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
  - 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

**Ecology**

- 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

**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 4, 5.

**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.
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.

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 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.

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 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.
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.

Power module

* Automatic variable speed fan (for radiator)
* Automatic variable speed fan (for oil cooler)
* Enlarged main pump
* Fan pump

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.

Heavy-duty Rock Bucket with XS Tooth

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.

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.
EASY REPAIR & MAINTENANCE

Sustained high level performance
An achievement in the evolution of maintenance

VMHS (Vehicle Health Monitoring System)
VMHS 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.

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.

Service Center (optional)
Collective arrangement of drain and filler 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.

Jump Start Receptacle (optional)
Jump start receptacle allows starting engine from external power source.

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. An optional remote refill part enables grease supply to the tank from the ground.

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

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.

Photo may include optional equipment.
COMFORT / WORKING ENVIRONMENT

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

**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.

**Optimal Operational Visibility**
Downward visibility is drastically improved by extending the front windshield. This facilitates the operator view of machine footing. New interior arrangement eliminates blind spots in work equipment side and provides clear and wide range surrounding visibility in combination with wide glass windows.

**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.

**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)**
Emergency stop device is provided at two points on the power module as standard equipment. Engine start lock function of the device for use during maintenance work. In addition, fuel cut-off lever provided on the revolving frame allows stopping the engine from the ground.

**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.

**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.

**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.

---

**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.

**OPG top guard level 2 integrated into the cab**

---

**Stepladder for Emergency Escape**
In case of an emergency, the stepladder allows you to get out of the machine.
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.

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 PC1800-6

Comfortable Air Suspension Seat
The seat with air suspension minimizes and softens vibrations transmitted to the operator. Depending on the operator’s weight and physique, the cushion can be adjusted and the seat can slide fore/aft and vertically.

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.

Easy-to-see and Easy-to-use 7-inch TFT-LCD Large Monitor

Indicators
- Engine oil pressure
- Coolant temperature
- Tachometer
- Working mode
- Travel speed
- Hour meter
- Diagnose
- Indication
- Air suspension
- Alarm
- Shift
- Warning light
- Oil pressure
- Air pressure
- Engine temperature
- Oil temperature
- Coolant temperature
- Water temperature
- Temperature display
- Pressure display
- Shift switch
- Function switch
- Function display
- Auto deceleration
- Working mode selection
- Heavy lift mode selection
- Buzzer cancel
- Wiper
- Window washer

Standard Equipment
- Air conditioner control panel
- Trainer’s seat diagonally behind the operator
- Sun ahead
- Suspension
- Windshield
- Sun light
- AM/FM radio/cassette holder/cigarette lighter
- Ashtray
- Utility space/handbox
PC2000-8 HYDRAULIC EXCAVATOR

SPECIFICATIONS

ENGINE
Model: Komatsu SAA6D14TE-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 ft³ 1860 in³
Governor: 4-speed, electronic
Horsepower:
SAE J1995 - Gross 728 kW 976 HP
Sed 926 kW 1259 HP
Rated rpm: 1800 rpm
Fan drive type: Hydraulic

*Net horsepower at the maximum speed of radiator cooling fan is 879 kW 1172 HP
EPA Tier 2 emission certified

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
- Fan

Maximum flow:
- For attachment, swing and travel: 231 l/min 162.2 U.S. gpm
- For fan drive: 324 l/min 225.8 U.S. gpm

Hydraulic motors:
- Travel: 2 x axial piston motors with parking brake
- Swing: 2 x axial piston motors with swing holding brake
- Fan: 2 x axial piston motors

Relief valve setting:
- Attachment circuits: 32.9 MPa 4,770 psi
- Loading shovels: 32.9 MPa 4,770 psi
- Travel circuits: 32.9 MPa 4,770 psi
- Swing circuit: 32.9 MPa 4,770 psi
- Pilot circuit: 2.9 MPa 415 psi

Hydraulic cylinders:
- Number of cylinders—bore x stroke
  Backhoe: 2 – 300 mm x 2647 mm
  Arm: 2 – 250 mm x 2136 mm
  Bucket: 2 – 200 mm x 2170 mm
- Loading shovel: 2 – 280 mm x 1930 mm
  Arm: 2 – 225 mm x 2060 mm
  Bucket: 2 – 225 mm x 2060 mm
  Bottom dump: 2 – 180 mm x 600 mm

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

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

COOLANT AND LUBRICANT
Fuel tank: 340 ltr 898.3 U.S. gal
Radiator: 180 ltr 47.6 U.S. gal
Engine: 120 ltr 31.7 U.S. gal
Swing gear:
- 2 x Planetary gear

OPERATING WEIGHT (APPROXIMATE)

BACKHOE WORKING RANGE

BACKHOE BUCKET

BUCKET CAPACITY (HEAPED)

WIDTH

MAX MATERIAL DENSITY (CAS): lb/ft³

RECOMMENDED USES

TOUCH SYSTEM

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

**PC2000-8**

**Equipment:**
- Boom: 8.7 m 28’7”
- Arm: 3.9 m 12’10”
- Bucket: 12.0 m³ 15.7 yd³
- Bucket weight: 9700 kg 21,380 lb
- Track shoe width: 810 mm 32”

**Heavy Lift Off**

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

**Heavy Lift On**

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

**Loading Shovel Work Range**

**Loading Shovel Dimension**

**Loading Shovel Bucket**

**Unit: mm ft in**

**Lifting Capacity**

**PC2000-8**

**Type of bucket:** Bottom dump

**Capacity-heaped:** 11.0 m³ 14.4 yd³

**Width (with side shrouds):** 3.0 m 10 ft

**Weight:** 14000 kg 31,000 lb

**Height overall:** 5645 mm 18 ft 9 in

**No. of bucket teeth:** 6

**Max. material density:** 3000 lb/yd³ 1.8 t/m³

**Max. 10.7 m**

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
### Specifications

Specifications shown include the following equipment:

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

**Loading Shovel:** boom 5950 mm 19", arm 4450 mm 14", bucket 11.0 m³ 14.4 yd³, shoes 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>4945</td>
<td>1805</td>
<td>1680</td>
</tr>
<tr>
<td>Arm</td>
<td>3549</td>
<td>1172</td>
<td>2790</td>
</tr>
<tr>
<td>Bucket</td>
<td>3590</td>
<td>1106</td>
<td>3190</td>
</tr>
</tbody>
</table>

### Work equipment assembly-Loading Shovel

<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>4930</td>
<td>1160</td>
<td>2656</td>
</tr>
<tr>
<td>Arm</td>
<td>4900</td>
<td>1160</td>
<td>1780</td>
</tr>
<tr>
<td>Bucket</td>
<td>3590</td>
<td>1106</td>
<td>2920</td>
</tr>
</tbody>
</table>

### Work equipment-Boom cylinder

<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>4299</td>
<td>1406</td>
<td>2.4</td>
</tr>
<tr>
<td>Arm</td>
<td>3710</td>
<td>1136</td>
<td>1.16</td>
</tr>
<tr>
<td>Bucket</td>
<td>3050</td>
<td>1136</td>
<td>1.16</td>
</tr>
</tbody>
</table>

### Undercarriage

- **Track guiding guard (Separate type)**
- **Travel motor guard**
- **Electro hydraulic cylinder (EHC)**
- **High-pressure in-line oil filters**
- **Dustproof net for radiator and oil cooler**
- **Air cleaner, double element dry (Inside mounted)**
- **Profiled service cover**
- **Automatic air conditioners (twin)**
- **Engine, Komatsu SAA12V140E-3**
- **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**
- **Built-in top guard conforming to OPG level 2 (ISO)**
- **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 938 U.S. gal.**
- **Refueling port**
- **Automatic swing holding brake**
- **Emergency engine stop switch and fuel cut-off lever**
- **Satin shine**
- **Emergency engine stop switch**
- **Dustproof net for radiator and oil cooler**
- **Air cleaner, double element dry (Inside mounted)**
- **Profiled service cover**
- **Automatic air conditioners (twin)**
- **Seat, fully adjustable air suspension with retractable seat belt**
- **Trainer’s seat**
- **Sun shield**
- **Fire extinguisher**
- **Emergency engine stop switch**
- **VHMS**
- **Optional equipment**
  - **Additional 6 fuses and terminals**
  - **Arms (Backhoe)**
  - **Arm (Loading shovel)**
  - **Booms (Loading shovel)**
  - **Booms (Loading shovel)**
  - **HID lamp system**
  - **Rainview 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**
- **50°C spec.**
- **Additional filter system for poor-quality fuel**
- **Additional pre-cleaner for engine air filter (Enginaire)**
- **Full length track guiding guards**

### Standard equipment

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic system</td>
<td>E-OLISS (Electronic Open Center Load Sensing System)</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>Two axial piston motors for swing with single stage relief valve</td>
</tr>
<tr>
<td></td>
<td>One axial piston motor per track for travel with counterbalance valve</td>
</tr>
<tr>
<td></td>
<td>Four control valves (two integrated valves) for work equipment, swing and travel</td>
</tr>
<tr>
<td></td>
<td>Control levers for work equipment and swing with PPC system</td>
</tr>
<tr>
<td></td>
<td>Control levers and pedals for travel with PPC system</td>
</tr>
<tr>
<td></td>
<td>Oil cooler</td>
</tr>
<tr>
<td></td>
<td>High-pressure in-line oil filters</td>
</tr>
<tr>
<td></td>
<td>Drain-filters for pumps &amp; motors</td>
</tr>
<tr>
<td></td>
<td>Shockless boom control</td>
</tr>
<tr>
<td></td>
<td>Two mode pressure setting for boom</td>
</tr>
</tbody>
</table>

### Drive system

- **Planetary travel gear with axial piston motor**
- **Travel parking brake**

### Hydraulics

- **E-OLISS (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**
- **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**

### 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 938 U.S. gal.**
- **Refueling port**
- **Automatic swing holding brake**
- **Emergency engine stop switch and fuel cut-off lever**
- **Satin shine**
- **Emergency engine stop switch**
- **Dustproof net for radiator and oil cooler**
- **Air cleaner, double element dry (Inside mounted)**
- **Profiled service cover**
- **Automatic air conditioners (twin)**
- **Seat, fully adjustable air suspension with retractable seat belt**
- **Trainer’s seat**
- **Sun shield**
- **Fire extinguisher**
- **Emergency engine stop switch**
- **VHMS**

### Optional equipment

- **Additional 6 fuses and terminals**
- **Arms (Backhoe)**
- **Arm (Loading shovel)**
- **Booms (Loading shovel)**
- **Booms (Loading shovel)**
- **HID lamp system**
- **Rainview 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**
- **50°C spec.**
- **Additional filter system for poor-quality fuel**
- **Additional pre-cleaner for engine air filter (Enginaire)**
- **Full length track guiding guards**

### Others

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