FLYWHEEL HORSEPOWER
246 kW 330 HP @ 1850 rpm

OPERATING WEIGHT
PC400-7: 41400 – 42250 kg
91,270 – 93,140 lb
PC400LC-7: 42400 – 43300 kg
93,480 – 95,460 lb

Photo may include optional equipment.
Building on the technology and expertise Komatsu has accumulated since its establishment in 1921, GALEO presents customers worldwide with a strong, distinctive image of technological innovation and exceptional value. The GALEO brand will be employed for Komatsu’s full lineup of advanced construction and mining equipment. Designed with high productivity, safety and environmental considerations in mind, the machines in this line reflect Komatsu’s commitment to contributing to the creation of a better world.

**Genuine Answers for Land and Environment Optimization**

**Productivity Features**

- **High Production and Low Fuel Consumption**
  Production is increased during Active mode while fuel efficiency is improved.

- **Low Fuel Consumption and High Output Engine**
  A powerful turbocharged and air to air aftercooled Komatsu SAA6D125E provides 246 kW 330 HP. Low fuel consumption is achieved by adopting an electronic controlled fuel injection system.

- **Large Digging Force**
  Arm crowd force is increased 8% and bucket digging force is increased 9% when the Power Max function is applied. (compared with PC400-6).

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

  See page 4 and 5

- **Excellent Machine Stability**
  Machine stability and balance is improved by a new design counterweight.

- **Higher Lifting Capacity**
  PC400-7’s lateral stability is improved and lifting capacity is increased.

  See page 5

**Easy Maintenance**

- Replacement interval is extended for engine oil, engine oil filter and hydraulic filter.
- Easy removal and installation of the radiator and oil cooler
- Fuel tank capacity is increased.
- New bushing design on work equipment extend lubricating interval (optional).
- Easy access for engine inspection
- High-capacity air cleaner

See pages 8 and 9

**Harmony with Environment**

- Economy mode saves fuel consumption (reduced by approx. 20%).
- Low operation noise
- Designed for optimal use of recyclable materials

**Large Comfortable Cab**

New PC400-7’s cab volume is increased by 14%, offering an exceptionally roomy operating environment

- Highly pressurized cab with optional air conditioner
- Low noise design
- Low vibration with cab damper mounting
- OPG capable with optional bolt-on top guard

See page 5 and 6

**Variable Track Gauge (optional)**

- Greatly increases lateral stability
- Compliant with transportation regulations

See page 5

**Reduced revolving frame damage**

- Clearance between the revolving frame and track increased by 30%.

See page 5

**Bucket Capacity**

- 1.3 – 2.2 m³
- 1.70 – 2.88 yd³

**FLYWHEEL HORSEPOWER**

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**OPERATING WEIGHT**

- **PC400-7**: 41400 – 42250 kg
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  93,480 – 95,460 lb

**Variable Track Gauge (optional)**

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See page 5

**OPG (Operator Protective Guards)**

- Level 2 by ISO 10262 (formerly FOG)

See page 6 and 7

**High Production and Low Fuel Consumption**

Production is increased during Active mode while fuel efficiency is improved.

**Large Digging Force**

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**Two-mode Setting for Boom**

Switch selection allows either powerful digging or smooth boom operation.

See page 4 and 5
High Production and Low Fuel Consumption

High production and low fuel consumption are achieved through the following two operation modes:

Active mode, with maximum engine output to handle large production, while keeping fuel consumption low; and Eco mode for light duty applications, which enables operation at a speed comparable to Active mode with even lower fuel consumption. The two modes, Active mode for handling "large production" and Eco mode for "low fuel consumption" have been significantly improved.

**ACTIVE MODE**

This mode handles large production by providing powerful and speedy operation, and achieves economical efficiency by substantial reduction of fuel consumption.

Economy mode

Operation speed equal to that of the Active mode can be achieved when handling light duty operation while also keeping fuel consumption low.

**ECONOMY MODE**

A 246kW (330HP) Komatsu SAA6D125E engine, is the largest in its class. High power and low fuel consumption are achieved by optimizing fuel injection via electronic control.

**SUBSTANTIALLY IMPROVED STABILITY**

Improved lateral stability is achieved by increasing the counterweight (330kg 730lb) and improving the balance of the machine body.

**Lateral Stability**

PC400 - PC400LC 15% better*

*(comparison with current model)

**LARGE LIFTING CAPACITY**

PC400-7's improved lateral stability increases lifting capacity.

**VARIABLE TRACK GAUGE (OPTIONAL)**

- Lateral stability is significantly improved when operating with the gauge extended.
- Lateral stability is increased by 30% (compared with the fixed gauge of the current model).
- Complies with transportation regulations by retracting the gauge.

**REDUCED REVOLVING FRAME DAMAGE**

Damage to the revolving frame when going over rocks is reduced by increasing the clearance between the revolving frame and track.

**SMOOTH LOADING OPERATION**

Two return hoses improve hydraulic performance. In the arm out function, a portion of the oil is efficiently returned to the tank.

**MAXIMUM DIGGING FORCE AMONG THE 40-TON CLASS**

With the addition of a one-touch power max. function (operation time of 8.5 seconds), the digging force has been further increased.

- Maximum arm crowd force (ISO): 198 kN (20.2t) ➔ 214 kN (21.8t) (with Power Max.) 8% better*
- Maximum bucket digging force (ISO): 252 kN (25.7t) ➔ 275 kN (28.0t) (with Power Max.) 9% better*

*(comparison with current model)

**TWO BOOM SETTINGS**

Smooth mode provides easy operation for gathering blasted rock or scraping down operation. When maximum digging force is needed, switch to Power mode for more effective excavating.

- Boom floats upward, reducing lifting of machine front. This facilitates gathering blasted rock and scraping down operations.
- Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.
The cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

**Comfortable Cab**
New PC400-7’s cab volume is increased by 14%, offering an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

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

**Low Noise Design**
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

**Low Vibration with Cab Damper Mounting**
PC400-7 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck aids vibration reduction at the operator’s seat.

Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL). dB (VL) is index for expressing size of vibration.

**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.

**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 control levers to move together or independently, allowing the operator to position the controls for maximum productivity and comfort.

**Washable Cab Floormat**
The PC400-7’s cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.

**Defroster (optional)**
Cab Frame Mounted Wiper
Bottle Holder and Magazine Rack

**Safety Features**

**Cab**
OPG (FOG) capable with optional bolt-on top guard.

**Wide Visibility**
The right side window pillar has been removed and the rear pillar reshaped to provide better visibility. Blind spots have been decreased by 34%.

**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.

Steps with non-skid sheet and large handrail. Steps with non-skid sheet provide anti-slip footing for added safety.
Self-Diagnostic Monitor
The PC400-7 features the most advanced diagnostics system in the industry. The Komatsu exclusive system identifies maintenance items, reduces diagnostic times, indicates oil and filter replacement hours and displays error codes.

Continuous Machine Monitoring System
When turning the starting switch ON, Check-before-starting items and caution items appear on the liquid crystal panel. If abnormalities are found, a warning lamp blinks and a warning buzzer sounds. The continuous machine condition checks help prevent the development of serious problems and allows the operator to concentrate on the operations.

Abnormalities Shown on Electronic System Display
When an error occurs during operation, a user code is displayed. When a critical user code is displayed, a caution lamp blinks and a warning buzzer sounds to prevent the development of serious problems.

Oil Maintenance Function
When the machine exceeds oil or filter replacement time, the oil maintenance monitor lights to inform the operator.

Easy Maintenance
Easy removal and installation of the radiator (side-by-side cooling)
Removal and installation of the radiator and oil cooler are made easier by locating them side-by-side.

Easy Access for Engine Inspection
The engine oil check pipe, oil filler, and oil filter, etc., are located on the left side of the engine.

Reducing Maintenance Costs
Hydraulic oil filter replacement interval is extended from 500 to 1000 hours. Engine oil and filter replacement interval are extended from 250 to 500 hours.

Fuel Tank Capacity Increased
Fuel tank capacity is increased from 605 ltr 160 U.S. gal to 650 ltr 172 U.S. gal to extend operating hours before refueling. The fuel tank is treated for rust prevention and improved corrosion resistance.

High-Capacity Air Cleaner
High capacity air cleaner is comparable to that of larger machines. The air cleaner can extend air cleaner life during long-term operation and prevents early clogging and resulting power decrease. Reliability is improved by a new seal design.

VALUE ADDED OPTIONS
Multi-Function Color Monitor
A newly developed Multi-Function Color Monitor has multiple functions, such as Working mode selection, hydraulic pump oil flow adjustment for matching to attachment, and maintenance interval notice, etc.

Working Mode Selection
The Multi-Function Color Monitor has Lifting mode in addition to the standard three-mode selection (A, E, and B modes).

Hydraulic Pump Oil Flow Adjustment System
When selecting attachments (breaker, crusher, etc.) and B, A, or E mode is selected, it is possible to adjust engine and hydraulic pump discharge flow to match attachment characteristics. Selection is possible throughout the LCD (Liquid Crystal Display). This system also allows throttling of the attachment side discharge flow to provide smooth work equipment movement and compound operation with work equipment and attachment.

Maintenance Costs Reduced
Work Equipment Lubrication Intervals Are Extended with Optional BMRC Bushings
The lubrication interval is greatly extended by using BMRC bushings on the work equipment. Also, resin shims are applied to prevent friction sound between and faces at the work equipment pin bracket. (except bucket pin bushings)

Work Equipment Lubrication Interval

<table>
<thead>
<tr>
<th>Work Equipment Lubrication Interval</th>
<th>unit: hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom foot and boom cylinder bottom bushings</td>
<td>500 50</td>
</tr>
<tr>
<td>Other bushings* (except bucket pin bushings)</td>
<td>500 100</td>
</tr>
</tbody>
</table>

BMRC (Beta Matrix Reinforced Copper Alloy)
A bushing made by combining a sintered copper layer impregnated with oil for better fitting and a backing metal. It is used for severe application parts which receive low rocking stresses and high loads to prevent creaking and scuffing because of its excellent sliding characteristics.

Resin Made Shim
Resin made shims are used for work equipment pin connections (except bucket connections) to reduce noise.
## SPECIFICATIONS

### ENGINE
- **Model:** Komatsu SAA6D125E-3
- **Type:** Water-cooled, 4-cycle, direct injection
- **Aspiration:** Turbocharged, aftercooled
- **Number of cylinders:** 6
- **Bore:** 125 mm 4.92"
- **Stroke:** 150 mm 5.91"
- **Piston displacement:** 11.04 ltr 674.9 cu in
- **Flywheel horsepower:** ISO S249 / SAE J1349.
- **Gross:** 259 kVA 347 HP
- **Net:** 246 kW 330 HP
- **Rated rpm:** 1860 rpm
- **Governor:** All-speed control, electronic

### SWING SYSTEM
- **Drive method:** Hydrostatic
- **Swing reduction:** Planetary gear
- **Swing circle lubrication:** Grease bath
- **Service brake:** Hydraulic lock
- **Holding brake/swing lock:** Mechanical disc brake
- **Swing speed:** 9.0 rpm

### UNDERCARRIAGE
- **Center frame:** X-frame
- **Track frame:** Box-section
- **Seal of track:** Seal ed track
- **Track adjuster:**
- **Number of shoes (each side):**
  - **PC400-7:** 46
  - **PC400LC-7:** 49

### COOLANT AND LUBRICANT
#### CAPACITY (REFILLING)
- **Fuel tank:** 650 ltr 172 U.S. gal
- **Coolant:** 342 ltr 90 U.S. gal
- **Engine:** 360 ltr 96 U.S. gal
- **Swing drive:** 162 ltr 42 U.S. gal
- **Hydraulic tank:** 248 ltr 66 U.S. gal

### OPERATING WEIGHT
- **Operating weight including 7600 mm 23’2” one-piece boom, 3380 mm 11’1” arm, SAE heated 1.9 m² 24.9 yd² bucket, rated capacity of lubricants, coolants, full fuel tank, operator, and standard equipment.

### DIMENSIONS
- **DIMENSIONS**
  - **Arm length:** 2400 mm 7’10”
  - **Overall length:** 3280 mm 10’10”
  - **Graveyard:** 258 mm 10”
  - **Swing circuit:** 37.3 MPa
  - **Self-reducing valve:** Pressure compensated valves

### WORKING RANGE
- **Arm:**
  - **Max. digging height:** 21’5”
  - **Max. digging depth:** 26’11”
  - **Max. digging reach:** 40’7”

### BACKHOE BUCKET, ARM, AND BOOM COMBINATION
- **Bucket Capacity (Shovel):**
  - **Load:** 3293 kg 7260 lb
  - **Width:** 1220 mm 48”
  - **Height:** 1000 mm 39.4”
  - **Number of buckets:** 2
  - **Arm Length:** 2300 mm 9’0”

### DRIVES AND BRAKES
- **Steering control:** Two levers with pedals
- **Drive method:** Hydrostatic
- **Maximum drawbar pull:** 329 kN 73730 lbf
- **Gradershaft:** 70% - 80%
- **Maximum travel speed (High):** 5.5 km/h 3.4 mph
- **(Auto/SHIF):** Low 3.0 km/h 1.9 mph
- **Service brake:** Hydraulic lock
- **Parking brake:** Mechanical disc brake

### BACKHOE BUCKET, ARM, AND BOOM COMBINATION
- **Bucket Capacity (Shovel):**
  - **Load:** 3293 kg 7260 lb
  - **Width:** 1220 mm 48”
  - **Height:** 1000 mm 39.4”
  - **Number of buckets:** 2
  - **Arm Length:** 2300 mm 9’0”

### HYDRAULIC EXCAVATOR
- **Bucket Capacity (Shovel):**
  - **Load:** 3293 kg 7260 lb
  - **Width:** 1220 mm 48”
  - **Height:** 1000 mm 39.4”
  - **Number of buckets:** 2
  - **Arm Length:** 2300 mm 9’0”

### LIGHT DUTY WORK
- **Bucket Capacity (Shovel):**
  - **Load:** 3293 kg 7260 lb
  - **Width:** 1220 mm 48”
  - **Height:** 1000 mm 39.4”
  - **Number of buckets:** 2
  - **Arm Length:** 2300 mm 9’0”
<table>
<thead>
<tr>
<th>Shoe: 2.49 yd³ SAE heaped</th>
<th>Bucket: 1.9 m³</th>
<th>Arm: PC400-7</th>
<th>LIFTING CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: Reach from swing center</td>
<td>B: Bucket hook height</td>
<td>C: Lifting capacity</td>
<td></td>
</tr>
<tr>
<td>Reach from swing center</td>
<td>Bucket hook height</td>
<td>Lifting capacity</td>
<td>Rating over front</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>0'</td>
<td>13400 lb</td>
<td>18600 lb</td>
<td>27500 lb</td>
</tr>
<tr>
<td>3.0 m</td>
<td>14200 lb</td>
<td>18000 lb</td>
<td>23900 lb</td>
</tr>
<tr>
<td>4.5 m</td>
<td>15800 lb</td>
<td>18600 lb</td>
<td>24900 lb</td>
</tr>
<tr>
<td>6.0 m</td>
<td>17100 lb</td>
<td>19600 lb</td>
<td>24900 lb</td>
</tr>
<tr>
<td>7.5 m</td>
<td>19100 lb</td>
<td>19900 lb</td>
<td>23700 lb</td>
</tr>
<tr>
<td>9.0 m</td>
<td>21700 lb</td>
<td>19900 lb</td>
<td>23100 lb</td>
</tr>
<tr>
<td>11.5 m</td>
<td>24500 lb</td>
<td>22300 lb</td>
<td>23700 lb</td>
</tr>
<tr>
<td>14'</td>
<td>27700 lb</td>
<td>16000 lb</td>
<td>27700 lb</td>
</tr>
</tbody>
</table>

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J2037. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
STANDARD EQUIPMENT

- Alternator, 35 Ampere, 24V
- Auto Decel
- Automatic engine warm-up system
- Automatic de-aeration system for fuel line
- Batteries, 110 Ah/2 x 12V
- Boom holding valve
- Cab, capable OFG (FOG) with optional bolt-on top guard
- Counterweight, 9220kg 20,330lb
- Dry type air cleaner; double element
- Electric horn
- Engine, Komatsu SAA6D125E
- Engine overheat prevention system
- Fan guard structure
- Hydraulic track adjusters (each side)
- Monitor panel, 7-segment
- Power maximization system
- PFC hydraulic control system
- Radiator & oil cooler dust proof net
- Rear view mirror, R.H.
- Starting motor, 7.5 kW
- Suction fan

OPTIONAL EQUIPMENT

- Additional fuel filter with water separator
- Air conditioner with defroster, hot & cool box
- Alternator, 50 ampere, 24 V
- Arms
  -2400 mm 7'10" arm assembly
  -2900 mm 9'6" arm assembly
  -3380 mm 11'1" arm assembly
  -4000 mm 13'1" arm assembly
  -4800 mm 15'9" arm assembly
- Batteries, 140 Ah/2 x 12 V
- Bolt-on top guard, (Operator Protective Guards level 2 (FOG))
- Boom, 7060 mm 23'2"
- Cab accessories
  —Rain visor
  —Sun visor
- Cab front guard
  —Full height guard
  —Half height guard
- Corrosion resistor
- Heater with defroster
- Long lubrication intervals for implement bushings
- Multi-Function Color Monitor
- Rearview mirror (LH)
- Seat belt, retractable
- Seat, suspension
- Service valve
- Shoes, triple grouser shoes
  —PC400-7 700 mm 27.6", 800 mm 31.5"
  —PC400LC-7 600 mm 23.6", 800 mm 31.5"
- Track roller guards (full length)
- Track frame undercover
- Travel alarm
- Working lights (2 on cab)
- Variable gauge track frame
- Ripper bucket for hard and rock ground
  —Capacity
    SAE heaped 1.1 m³ 1.44 yd³
    CECE heaped 1.0 m³ 1.31 yd³
  —Width 1250 mm 49.2"
- Single-shank ripper is recommended for rock-digging and crushing, hard soil digging, pavement removal works, etc.