOADING SHOVEL**

Operating weight, including 5950 mm 19.6" boom, 4450 mm 147" arm, 11.0 m³ 14.4 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and the standard equipment.

**PC2000-8**

<table>
<thead>
<tr>
<th>Shores</th>
<th>Operating Weight</th>
<th>Ground Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grooved 810 mm 32°</td>
<td>195060 kg</td>
<td>150 kPa</td>
</tr>
<tr>
<td>810 mm 32°</td>
<td>423,900 lb</td>
<td>1.30 kglm²</td>
</tr>
<tr>
<td>810 mm 32°</td>
<td>27.0 psi</td>
<td></td>
</tr>
</tbody>
</table>

**BACKHOE DIMENSIONS**

<table>
<thead>
<tr>
<th>PC2000-8</th>
<th>17530 50.1&quot;</th>
<th>7490 24.7&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 2330 76.4&quot;</td>
<td>24400 80.5&quot;</td>
<td></td>
</tr>
<tr>
<td>3100 12.2&quot;</td>
<td>6530 25.6&quot;</td>
<td></td>
</tr>
<tr>
<td>810 34.1&quot;</td>
<td>5410 21.2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**BACKHOE WORKING RANGE**

- **Boom length**: 6.7 m, 22.6 ft
- **Arm length**: 5.86 m, 19.2 ft
- **Max. digging height**: 8546 mm, 27.9 ft
- **Max. digging reach**: 10930 mm, 35.7 ft
- **Max. dumping height**: 5950 mm, 19.5 ft
- **Max. digging reach at grade level**: 5950 mm, 19.5 ft
- **Max. digging depth**: 1650 mm, 5.4 ft
- **Max. digging ream at ground level**: 1650 mm, 5.4 ft
- **Min. swing radius**: 7680 mm, 25.5 ft
- **Bucket digging force (SAE)**: 6200 kg, 13700 lb
- **Arm crown force (S4A)**: 5680 kg, 12500 lb
- **Bucket digging force (ISO)**: 7035 kg, 15500 lb
- **Arm crown force (ISO)**: 5895 kg, 13500 lb

**BUCKET CAPACITY**

**MAX MATERIAL DENSITY**

- **517 KG/M³**: 23.50 U.S. gpm
- **1.5 TONNE**: 2600 kg, 5726 lb

**RECOMMENDED USES**

- **Rock**: XS14S
- **General purpose**: XS14S

**TOUGH SYSTEM**

- **Rock**: XS14S
- **General purpose**: XS14S

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

*Wear-resistant bucket*
### Loading Shovel Dimensions

#### Working Range

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity–heaped</td>
<td>11.0 m³</td>
</tr>
<tr>
<td>Max. digging height</td>
<td>14400 mm</td>
</tr>
<tr>
<td>Max. digging depth</td>
<td>3860 mm</td>
</tr>
<tr>
<td>Max. digging reach at ground level</td>
<td>11940 mm</td>
</tr>
<tr>
<td>Level crowding distance</td>
<td>4895 mm</td>
</tr>
<tr>
<td>Max. crowd distance</td>
<td>7060 mm</td>
</tr>
</tbody>
</table>

#### Bucket weight:
- 7300 kg / 16,600 lb

#### Arm crowd force:
- 7060 mm / 23.1 ft

#### Loading Shovel Dimensions

#### Lifting Capacity

#### PC2000-8

<table>
<thead>
<tr>
<th>Equipment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom: 8.7 m / 28'7&quot;</td>
</tr>
<tr>
<td>Arm: 3.9 m / 12'10&quot;</td>
</tr>
<tr>
<td>Bucket: 12.0 m³ / 15.7 yd³</td>
</tr>
<tr>
<td>Bucket weight: 9700 kg / 21,380 lb</td>
</tr>
<tr>
<td>Track shoe width: 810 mm / 32&quot;</td>
</tr>
</tbody>
</table>

#### Heavy Lift Off

<table>
<thead>
<tr>
<th>A</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.7 m</td>
<td>51,500 kgf / 113,900 lb</td>
</tr>
<tr>
<td>20'</td>
<td>48,400 kgf / 106,100 lb</td>
</tr>
<tr>
<td>5'</td>
<td>23,400 kgf / 51,700 lb</td>
</tr>
<tr>
<td>6.1 m</td>
<td>21,950 kgf / 48,300 lb</td>
</tr>
<tr>
<td>3.0 m</td>
<td>20,500 kgf / 45,280 lb</td>
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<th>B</th>
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<th>Cc</th>
<th>Cl</th>
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<tbody>
<tr>
<td>6.1 m</td>
<td>21,950</td>
<td>21,950</td>
<td>33,350</td>
<td>33,350</td>
<td>49,500</td>
<td>49,500</td>
<td>73,000</td>
<td>73,000</td>
<td>97,000</td>
<td>97,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.6 m</td>
<td>24,950</td>
<td>24,950</td>
<td>36,600</td>
<td>36,600</td>
<td>52,000</td>
<td>52,000</td>
<td>77,500</td>
<td>77,500</td>
<td>102,000</td>
<td>102,000</td>
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<tr>
<td>3.0 m</td>
<td>25,200</td>
<td>25,200</td>
<td>37,150</td>
<td>37,150</td>
<td>49,000</td>
<td>49,000</td>
<td>76,000</td>
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<td>101,000</td>
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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.

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<td>97,000</td>
<td></td>
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</tr>
<tr>
<td>4.6 m</td>
<td>24,950</td>
<td>24,950</td>
<td>36,600</td>
<td>36,600</td>
<td>52,000</td>
<td>52,000</td>
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<td>77,500</td>
<td>102,000</td>
<td>102,000</td>
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</tr>
<tr>
<td>3.0 m</td>
<td>25,200</td>
<td>25,200</td>
<td>37,150</td>
<td>37,150</td>
<td>49,000</td>
<td>49,000</td>
<td>76,000</td>
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<td>101,000</td>
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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.
Specifications shown include the following equipment:

**Backhoe:** boom 8700 mm 28", arm 3900 mm 12", bucket 12.0 m^3 15.7 yd^3, show 810 mm 32" double grouser

**Loading Shovel:** boom 5950 mm 19", arm 4450 mm 14", bucket 11.0 m^3 14.4 yd^3, show 810 mm 32" double grouser

**Work equipment assembly-Backhoe**

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Weight t U.S. ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>5495</td>
<td>1890</td>
<td>3990 12'0&quot;</td>
</tr>
<tr>
<td>Arm</td>
<td>4990</td>
<td>1160</td>
<td>1450 4'9&quot;</td>
</tr>
<tr>
<td>Bucket</td>
<td>3590</td>
<td>1160</td>
<td>3190 10'6&quot;</td>
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**Work equipment assembly-Loading Shovel**

<table>
<thead>
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<td>Boom</td>
<td>6893</td>
<td>2125</td>
<td>6420 22'1&quot;</td>
</tr>
<tr>
<td>Arm</td>
<td>4990</td>
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**Undercarriage:**

- **32" double grouser**
- **8 track rollers / 3 carrier rollers (each side)**
- **810 mm 32" double grouser show**
- **8 track rollers / 3 carrier rollers (each side)**
- **Hydraulic idler cylinder (HIC) with shock absorbing accumulator**

**Guard and covers:**

- **Dustproof net for radiator and oil cooler**
- **Pump/engine room partition cover**
- **Power module under cover**
- **Travel motor guard**
- **Large damper mounted and pressurized mining shovel cab with large tinted windshield, lockable door, large twin wipers and washers, floor mats, cigarette lighter, ash tray and cup holders**
- **Instrument panel with electronic display/monitor system (7"-TFT-LCD), electronically-controlled throttle, electric service meter, gauges (coolant temperature, hydraulic oil temp., fuel level, PTO oil temp., engine oil temp.), thck counters, eco-gauge**
- **Built in top guard conforming to CPG level 2 (ISO)**
- **Automatic air conditioners (twin)**
- **Seat, fully adjustable air suspension with retractable seat belt**
- **Trainer's seat**
- **Sun shield**
- **Fire extinguisher**
- **Emergency engine stop switch**
- **Lock lever**

**Standard equipment:**

- **Engine and related items:**
  - Air cleaner, double element dry (inside mounted)
  - Two cooling fans with fan guard (hydraulic driven, for radiator and oil cooler)
  - Engine, Komatsu SAA12V140E-3
  - Fuel pre-filters with water separators

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

- **Hydraulic system:**
  - E-OLSS (Electronic 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
  - 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
- Hydraulic-actuated ladder
- Step ladder for emergency escape
- Fuel tank, 3400 liter 998 U.S. gal.
- Refueling port
- Automatic swing holding brake
- Emergency engine stop switch and fuel cut-off lever
- Maintenance light
- Step light with timer
- Light in machine cab
- Travel alarm
- Wide catwalk with kickboard (100 mm 3.9" height) and large handrail
- Interconnected horn and flashing light
- Dual rearview mirrors
- VHMS

**Option equipment:**

- Additional 6 fuses and terminals
- Arms (Backhoe): 8700 mm 28", arm 3900 mm 12" arm assembly
- Arm (Loading Shovel): 4450 mm 14" arm assembly
- Booms (Backhoe): 8700 mm 28" boom assembly
- Booms (Loading Shovel): 5950 mm 19" boom assembly
- HID lamp system
- On-site monitoring system
- Cab front guard
- FM tune-up service connection
- Track shoe, 1010 mm 43" triple grouser
- Center frame under cover
- Grease refill system
- Service center (Grease shut-off valve available to order)
- Isolators, battery and starter
- Jump start receptacle
- Satellite communication system for VHMS (Orbcomm)
- Heavy-duty rock bucket
- 52°C spec.
- Additional filter system for poor-quality fuel
- Additional pre-cleaner for engine air filter (Engineaire)
- Full length track guiding guard

**Transportation guide:**

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**Others**

- Catwalk, step, handrail, small removed parts, etc.