STANDARD EQUIPMENT

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

ELECTRICAL SYSTEM:
- Alternator, 66 amp, 24 V
- Auto deaccelerator and auto idling system
- Batteries, 170 Ah, 2 x 12 V
- Starting motors, 11kW
- Stop light with timer
- Working lights-2 boom, 2 cab top front, 1 right front

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

GUARDS AND COVERS:
- Dust-proof net for radiator and oil cooler
- Full length track guard
- OPG top guard (operator protective guards ISO 10262 level 2 (FOG))
- Pump/engine room partition cover
- Strengthened revolving frame underguard
- Travel motor guards

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

HYDRAULIC CONTROLS:
- Control levers and pedals for steering and travel with PPC system
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Fully hydraulic, with Electronic Open-center Load Sensing System (EOLSS) and engine speed sensing (pump and engine mutual control system)
-Heavy lift mode system
-In-line filter
-Oil cooler
-One axial piston motor per track for travel with counter balance valve
-Power max function
- Shockless boom control
- Swing priority mode system
-Two axial piston motors for swing with single-stage relief valve
-Two control valves, 5+4 spools (boom, arm, bucket, swing, and travel)
-Two-mode setting for boom
-Two variable capacity piston pumps

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

OTHER STANDARD EQUIPMENT:
- Anti-slip plates
- Automatic swing holding brake
- Catwalk
- Counterweight, 11850 kg, 26,120 lb
- Horn, electric
- Large handrails
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Rear reflector
- Travel alarm

OPTIONAL EQUIPMENT

- Air suspension seat
- Alternator, 90 amp, 24 V
- Arms (Backhoe):
  - 3600 mm 11’10” HD arm assembly
  - 2945 mm 9’8” SE arm assembly
  - 3600 mm 11’10” SE arm assembly
- Auto air conditioner
- Boom (Backhoe):
  - 3600 mm 11’10” HD arm assembly
  - 2945 mm 9’8” SE arm assembly
- Auto air conditioner
- Booms (Backhoe):
  - 3600 mm 11’10” SE arm assembly
- Auto air conditioner
- Air cleaner, double element, dry
- Engine, Komatsu SAA6D140E-5
- Variable speed cooling fan, with fan guard

- Cab front guard (ISO 10262 level 2)
- Coolant header
- Double flange track roller
- 12V electric supply
- Fire extinguisher
- General tool kit
- Electric pump, grease gun with indicator
- Interconnected horn and warning light
- Large-capacity batteries
- Lower wiper
- Provision for fast fuel fill
- Radio AM/FM
- Rain visor
- Rear view monitoring system
- Seat belt 78 mm 3”
- Shoes:
  - 110 mm 28” double grouser
  - Spare parts for first service
  - Track frame undercover (center)
  - Vandalism protection locks

- 12V electric supply

- 12V electric supply

- 12V electric supply

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WALK-AROUND

Productivity Features

- **High Work Equipment Speed**
  Arm quick return circuit enables loading work to be quicker than ever, by reducing hydraulic pressure loss of arm dumping.

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

- **Large Digging Force**
  Pressing the Power Max function button temporarily increases the digging force.

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

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

- **Swing Priority Mode**
  The swing priority mode improves efficiency for loading dump trucks.

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

  See page 5.

Maintenance Features

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

- **Easy Checking and Maintenance of Engine**
  Large handrail, step and catwalk provide easy access to the engine and hydraulic equipment.

  See page 11.

Excellent Reliability and Durability

- **Strengthened Boom and Arm**

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

- **Fuel Pre-filter with water separator and High Efficiency Fuel Filter**
  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.

  See pages 6, 7.

Ecology and Economy Features

- **Low Emission Engine**
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 provides 363 kW / 487 HP. This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

- **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
  - Low-noise muffler

- **Mode Selection**
  - Economy mode improves fuel consumption.
  - Eco-gauge for energy-saving operations
  - Extended idling caution for fuel conservation
  - Auto deceleration and auto idling system reduce fuel consumption.

  See pages 4, 5.

Working Environment

- **Large Comfortable Cab**
  - Low-noise cab
  - Low vibration with cab damper mounting
  - Highly pressurized cab with optional air conditioner
  - Operator seat and console with armrest that enables operations in the appropriate operational posture.
  - OPG top guard level 2 (by ISO 10262 standard) capable with bolt-on top guard

  See pages 8, 9.

Large TFT LCD Monitor

- **Easy-to-see and use 7” large multi-function color monitor**
  - Can be displayed in 12 languages for global support.

  TFT : Thin Film Transistor
  LCD : Liquid Crystal Display

  See page 10.
**PRODUCTIVITY & ECOLOGY FEATURES**

**Komatsu Technology**

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this “Komatsu Technology,” and adding customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment friendly excavators.

**Low Emission Engine**
Komatsu SAA6D140E-5 engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

**Electronically Controlled Variable Speed Fan**

Contributes to Low Fuel Consumption and Low Noise

The electronic control system sets the revolution 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 revolution.

**Lower and Economical Fuel Consumption Using Economy Mode**

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

**Reduction of Ambient Noise**

Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan and low-noise muffler.

**Eco-gauge that Assists Energy-saving Operations**

Eco-gauge is equipped for environment friendly energy-saving operations. Focus on operation in the green range allows reduction of CO₂ emission and fuel consumption.

**Idling Caution**

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

**Auto Deceleration and Auto Idling System**

Auto deceleration system is equipped to reduce fuel consumption and operating noise. Also, engine idling speed can be set at a lower speed on monitor with auto idling system.

**Working Modes Selectable**

P and E modes established work modes are further improved. 

**P mode** – Power or work priority mode has low fuel consumption, but fast equipment speed and maximum production and power are maintained.

**E mode** – Economy or fuel saving mode further reduces fuel consumption, but maintains the P-mode-like working equipment speed for light duty work.

**Large Digging Force**

With the one-touch Power Max. function digging force is further increased. (8.0 seconds of operation)

**Maximum arm crowd force (ISO):**

- 327 kN (33.3 tonf) (with Power Max.)
- 298 kN (30.4 tonf)

**Maximum bucket digging force (ISO):**

- 363 kN (37.0 tonf) (with Power Max.)
- 397 kN (40.5 tonf)

*Measured with Power Max function, 3800 mm 11'10" arm and ISO rating

**Eco-gauge that Assists Energy-saving Operations**

Eco-gauge is equipped for environment friendly energy-saving operations. Focus on operation in the green range allows reduction of CO₂ emission and fuel consumption.

**Selection**

<table>
<thead>
<tr>
<th>Selection</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>Off flow to the swing motor is increased. 180° loading operations are most efficient.</td>
</tr>
<tr>
<td>OFF</td>
<td>Off flow to the boom is increased. 90° loading operations are most efficient.</td>
</tr>
</tbody>
</table>

**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 on inclined sites.

**Two-mode Setting for Boom**

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

**Shockless Boom Control**

The PC850-8E0 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.

**Large Digging Force**

With the one-touch Power Max. function digging force is further increased. (8.0 seconds of operation)

**Maximum arm crowd force (ISO):**

- 327 kN (33.3 tonf) (with Power Max.)
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*Measured with Power Max function, 3800 mm 11'10" arm and ISO rating

**Work Equipment Speed**

An arm quick return circuit is provided for arm dumping. This returns a portion of oil flow directly to the hydraulic tank at arm dumping to reduce the hydraulic pressure loss. Speedier loading work can be accomplished by work equipment with quicker movement.
RELIABILITY & DURABILITY FEATURES

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.

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

**High Efficiency Fuel Filter**
Fuel system reliability is even better with high efficiency fuel filter.

**High-pressure In-line Filtration**
The PC850-8E0 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.

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

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

**Sturdy Guard Rings**
Metal guard rings protect all the hydraulic cylinders and improve reliability.

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

**STEP 1**
Observing proper safety procedures, place tooth onto adapter (as shown).

**STEP 2**
Insert fastener, making sure it is in the unlocked position (as shown).

**STEP 3**
Using the correct size socket, rotate the pin locking shaft 90˚ clockwise (as shown) to finish the installation.

**STEP 4**
To remove fastener, use the correct size socket to rotate the pin locking shaft 90˚ counter-clockwise (as shown). Remove fastener and tooth. Repeat steps 1-3 for a new installation.

**Metal Guard Rings**
Guard the machine pipings against being hit by rocks from below and prevents hydraulic components and the engine from being damaged.

**Frame Structure**
The revolving frame mount and center frame mount on the swing circle are no welding structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

**Strengthened Quarry Bucket Provides Outstanding Wear-resistance**
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 KMAX 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.

**Quarry Bucket with KMAX Tooth**
- High-tensile strength steel
- High-tensile strength steel
- Koma-hard materials

**Metal Guard Ring**
(Shield)"
Wide Newly-designed Cab
Newly-designed wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational posture of armrest together with the console. Reclining the seat further enables you to place it into the fully flat state with the headrest attached.

Rigid and Safe Operator’s Cab
OPG top guard
The OPG top guard securely protects the operator’s cab and conforms to the ISO standard.

Low Noise Design Cab
The newly-designed cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and air conditioner allows the operator to work in quiet condition.

Operator ear’s noise 2 dB(A) reduced
Compared with the current model

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.

Low Vibration with Cab Damper Mounting
PC850-8E0 uses viscous damper mounting for cab that incorporates longer stroke and the addition of a spring. The cab damper mounting combined with high rigidity deck aids vibration reduction at operator seat.

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

Automatic Air Conditioner (optional)
Enables you to easily and precisely set cab atmosphere with the instruments on the large LCD. 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. Defroster function keeps front glass clear.

Rear View Monitoring System (optional)
The operator can view the rear of the machine with a color monitor screen.

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 areas provide anti-slip performance.

Horn Interconnected with Warning Light (optional)
gives visual and audible notice of the excavator’s operation when activated.

Lower Wiper (optional)
Lower windshield wiper improves visibility in rain.

Defroster (optional)
Cab Frame Mounted Wiper
Bottle Holder and Magazine Rack
Large Multi-lingual LCD Monitor

A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. Simple and easy to operate switches. Function keys facilitate multi-function operations. Displays data in 12 languages to support operators around the world.

Mode Selection

The multi-function color monitor has Power mode and Economy mode (four levels).

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (P0,P1)</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>

Additionally, it is possible to select “Heavy lift mode” or “Swing priority mode” for each Power mode and Economy mode.

Easy Checking and Maintenance of Engine

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

Wide Catwalk

Easier, safer operator cab access and maintenance checks.

One-touch Drain Cock

Easier, cleaner engine oil changes.

Easy Cleaning of Cooling Unit

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

Steps Connected to the Machine Cab

Steps allows access from left hand catwalk to top of machine for engine check and maintenance.

Convenient Utility Space

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

Divided Type Engine Cover

The divided engine cover allows easy access to inspection points around the engine.

Long-life Oil, Filter

Uses high-performance filtering materials and long-life oil. Extends the oil filter replacement interval.

Dust Indicator with 5-step Indication

Informs of air cleaner clogging in 5 steps to warn of filter condition.

EMMS

Equipment Management Monitoring System

Monitor Function

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

Maintenance Function

Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

Trouble Data Memory Function

Monitor stores abnormalities for effective troubleshooting.

EMMS Monitor Function

- Engine oil & Engine oil filter every 500 hours
- Hydraulic oil every 5000 hours
- Hydraulic oil filter every 1000 hours

Washable Cab Floormat

Cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

Electric Pump, Grease Gun with Indicator (optional)

Greasing is made easy with the electric pump, grease gun with indicator.

Grease can drum storage location

The grease gun can be reached from ground level.

Photo may include optional equipment.
PC850-8E0 HYDRAULIC EXCAVATOR

SPECIFICATIONS

ENGINE

Model: Komatsu SAA6D14E-5
Type: 4-cylinder, water-cooled, direct injection
Aspiration: Turbocharged, aftercooled, cooled EGR
Number of cylinders: 6
Bore: 140 mm
Stroke: 165 mm
Piston displacement: 15.24 ltr
Governor: All-speed, electronic

Horsepower:
- SAE J1995: Gross 370 kW 496 HP
- ISO 50249: SAE J1945
- Net 265 kW 487 HP
Rated rpm: 1800 rpm
Fan drive type: Hydraulic

*Net horsepower at the maximum speed of radiator cooling fan in 330 kW 440 HP EPA Tier 3 and EU Stage 3A emissions certified.

HYDRAULIC SYSTEM

Type: Open-center load-sensing system
Number of selectable working modes: 2

Main pump:
- Type: Variable capacity piston pumps
  - Pumps for: Boom, arm, bucket, swing, and travel circuits
  - Maximum flow: 194.5 ltr/min
  - Total flow: 194.5 ltr/min

Fan drive pump:
- Type: Variable capacity piston pumps

Hydraulic motors:
- Travel: 2 x axial piston motor with parking brake
- Swinging: 2 x axial piston motor with swing holding brake

Relief valve setting:
- Travel: 34.3 MPa
- Swinging: 26.5 MPa
- Heavy lift: 13.8 MPa

COOLANT AND LUBRICANT CAPACITY (REFILLING)

- Radiator: 470 ltr
- Final drive: 5.3 U.S. gal
- Hydraulic oil: 5.23 U.S. gal

BACKHOE Dimensions

PC850-8E0

Backhoe bucket diameter (SAE) at power max.: 1.18 m
Bucket digging force: 114 kN

PC850-8E0 SE spec.

Backhoe bucket diameter (SAE) at power max.: 1.18 m
Bucket digging force: 144 kN

WORKING RANGE

- Rated rpm: 1800 rpm
- Fan drive type: Hydraulic

COOLANT AND LUBRICANT (REFILLING)

Fuel tank: 258.9 U.S. gal
Radiator: 1.4 U.S. gal

COOLANT AND LUBRICANT (FILLING)

- Fuel tank: 258.9 U.S. gal
- Radiator: 1.4 U.S. gal
- Final drive: 1.25 U.S. gal
- Hydraulic oil: 5.23 U.S. gal
- Engine oil: 1.78 U.S. gal
- Turbine oil: 0.6 U.S. gal
- Final drive: 1.25 U.S. gal
- Hydraulic oil: 5.23 U.S. gal
- Engine oil: 1.78 U.S. gal
- Turbine oil: 0.6 U.S. gal

DIAGRAM

References:
- The dimensions are based on over-side stability with fully loaded bucket at maximum reach.
- One general purpose use, density up to 1.5 t/m³; 3,300 lb/ft³
- One general purpose use, density up to 1.5 t/m³; 2,500 lb/ft³
- Not usable

Dimensions:
- Overall Length: 11'10" boom
- Overall Length: 27'0" arm
- Overall Length: 12'10" bucket
- Overall Length: 2'11" ground level
TRANSPORTATION GUIDE

PC850-8E0

Equipment:
- Boom: 8.04 m (26'5")
- Arm: 3.8 m (12'6")
- Bucket: 3.4 m³ (4.5 yd³)
- Shoe: 610 mm (24")
- Counterweight: 11.85 ton (26,120 lb)

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

HEAVY LIFT "OFF"

<table>
<thead>
<tr>
<th>A</th>
<th>Maximum</th>
<th>9.0 m (30')</th>
<th>7.5 m (25')</th>
<th>6.0 m (20')</th>
<th>4.5 m (15')</th>
<th>3.0 m (10')</th>
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<td>3.0 m</td>
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PC850-8E0 SE spec.

Equipment:
- Boom: 7.1 m (23'4")
- Arm: 2.9 m (9'8")
- Bucket: 4.3 m³ (6.2 yd³)
- Shoe: 610 mm (24")
- Counterweight: 11.85 ton (26,120 lb)

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
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</tr>
</tbody>
</table>

Backhoe

Specs shown include the following equipment:
- Boom spec: Boom 3046 mm (10'0")
- Arm 3600 mm (11'0")
- Bucket 3.4 m³ (4.5 yd³)
- Shoe 610 mm (24")

SE spec.: Boom 7100 mm (23'4")
- Arm 2450 mm (8'1")
- Bucket 3.4 m³ (4.5 yd³)
- Shoe 610 mm (24")

3 Kits Transportation

Work equipment assembly (Backhoe)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Weight</th>
<th>SE spec.</th>
<th>US ton</th>
</tr>
</thead>
</table>
| lb   | 3350   | 15.1     | 6.9

4 Kits Transportation

Weight | SE spec. | US ton |
|------|----------|--------|
| lb   | 3350     | 15.1   | 6.9