3 Kites Transportation

- **Base machine** (Both PC800-7 and PC800SE-7 are designed with the same weight and dimensions.)
  - **Weight**: PC800-7: 18.3 t
  - **Dimensions**: 7100 mm x 2395 mm x 2945 mm

4 Kites Transportation

- **Base machine** (Both PC800-7 and PC800SE-7 are designed with the same weight and dimensions.)
  - **Weight**: PC800-7: 18.3 t
  - **Dimensions**: 7100 mm x 2395 mm x 2945 mm

**Engine and Related Items**

- **Engine**: Komatsu SAA6D140E-3
  - **Power**: 338 kW at 1800 rpm
  - **Dimensions**: 2600 mm x 1040 mm x 1090 mm

**Hydraulic Excavator**

- **Operating Weight**
  - PC800-7: 37300–37800 kg
  - PC800SE-7: 37300–37800 kg
  - **Dimensions**: 24900 mm x 27950 mm x 33800 mm

**Hydraulic Controls**

- **Power:** Optional Open Center Load-Sensing (OCLSS) and engine speed sensing (pump and engine mutual control) system
- **Boom**
  - **Length**: 23'4" (7100 mm), HD arm assembly
  - **Width**: 8040 mm
- **Swing**
  - **Length**: 23'4" (7100 mm), HD arm assembly
  - **Width**: 8040 mm

**Optional Equipment**

- **Call-out guards ISO 10347 level (2) CP
  - **Lighting**: Working lights-2 boom, 2 cab top front, 1 cab bottom
  - **Starting motors, 11kW
  - **Batteries, 170 Ah, 2 x 12 V
  - **Engine, Komatsu SAA6D140E-3
  - **Air cleaner, double element, dry
  - **Alternator, 75 Amp, 24 V
  - **Grease gun, electric pump with indicator
  - **12V electric supply
  - **Double frange truck roller
  - **KOMTRAX
  - **Remote greasing for radiator fan drive
  - **Large handrails
  - **Marks and plates, English
  - **Horn, electric
  - **Rear view mirror (RH)
  - **Rain visor
  - **Shoes:
  - **Rear view mirror (LH)
  - **Shoes:
  - **Seat belt 78 mm

**ELECTRICAL SYSTEM**

- **Engine, Komatsu SAA6D140E-3
  - **Air cleaner, double element, dry
  - **Alternator, 75 Amp, 24 V
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  - **Shoes:
  - **Seat belt 78 mm
PC800-7 Series Hydraulic Excavator

WALK-AROUND

Productivity Features

- **Large digging force**
  - High operation efficiency with large digging force in rugged work sites.
- **Large size bucket**
  - The wide and shallow contour facilitates loading.
- **Heavy lift mode**
  - The heavy lift mode increases the lifting force by 10%.
- **Swing priority mode**
  - The swing priority mode improves efficiency for loading dump trucks.
- **Two-mode setting for boom**
  - Switch selection allows either powerful digging or smooth boom operation.
- **Fuel consumption**
  - is reduced 12% with Economy Mode.
- **Large drawbar pull and steering force**
  - provide excellent mobility.
- **Excellent Swing Performance**
  - provides excellent swing performance on slope. See pages 4, 5.

Excellent Reliability and Durability

- **Strengthened boom** and arm have large cross-sections and reliable welding for maximum strength and reliability.
- **Reinforced buckets** are highly resistant against wear and impacts.
- **Shockless boom**
  - Switch selection reduces chassis vibration after sudden stops.
- **Boom foot hoses** are arranged under the boom foot, improving hose life and safety.
- **Face seals**, which have excellent sealing performance, are used for the hydraulic hoses.
- **Protected hydraulic circuit**
  - 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.
- **Sturdy guards**
  - shield the travel motors against damage from rocks.
- **Highly Reliable Electronic Devices**
  - Exclusively designed electronic devices have passed severe testing.
  - Controller, Sensors, Connectors, Heat resistant wiring

Harmony with Environment

- **Low emission engine**
  - Powerful turbocharged and air-to-air aftercooled Komatsu SA6D140E-3 engine provides 338 kW 454 HP.
  - See page 4.

Large Comfortable Cab

- **Low noise and vibration with cab damper mounting**
- **Large-capacity cab with narrow corner posts provides improved visibility**
- **Large-capacity air conditioner (optional)**
- **Pressurized cab prevents external dust from entering**
  - See page 6.

Easy Maintenance

- **Replacement interval is extended for new hydraulic filter.**
  - See page 7.

Advanced monitor features

- **Machine condition can be checked with Equipment Management Monitoring System (EMMS).**
- **Two working modes combine with heavy lift mode for maximum productivity.**
  - See page 5.

Large handrail, step and catwalk

- **Provide easy access to the engine and hydraulic equipment.**
  - See page 7.

Photo may include optional equipment.
Heavy Lift Mode
Gives the operator 10% more lifting force on the boom when needed for handling rock or heavy lifting applications.

Two Settings for the 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.

Swing Priority Setting
The swing priority setting allows the operator to use the same easy motion for 180° loading as 90° loading operations. By altering the oil flow, this setting allows you to select either boom or swing as the priority for increased production.

Shockless Boom Control
The PC800-7 features a shockless valve (double-check slow return valve) that 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 prevented.

Working Mode Selection

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Active Mode</td>
<td>Maximum production power</td>
</tr>
<tr>
<td>E</td>
<td>Economy Mode</td>
<td>Good fuel economy, Good cycle time</td>
</tr>
</tbody>
</table>

Hydraulics
Unique two pump system assures smooth compound movement of the work equipment. OLSS (Open Center Load Sensing System) controls all pumps for efficient engine power use. This system also reduces hydraulic loss during operation.

Active and Economy mode
The PC800-7 excavator is equipped with two working modes. Each mode is designed to match engine speed, pump speed, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

Large Bucket Capacity
Large capacity bucket has large and shallow contour offers easy loading.

Excellent Machine Stability
The rear center of gravity and the 12.0 tonne 13.2 U.S. tonne counterweight provides the stability and lifting capacity needed for maximum productivity.

Engine
The PC800-7 gets its exceptional power and work capacity from its Komatsu SAA6D140E-3 engine. Output is 338 kW 454 HP providing more hydraulic power. In addition, the fuel consumption is reduced by 12% when using Economy Mode.

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

Large Drawbar Pull and Steering Force
Since the machine has a large drawbar pull and a high steering force, it demonstrates excellent mobility when even it is being used on inclined sites. In addition, this machine is equipped with an automatic travel speed shifting system, which makes automatic Hi/Lo shifts.

Excellent Swing Performance
Twin-swing motor system of PC800-7 provides excellent swing performance on slope.

High Production and Low Fuel Consumption
**Excellent Reliability and Durability**

**Reinforced Bucket**
PC800-7 bucket is designed exclusively for quarry use and is higher strength for impact and wear. It is highly resistant against wear and impact and demonstrates high performance and reliability. Combined with the saddling type side shroud and the corner teeth, the life of the bucket has been greatly improved.

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

**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.

**High-pressure In-Line Filtration**
The PC800-7 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.

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

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

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

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

**Track roller guard (full length)**

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

**High-pressure In-Line Filtration**
The PC800-7 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.

**DT-type connectors**
Seal tight and have higher reliability.

**Easy Maintenance**

**Komatsu designed the PC800-7 for easy service access.**

**Wide Catwalk (optional)**
Wide walkway for maintenance is provided around the engine and hydraulic components, allowing easy access to inspection and maintenance points.

**Divided Type Engine Cover**
The divided engine cover allows inspection points around the engine to be easily accessed.

**Motorized Grease Gun Equipped with Hose Reel (optional)**
Greasing is made easy with the electric motorized grease gun and indicator.

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

**KOMTRAX® System (optional)**
The KOMTRAX system monitors machine condition, operating status, operating location, etc., and provides timely notification of any machine problems.

Since data is transmitted via satellite communication system, secure data communication is possible from any operating site including a quarry or a mine, further improving machine reliability. (There are some countries where this feature is not in service. Please consult Komatsu distributor for availability.)

**Photo may include optional equipment.**
**Working Environment**

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

**Large Comfortable Cab**

**Superb Visibility**
The PC800-7’s large capacity cab and increased glass area provide superb front visibility.

**Cab Mounts**
The new cab damper mounting reduces vibration and noise at operator’s seat.

**Low Noise Design**
The noise levels at the operator’s ear are decreased by improving the cab mounts and cab sealing performance.

**Multi-Position Controls**
The multi-position, pressure proportional control levers allow the operator to work in comfort while maintaining precise control.

A double-slide mechanism allows the seat and controllers to move together or independently, allowing the operator to position the controllers for maximum productivity and comfort.

**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.

**Single sheet fixed glass**
The glass installed in the machine has excellent visibility since it is laminated to prevent shortening and has less vibration.

**See-through skylight equipped with a sun shade**
The upward visibility is excellent.

**Additional head lamp**
Night operation is safe.

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

**Horn interconnected with warning light (optional)**
Give visual and audible notice of the excavator’s operation when activated.

**Pressurized Cab**
The optional air conditioner, air filter, and a higher internal air pressure (10 mm Hg, 0.4” in Hg) prevent external dust from entering the cab.

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

**Safety Features**

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

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

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

Large handrails (standard) and wide catwalk (optional) are provided around revolving frame for easier and safer access to engine and hydraulic components.

Photo may include optional equipment.
Hydraulic motors:
Governor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . All-speed, electronic
Swing speed . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6.8 rpm
Swing reduction . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Planetary gear
Maximum flow:
Number of cylinders . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6
Type . . . . . . . . . . . . . . . . . . 4-cycle, water-cooled, direct injection
Model . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Komatsu SAA6D140E-3

Hydraulic cylinders:
Pilot circuit . . . . . . . . . . . . . . . . . 2.9 MPa 30 kg/cm²
Heavy lift circuit . . . . . . . . . . . . . 34.3 MPa 350 kg/cm²
Travel circuit . . . . . . . . . . . . . . . 34.3 MPa 350 kg/cm²
Type . . . . . . . . . . . . . . . . . . . . . . Variable-capacity piston pumps

8.9" x 55.9"
Std . . . . . . . . . . . . . . . . . . 1 – 185 mm x 1820 mm
7.3" x 63.4"

SWING SYSTEM
2 x 130.5 U.S. gpm
430 psi

Final drive, each side . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 20 ltr
Radiator . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 85 ltr
Fuel tank . . . . . . . . . . . . . . . . . . . . . . . . . . . 880 ltr
116.2 U.S. gal
6.5 x 2 U.S. gal

PC800SE-7:   Operating weight, including 7100 mm
Low . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2.8 km/h
9'8"     28" 169,470 lb 15.6 psi 168,370 lb 15.5 psi
Operating Ground Operating Ground
5.62 yd³

Arm crowd force (ISO) 298 kN 341 kN 298 kN
Arm crowd force (SAE) 285 kN 331 kN 285 kN
H Min. swing radius 5985 mm
B Max. dumping height 8235 mm
27'0" 39'3" 14'1"

When retracted
67,020 lb
81,570 lb
74,520 lb
33800 kgf /
39900 kgf /
43900 kgf /

11'1" 13'6" 11'10"

4050 kg
3435 kg
3500 kg

6980 mm
11330 mm
7100 mm
37000 kgf /
29100 kgf /
32200 kgf /

44'0" 27'3" 22'11"

PC800-7
• Bucket: 4.0 m³ (52"")
• Lifting capacity
• Raising over front
• Rating at maximum reach

RATING AT MAXIMUM REACH

PC800SE-7
• Bucket: 5.0 m³ (65"")
• Lifting capacity
• Raising over front
• Rating at maximum reach

Backhoe bucket, opera-

Bucket: 3.4 m³
Arm: 3.6 m

13'11" 15'2" 13'10"

30400 kgf /
32200 kgf /
33800 kgf /

PC800-7

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PC800-7

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