PC1100-6 SERIES
HYDRAULIC EXCAVATOR AND SHOVEL

KOMATSU

NET HORSEPOWER
611 hp 456 kW

OPERATING WEIGHT
227,100 - 248,060 lb
103000 - 112500 kg

PHOTO SHOWN INCLUDES OPTIONAL EQUIPMENT.
Larger digging force
Bucket digging force is increased 12% while the arm crowd force is increased 16%.

Bucket digging force is increased 12% while the arm crowd force is increased 16%.

Advanced monitor features
- Self-diagnosis of 119 different problems.
- Three working modes combine with heavy lift mode for maximum productivity.

Strengthened boom and arm have larger cross sections and improved welding for maximum strength and reliability.

Faster hydraulics
The PC1100-6’s high-output engine provides plenty of hydraulic horsepower for faster movement and increased productivity.

Larger counterweight
The counterweight is increased by 3.5 tons and moved back almost 8” to provide greater stability.

Comfortable cab
Komatsu’s low-noise cab design uses viscous cab mounts for reduced noise and vibration.

Emissionized engine,
at 611 hp, it is the most powerful in its class.

Largest bucket capacity
in its class.

Shockless boom
control reduces the shaking of the chassis after sudden stops.

Two-mode setting for boom
By pushing a button it is possible to select either a smooth arm operation or powerful boom thrust.

Komatsu excavators own the reputation of being the best in the world. Operate the PC1100-6 and you’ll know why. The PC1100 combines increased production, lower operating cost, and greater comfort with the reliability you’ve come to depend on. Combine these features with outstanding resale value and you will know why over 90% of our customers gave an “excellent” rating for our excavator design and technology.

 Protected hydraulic circuit
The cool-running hydraulic system is protected with the most extensive filtration system available, including a high pressure in-line filter.

Metal guard rings prevent cylinder burning and dirt contamination.

Largest counterweight
The counterweight is increased by 3.5 tons and moved back almost 8” to provide greater stability.

Inside travel motor
increases drawbar pull by 13% and increases reliability.
Komatsu excavators own the reputation of being the best in the world. Operate the PC1100-6 and you’ll know why. The PC1100 combines increased production, lower operating cost, and greater comfort with the reliability you’ve come to depend on. Combine these features with outstanding resale value and you will know why over 90% of our customers gave an “excellent” rating for our excavator design and technology.

Larger digging force
Bucket digging force is increased 12% while the arm crowd force is increased 16%.

Metal guard rings prevent cylinder burning and dirt contamination.

Advanced monitor features
- Self-diagnosis of 119 different problems.
- Three working modes combine with heavy lift mode for maximum productivity.

Larger bucket capacity
in its class.

Protected hydraulic circuit
The cool-running hydraulic system is protected with the most extensive filtration system available, including a high pressure in-line filter.

Shockless boom control reduces the shaking of the chassis after sudden stops.

Two-mode setting for boom
By pushing a button it is possible to select either a smooth arm operation or powerful boom thrust.

Strengthened boom and arm have larger cross sections and improved welding for maximum strength and reliability.

Faster hydraulics
The PC1100-6’s high-output engine provides plenty of hydraulic horsepower for faster movement and increased productivity.

Inside travel motor increases drawbar pull by 13% and increases reliability.

Larger counterweight
The counterweight is increased by 3.5 tons and moved back almost 8” to provide greater stability.

Larger counterweight
The counterweight is increased by 3.5 tons and moved back almost 8” to provide greater stability.

Comfortable cab
Komatsu’s low-noise cab design uses viscous cab mounts for reduced noise and vibration.

Emissionized engine, at 611 hp, it is the most powerful in its class.

Large undercarriage features improved reliability and meets U.S. transportation regulations.

Large undercarriage features improved reliability and meets U.S. transportation regulations.

Large undercarriage features improved reliability and meets U.S. transportation regulations.

Large undercarriage features improved reliability and meets U.S. transportation regulations.

Large undercarriage features improved reliability and meets U.S. transportation regulations.
Remote greasing is used for the fan pulley shaft, tension pulley shaft, aftercooler fan, and other places that are difficult to reach, so lubrication is simplified.

One touch oil drain simplifies oil changes.

Quick coupler for hydraulic pressure inspection provides easy troubleshooting of the hydraulic system.

In-line filtration
The PC1100-6 has the most extensive filtration system available, providing an in-line filter as standard equipment. An in-line filter in the outlet port of the main hydraulic pump prevents any failure caused by the entry of dirt.

Self-diagnostic monitor allows display of vital machine data as well as provides a history of up to 20 previous failures.

One floor maintenance
A large platform is positioned in the center of the machine cab, allowing easy access to inspection and maintenance points from one location. Access doors open outward, making inspection of the engine and hydraulic systems easy.

The PC1100-6 incorporates many improvements in strength and reliability.

Frame structure
- The revolving frame and center frame mount are improved, changing the structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.
- The double lock connectors prevent electrical connections from loosening during operation. The arm cylinder bracket is attached directly to the rigid top plate. This structure transmits force directly to the side plates for greater durability.

Increased Reliability

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

- The track links are increased one class in size, making them the largest in this class.
- The travel motors are inside, preventing them from being damaged by rocks.
- The hydraulic idler cushion is replaced with a spring assembly, preventing any problems of oil leakage, and facilitating removal and installation for transportation.

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

Wide catwalks around the PC1100-6 safely provide access to maintenance areas.

Frame structure
The revolving frame and center frame mount are improved, changing the structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

The double lock connectors prevent electrical connections from loosening during operation. The arm cylinder bracket is attached directly to the rigid top plate. This structure transmits force directly to the side plates for greater durability.
Remote greasing is used for the fan pulley shaft, tension pulley shaft, aftercooler fan, and other places that are difficult to reach, so lubrication is simplified.

One touch oil drain simplifies oil changes.

Quick coupler for hydraulic pressure inspection provides easy troubleshooting of the hydraulic system.

In-line filtration
The PC1100-6 has the most extensive filtration system available, providing an in-line filter as standard equipment. An in-line filter in the outlet port of the main hydraulic pump prevents any failure caused by the entry of dirt.

Self-diagnostic monitor allows display of vital machine data as well as provides a history of up to 20 previous failures.

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

- The track links are increased one class in size, making them the largest in this class.
- The travel motors are inside, preventing them from being damaged by rocks.
- The hydraulic idler cushion is replaced with a spring assembly, preventing any problems of oil leakage, and facilitating removal and installation for transportation.

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

Increased Reliability

The PC1100-6 incorporates many improvements in strength and reliability.

Frame structure
The revolving frame and center frame mount are improved, changing the structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

The double lock connectors prevent electrical connections from loosening during operation. The arm cylinder bracket is attached directly to the rigid top plate. This structure transmits force directly to the side plates for greater durability.

The boom and arm have increased cross-sectional dimensions, as well as continuous both-side groove welding, improving digging, and side-contact strength.

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

- The track links are increased one class in size, making them the largest in this class.
- The travel motors are inside, preventing them from being damaged by rocks.
- The hydraulic idler cushion is replaced with a spring assembly, preventing any problems of oil leakage, and facilitating removal and installation for transportation.

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

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

- The track links are increased one class in size, making them the largest in this class.
- The travel motors are inside, preventing them from being damaged by rocks.
- The hydraulic idler cushion is replaced with a spring assembly, preventing any problems of oil leakage, and facilitating removal and installation for transportation.

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

Increased Reliability

The PC1100-6 incorporates many improvements in strength and reliability.

Frame structure
The revolving frame and center frame mount are improved, changing the structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

The double lock connectors prevent electrical connections from loosening during operation. The arm cylinder bracket is attached directly to the rigid top plate. This structure transmits force directly to the side plates for greater durability.

The boom and arm have increased cross-sectional dimensions, as well as continuous both-side groove welding, improving digging, and side-contact strength.

Increased Reliability

The PC1100-6 incorporates many improvements in strength and reliability.

Frame structure
The revolving frame and center frame mount are improved, changing the structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

The double lock connectors prevent electrical connections from loosening during operation. The arm cylinder bracket is attached directly to the rigid top plate. This structure transmits force directly to the side plates for greater durability.

The boom and arm have increased cross-sectional dimensions, as well as continuous both-side groove welding, improving digging, and side-contact strength.

Increased Reliability

The PC1100-6 incorporates many improvements in strength and reliability.

Frame structure
The revolving frame and center frame mount are improved, changing the structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

The double lock connectors prevent electrical connections from loosening during operation. The arm cylinder bracket is attached directly to the rigid top plate. This structure transmits force directly to the side plates for greater durability.

The boom and arm have increased cross-sectional dimensions, as well as continuous both-side groove welding, improving digging, and side-contact strength.
The LCD portion of the monitor has four different display modes that aid in identifying potential problems before they become major problems:

Four Diagnostic Modes

- Time Display mode
  - The default mode and shows the time and hour meter reading.
- User Code Display mode
  - Displays a trouble code and sounds an alarm when a problem has been detected.
- Trouble Data Memory mode
  - Monitors 32 separate items and stores up to 20 abnormalities over 999 hours for effective troubleshooting.
- Operation Data mode
  - Monitors 20 separate current operating conditions including system pressure and rpms to keep your machine operating at peak performance. In addition, 44-bit patterns allow you to diagnose electrical connections.

Together these modes allow you to troubleshoot 119 different problems to minimize downtime.

Three Working Modes

Working mode selection

The Avance excavator is equipped with three working modes. Each mode is designed to match engine speed, pump speed, and system pressure with the current application; giving you the flexibility to match equipment performance to the job at hand.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH</td>
<td>Maximum production</td>
<td>Maximum production/power</td>
</tr>
<tr>
<td>H</td>
<td>Normal digging and loading</td>
<td>Good cycle times</td>
</tr>
<tr>
<td>G</td>
<td>Light-duty</td>
<td>Maximum fuel efficiency</td>
</tr>
</tbody>
</table>

Heavy lift mode

Gives you approximately 10% more lifting force on the boom when you need it for handling rock or lifting large boulders.

Two settings for the boom

Smooth mode provides easy operation and longer component life for gathering blasted rock or scraping down 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.

Hydraulics

Unique three-pump system assures smooth compound movement of the work equipment. OLSS controls all three pumps for efficient engine power use. This system also reduces hydraulic loss during operation.

Engine

The PC1100-6 gets its exceptional power and work capacity from a Komatsu SAA6D170E-2 engine. Output is increased 13% to 611 hp, providing more hydraulic power while improving fuel efficiency. The engine meets emission regulations, including CARB, and noise levels are reduced for greater operator comfort.

Improved machine stability

The engine is moved 3.9” 100 mm to the rear, and the counterweight is increased from 14 tons to 17.5 tons, providing the stability needed for highest productivity.

Shockless boom control

The PC1100 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.

Additional features

- Large digging force
- Large drawbar pull
- Fast hydraulics
- Automatic hi-lo travel

Increased Productivity

The engine is moved 3.9” 100 mm to the rear, and the counterweight is increased from 14 tons to 17.5 tons, providing the stability needed for highest productivity.

Shockless boom control

The PC1100 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.

Additional features

- Large digging force
- Large drawbar pull
- Fast hydraulics
- Automatic hi-lo travel

Improved machine stability

The engine is moved 3.9” 100 mm to the rear, and the counterweight is increased from 14 tons to 17.5 tons, providing the stability needed for highest productivity.

Shockless boom control

The PC1100 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.

Additional features

- Large digging force
- Large drawbar pull
- Fast hydraulics
- Automatic hi-lo travel

Heavy lift mode

Gives you approximately 10% more lifting force on the boom when you need it for handling rock or lifting large boulders.

Two settings for the boom

Smooth mode provides easy operation and longer component life for gathering blasted rock or scraping down 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.

Hydraulics

Unique three-pump system assures smooth compound movement of the work equipment. OLSS controls all three pumps for efficient engine power use. This system also reduces hydraulic loss during operation.
The LCD portion of the monitor has four different display modes that aid in identifying potential problems before they become major problems:

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH</td>
<td>Maximum production</td>
<td>• Maximum production/power</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fast cycle times</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Heavy lift mode is available</td>
</tr>
<tr>
<td>H</td>
<td>Normal digging</td>
<td>• Good cycle times</td>
</tr>
<tr>
<td></td>
<td>and loading</td>
<td>• Good fuel economy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Heavy lift mode is available</td>
</tr>
<tr>
<td>G</td>
<td>Light-duty</td>
<td>• Maximum fuel efficiency</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Heavy lift mode is available</td>
</tr>
</tbody>
</table>

Heavy lift mode
Gives you approximately 10% more lifting force on the boom when you need it for handling rock or lifting large boulders.

Two settings for the boom
Smooth mode provides easy operation and longer component life for gathering blasted rock or scraping down 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.

Hydraulics
Unique three-pump system assures smooth compound movement of the work equipment. OLGS controls all three pumps for efficient engine power use. This system also reduces hydraulic loss during operation.
Working Environment

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

Operator’s Cab

Safety Features

- Pump/engine room partition prevents oil from spraying on the engine if a hydraulic hose should burst.
- Thermal guards are placed around high-temperature parts of the engine and accessory drive.
- Timer-off step light automatically provides light for one minute to allow the operator to get off the machine safely.
- Interconnected horn and flashing light give visual and audible notice of the excavator’s operation when activated.

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.

The multi-position diagnostic monitor is easily reached and can be rotated to remove glare. Plus, the inclined dashboard makes the switches and fuel control dials easier to view and use.

Cab mounts
The cab rests on viscous damping mounts to reduce vibration and noise from the machine body. Operator fatigue is reduced.

Noise
The noise levels at the operator’s ear have been decreased by improving the cab mounts.

Cab mounts

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

Operator's Cab

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.

The multi-position diagnostic monitor is easily reached and can be rotated to remove glare. Plus, the inclined dashboard makes the switches and fuel control dials easier to view and use.

Cab mounts
The cab rests on viscous damping mounts to reduce vibration and noise from the machine body. Operator fatigue is reduced.

Noise
The noise levels at the operator’s ear have been decreased by improving the cab mounts.

Safety Features

- Pump/engine room partition prevents oil from spraying on the engine if a hydraulic hose should burst.
- Thermal guards are placed around high-temperature parts of the engine and accessory drive.
- Timer-off step light automatically provides light for one minute to allow the operator to get off the machine safely.
- Interconnected horn and flashing light give visual and audible notice of the excavator’s operation when activated.
ENGINE
Model: Komatsu SAA6D170E-2
Type: 4-cycle, water-cooled, direct-injection Turbocharged and air-to-air aftercooled
No. of cylinders: 6
Bore: 6.69” (170 mm)
Stroke: 6.69” (170 mm)
Piston displacement: 1,413 in³ (23.15 ltr)
Flywheel horsepower: 611 hp (456 kW) at 1800 rpm (SAE J1349)

HYDRAULIC SYSTEM
Type: Open-center load-sensing system
No. of selectable working modes: 3
Main pump:
  Type: Variable-capacity piston pumps
  Pumps for: Boom, arm, bucket, swing, and travel circuits
Maximum flow:
  2 x 130.5 gpm (2 x 494 ltr)
  1 x 158.5 gpm (1 x 600 ltr)
Sub-pump for control circuit:
  Gear pump
Hydraulic motors:
  Travel: 2 x Axial piston motor with parking brake
  Swing: 2 x Axial piston motor with swing holding brake
Relief valve setting:
  Implement circuits:
    up to: 4,550 psi (320 kg/cm²)
  Travel circuit: 4,980 psi (350 kg/cm²)
  Swing circuit: 3,980 psi (275 kg/cm²)
  Pilot circuit: 430 psi (30 kg/cm²)
Hydraulic cylinders:
  Number of cylinders – bore x stroke:
    Boom: 2–8.9” x 94.1” (225 mm x 2390 mm)
    Arm: 1–9.8” x 95.9” (250 mm x 2435 mm)
    Bucket:
      Std: 2–6.3” x 71.8” (160 mm x 1825 mm)
      LC: 2–6.3” x 71.8” (160 mm x 1825 mm)
      SP: 2–6.3” x 76.8” (160 mm x 1950 mm)

SWING SYSTEM
Driven by: Hydraulic motor
Swing reduction: Planetary gear
Swing circle lubrication: Grease-bathed
Swing lock: Oil disc brake
Swing speed: 5.8 rpm
Swing torque: 40471 kg•m (292,635 ft. lbs.)

UNDERCARRIAGE
Center frame: H-leg frame
Track frame: Box-section
Seal of track: Sealed track
Track adjuster: Hydraulic
No. of shoes:
  Std, SP: 48 each side
  LC: 55 each side
No. of carrier rollers: 3 each side
No. of track rollers:
  Std, SP: 8 each side
  LC: 10 each side

COOLANT AND LUBRICANT CAPACITY (refilling)
Fuel tank: 359.3 U.S. gal (1360 ltr)
Radiator: 37.3 U.S. gal (140 ltr)
Engine: 13.5 U.S. gal (51 ltr)
Final drive, each side: 5.7 U.S. gal (22 ltr)
Swing drive: 5.7 U.S. gal (22 ltr)
Hydraulic tank: 177.0 U.S. gal (670 ltr)

OPERATING WEIGHT (approximate)
PC1100-6/LC-6: Operating weight, including 29’10” 9100 mm boom, 11’2” 3400 mm arm, SAE heaped 6.5 yd³ 5.0 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

<table>
<thead>
<tr>
<th>Shoes</th>
<th>PC1100-6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operating Weight</td>
</tr>
<tr>
<td>28” 700 mm</td>
<td>227,100 lb</td>
</tr>
<tr>
<td>39.4” 1000 mm</td>
<td>232,170 lb</td>
</tr>
<tr>
<td>39.4” 1000 mm</td>
<td>244,710 lb</td>
</tr>
<tr>
<td>44.4” 1200 mm</td>
<td>248,060 lb</td>
</tr>
<tr>
<td>28” 700 mm</td>
<td>229,280 lb</td>
</tr>
</tbody>
</table>

DRIVES AND BRAKES
Steering control: 2 levers with pedals
Drive method: Fully hydrostatic
Travel motor: Axial piston motor, in-shoe design
Reduction system: Planetary double reduction
Maximum drawbar pull: 154,320 lb (70000 kg)
Grading ability: 70%
Maximum travel speed:
  Low: 1.3 mph (2.1 km/h)
  High: 2.0 mph (3.2 km/h)
Service brake: Hydraulic lock
Parking brake: Oil disc brake
**SPECIFICATIONS**

**ENGINE**
- Model: Komatsu SAA6D170E-2
- Type: 4-cylinder, water-cooled, direct-injection
- Aspiration: Turbocharged and air-to-air aftercooled
- Bore: 6.69 mm
- Stroke: 6.69 mm
- Piston displacement: 1,413 in^3\(=23.15\) ltr
- Flywheel horsepower: 611 hp at 1800 rpm (SAE J1349)
- Governor: All speed, electronic

**HYDRAULIC SYSTEM**
- Type: Open-center load-sensing system
- No. of selectable working modes: 3
- Main pump: Variable-capacity piston pumps
- Pumps for: Boom, arm, bucket, swing, and travel circuits
- Maximum flow: 2 x 130.5 gpm \(= 2494\) ltr
- Sub-pump for control circuit: Gear pump
- Hydraulic motors: Axial piston motor, with parking brake
- Steering control: 2 levers with pedals
- Swing: 2 x Axial piston motor

**HYDRAULIC CYLINDERS**
- Number of cylinders: ~
- Bore x stroke: ~

**Aspiration**
- Turbocharged and air-to-air aftercooled

**Flywheel horsepower**
- 611 hp at 1800 rpm

**Hydraulic motors**
- No. of cylinders: 6
- No. of selectable working modes: 3
- Swing: 2 x Axial piston motor

**Swing**
- Swing circuit: Grease-bathed
- Swing drive: Hydraulic motor

**Swing circle lubrication**
- Grease-bathed

**Parking brake**
- Oil disc brake

**Service brake**
- Hydraulic lock

**Drives and Brakes**
- Steering control: 2 levers with pedals
- Drive method: Fully hydrostatic
- Travel motor: Axial piston motor
- In-shoe design
- Reduction system: Planetary double reduction
- Maximum drawbar pull: 154,320 lb
- Gravability: 70%
- Maximum travel speed: Low: ~mph; High: ~mph

**Operative Range**
- Mini Operating Range: 21'10"; Max. digging depth: 25'6"
- Max. dumping height: 31'1"
- Max. digging height: 44'10"; Min. swing radius: 22'45"
- Bucket digging force: 48,800 kg
- Arm crow force: 46,100 kg

**Working Range**
- Total Operating Range: 31'0"; Max. vertical wall digging depth: 21'10"
- Max. vertical wall digging depth: 21'10"
- Max. digging depth: 25'10"

**OPERATING WEIGHT**
- Operating weight excluding fuel tank: 232,170 lb
- Operating weight including fuel tank: 236,320 lb

**HYDRAULIC EXCAVATOR**
- B: Max. dumping height
- C: Max. digging depth
- D: Max. digging height
- E: Min. swing radius
- F: Max. drawing depth of cut for 5' level
- G: Max. digging depth
- H: Min. swing radius
- A: Overall Height
- W: Working Range
- B: Max. mining height
- C: Max. drawing depth
- D: Max. drawing depth
- E: Min. swing radius
- F: Max. drawing depth
- G: Max. drawing depth
- H: Min. swing radius
- I: Max. mining depth
- J: Max. mining depth
- K: Max. mining depth
- L: Max. mining depth
- M: Max. mining depth
- N: Max. mining depth
- O: Max. mining depth
- P: Max. mining depth
- Q: Max. mining depth
- R: Max. mining depth
- S: Max. mining depth
- T: Max. mining depth
- U: Max. mining depth
- V: Max. mining depth
- W: Max. mining depth
- X: Max. mining depth
- Y: Max. mining depth
- Z: Max. mining depth

**DIMENSIONS**
- B: Overall Height
- C: Max. drawing depth
- D: Max. drawing depth
- E: Min. swing radius
- F: Max. drawing depth
- G: Max. drawing depth
- H: Min. swing radius
- A: Overall Height
- W: Working Range
- B: Max. mining height
- C: Max. drawing depth
- D: Max. drawing depth
- E: Min. swing radius
- F: Max. drawing depth
- G: Max. drawing depth
- H: Min. swing radius
- I: Max. mining depth
- J: Max. mining depth
- K: Max. mining depth
- L: Max. mining depth
- M: Max. mining depth
- N: Max. mining depth
- P: Max. mining depth
- Q: Max. mining depth
- R: Max. mining depth
- S: Max. mining depth
- T: Max. mining depth
- U: Max. mining depth
- V: Max. mining depth
- W: Max. mining depth
- X: Max. mining depth
- Y: Max. mining depth
- Z: Max. mining depth
**PC1100LC-6**

**Equipment:**
- **Arm:** 11’3" 3.4 m
- **Boom:** 29’10" 9.1 m
- **Bucket:** 6.5 yd³ 5.0 m³ with heavy lift on

**A:** Reach from swing center
**B:** Bucket hook height
**C:** Lifting capacity
**D:** Rating over front
**E:** Rating at maximum reach

| B | A | 19’6 | 20’6 | 21’7 | 25’9 | 30’10 | 35’10 | 40’12.2 | MAX | 30’7.6 | 20’6.1 | 25’9.1 | 30’10.7 | 40’12.2 | MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14’ | 4.6 m | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 15’ | 5’ | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 16’ | 5’ | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 17’ | 5’ | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 0’ | 14’ | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J109. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*

**PC1100LC-6 Long Arm**

**Equipment:**
- **Arm:** 10’6" 3.2 m
- **Boom:** 29’10" 9.1 m
- **Bucket:** 4.5 yd³ 3.4 m with heavy lift on

**A:** Reach from swing center
**B:** Bucket hook height
**C:** Lifting capacity
**D:** Rating over front
**E:** Rating at maximum reach

| B | A | 19’6 | 20’6 | 21’7 | 25’9 | 30’10 | 35’10 | 40’12.2 | MAX | 30’7.6 | 20’6.1 | 25’9.1 | 30’10.7 | 40’12.2 | MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14’ | 4.6 m | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 15’ | 5’ | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 16’ | 5’ | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 17’ | 5’ | 15’5,500 | 15’5,500 | 12’6,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 | 15’5,500 |
| 0’ | 14’ | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J109. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*

---

**BACKHOE BUCKET AND ARM COMBINATION**

**BUCKET CAPACITY (HEaped)**

<table>
<thead>
<tr>
<th>SAE, PCSA, CECE m³</th>
<th>Without side cutters or shrouds</th>
<th>With side cutters or shrouds</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.4</td>
<td>3.4</td>
<td>3.9</td>
</tr>
<tr>
<td>5.2</td>
<td>4.0</td>
<td>4.6</td>
</tr>
<tr>
<td>6.5</td>
<td>5.0</td>
<td>5.6</td>
</tr>
</tbody>
</table>

**SIDE CUTTER ARM LENGTH**

- 11’2” 3.4 m
- 14’ 4.3 m
- 18’ 5.4 m

**WEIGHT (with side cutter)**

<table>
<thead>
<tr>
<th>Bucket</th>
<th>Without side cutters or shrouds</th>
<th>With side cutters or shrouds</th>
</tr>
</thead>
<tbody>
<tr>
<td>29’6” 9.4 m</td>
<td>29’6” 9.4 m</td>
<td></td>
</tr>
</tbody>
</table>

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J109. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.*
### PC1100LC-6

**Equipment:**
- **Arm:** 11'2" / 3.4 m
- **Boom:** 29'10" / 9.1 m
- **Bucket:** 8.5 yd³ / 5.0 m³ with heavy lift on

#### Reach from swing center

- **B:** Bucket hook height
- **C:** Lifting capacity
- **R:** Rating over front
- **H:** Rating at maximum reach

#### Specifications

<table>
<thead>
<tr>
<th>Equipment</th>
<th>B</th>
<th>C</th>
<th>R</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Load</strong></td>
<td>12</td>
<td>18</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td><strong>Reach</strong></td>
<td>4.6 m</td>
<td>4.6 m</td>
<td>4.6 m</td>
<td>4.6 m</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
</tr>
<tr>
<td><strong>Load</strong></td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
</tr>
</tbody>
</table>

**Note:** Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

### PC1100LC-6 Long Arm

**Equipment:**
- **Arm:** 16'6" / 5.0 m
- **Boom:** 29'10" / 9.1 m
- **Bucket:** 4.5 yd³ / 3.4 m with heavy lift on

#### Reach from swing center

- **B:** Bucket hook height
- **C:** Lifting capacity
- **R:** Rating over front
- **H:** Rating at maximum reach

#### Specifications

<table>
<thead>
<tr>
<th>Equipment</th>
<th>B</th>
<th>C</th>
<th>R</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Load</strong></td>
<td>9.5</td>
<td>9.5</td>
<td>9.5</td>
<td>9.5</td>
</tr>
<tr>
<td><strong>Reach</strong></td>
<td>6.1 m</td>
<td>6.7 m</td>
<td>8.0 m</td>
<td>10.7 m</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
</tr>
<tr>
<td><strong>Load</strong></td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
</tr>
</tbody>
</table>

**Note:** Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

### PC1100LC-6 Semi-Long Arm

**Equipment:**
- **Arm:** 14'9" / 4.5 m
- **Boom:** 29'10" / 9.1 m
- **Bucket:** 5.25 yd³ / 4.0 m³ with heavy lift on

#### Reach from swing center

- **B:** Bucket hook height
- **C:** Lifting capacity
- **R:** Rating over front
- **H:** Rating at maximum reach

#### Specifications

<table>
<thead>
<tr>
<th>Equipment</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>R</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Load</strong></td>
<td>12</td>
<td>18</td>
<td>24</td>
<td>30</td>
<td>36</td>
</tr>
<tr>
<td><strong>Reach</strong></td>
<td>4.6 m</td>
<td>4.6 m</td>
<td>4.6 m</td>
<td>4.6 m</td>
<td>4.6 m</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
<td>14,400</td>
</tr>
<tr>
<td><strong>Load</strong></td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
<td>9.1 m</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
<td>13,500</td>
</tr>
</tbody>
</table>

**Note:** Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

### Backhoe Bucket and Arm Combination

**BUCKET CAPACITY (HAPPED)**

<table>
<thead>
<tr>
<th><strong>SAE PCSA</strong></th>
<th><strong>CECE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>yd³</td>
<td>m³</td>
</tr>
<tr>
<td>4.4</td>
<td>3.4</td>
</tr>
<tr>
<td>5.2</td>
<td>4.0</td>
</tr>
<tr>
<td>6.6</td>
<td>5.0</td>
</tr>
</tbody>
</table>

**WIDTH**

<table>
<thead>
<tr>
<th>Without side cutters or shrubs in mm</th>
<th>With side cutters or shrubs in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>155</td>
</tr>
<tr>
<td>87.7</td>
<td>195</td>
</tr>
</tbody>
</table>

**ARM LENGTH**

<table>
<thead>
<tr>
<th>11'2&quot; 3.4</th>
<th>14'1&quot; 4.3</th>
<th>18' 5.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4</td>
<td>4.3</td>
<td>5.2</td>
</tr>
</tbody>
</table>

**WEIGHT**

<table>
<thead>
<tr>
<th>With side cutters lb</th>
<th>With side shrubs lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,540</td>
<td>7,450</td>
</tr>
<tr>
<td>8,300</td>
<td>8,200</td>
</tr>
<tr>
<td>9,600</td>
<td>9,500</td>
</tr>
</tbody>
</table>

**Note:** Backhoe bucket and arm combination includes hydraulic anchors. Arm length is from swing center to front of bucket.

---

### Equipment Specifications

- **Unit:**
  - **B:** Bucket hook height
  - **C:** Lifting capacity
  - **R:** Rating over front
  - **H:** Rating at maximum reach

- **Rating over side:**
  - **R:** Rating at maximum reach

- **Unit:**
  - **B:** Bucket hook height
  - **C:** Lifting capacity
  - **R:** Rating over front
  - **H:** Rating at maximum reach

**Note:** Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1100-6 LIFTING CAPACITY

Equipment:
- Arm: 11'2" x 3.4 m
- Boom: 29'10" x 8.1 m
- Bucket: 8.5 yd$^3$ 5.0 m$^3$ with heavy lift on

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

PC1100-6 Long Arm

Equipment:
- Arm: 18'6" x 5.6 m
- Boom: 28'10" x 8.1 m
- Bucket: 4.5 yd$^3$ 3.4 m$^3$ with heavy lift on

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

PC1100-6 Semi-Long Arm

Equipment:
- Arm: 14'11" x 4.5 m
- Boom: 29'10" x 8.1 m
- Bucket: 8.25 yd$^3$ 4.0 m$^3$ with heavy lift on

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

PC100SP-6

Equipment:
- Arm: 11'2" x 3.4 m
- Boom: 26'10" x 7.8 m
- Bucket: 8.5 yd$^3$ 6.5 m$^3$

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

Unit:
- lb
- kg

C: Lifting capacity
B: Bucket hook height
A: Reach from swing center
F: Rating over front
E: Rating at maximum reach

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
PC1100-6 Equipment:
- Arm: 11’2” 3.4 m
- Boom: 20’10” 6.3 m
- Bucket: 8.5 yd² 5.0 m²

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1100-6 Long Arm Equipment:
- Arm: 18’6” 5.6 m
- Boom: 24’10” 7.4 m
- Bucket: 4.5 yd² 3.4 m

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1100-6 Semi-Long Arm Equipment:
- Arm: 14’1” 4.3 m
- Boom: 23’10” 7.1 m
- Bucket: 8.25 yd² 4.0 m²

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1100-6 Long Arm Equipment:
- Arm: 18’6” 5.6 m
- Boom: 24’10” 7.4 m
- Bucket: 4.5 yd² 3.4 m

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1005PS-6 Equipment:
- Arm: 11’2” 3.4 m
- Boom: 20’10” 6.3 m
- Bucket: 8.5 yd² 5.0 m²

Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
PC1100-6 Loading Shovel

**ENGINE**

Model: Komatsu SAA6D170E-2
Type: 4-cycle, water-cooled, direct-injection
Aspiration: Turbocharged and air-to-air aftercooled
No. of cylinders: 6
Bore: 6.69" 170 mm
Stroke: 6.69" 170 mm
Piston displacement: 1,413 in³ 23.15 ltr
Flywheel horsepower: 611 hp 456 kW at 1800 rpm (SAE J1349)
Governor: All-speed, electronic

**HYDRAULIC SYSTEM**

Type: Open-center load-sensing system
No. of selectable working modes: 3
Main pump:
  - Type: Variable-capacity piston pumps
  - Pumps for: Boom, arm, bucket, swing, and travel circuits
Maximum flow:
  - 2 x 130.5 gpm 2 x 494 ltr
  - 1 x 158.5 gpm 1 x 600 ltr
Sub-pump for control circuit: Gear pump
Hydraulic motors:
  - Travel: 2 x Axial piston motor with parking brake
  - Swing: 2 x Axial piston motor with swing holding brake
Relief valve setting:
  - Implement circuits: up to 4,550 psi 320 kg/cm²
  - Travel circuit: 4,980 psi 350 kg/cm²
  - Swing circuit: 3,980 psi 275 kg/cm²
  - Pilot circuit: 430 psi 30 kg/cm²
Hydraulic cylinders:
  - Number of cylinders – bore x stroke:
    - Boom: 2—8.9" x 71.2" 225 mm x 1960 mm
    - Arm: 2—7.3" x 69.5" 185 mm x 1765 mm
    - Bucket: 2—7.9" x 60.2" 200 mm x 1530 mm
    - Bucket Dump: 2—5.5" x 17.1" 140 mm x 435 mm

**SWING SYSTEM**

Driven by: Hydraulic motor
Swing reduction: Planetary gear
Swing circle lubrication: Grease-bathed
Swing lock: Oil disc brake
Swing speed: 5.8 rpm
Swing torque: 40471 kg-m 292,635 ft-lbs.

**DRIVES AND BRAKES**

Steering control: 2 levers with pedals
Drive method: Fully hydrostatic
Travel motor: Axial piston motor, in-shoe design
Reduction system: Planetary double reduction
Maximum drawbar pull: 154,320 lb 70000 kg
Gradability: 70%
Maximum travel speed:
  - Low: 1.3 mph 2.1 km/h
  - High: 2.0 mph 3.2 km/h
Service brake: Hydraulic lock
Parking brake: Oil disc brake

**UNDERCARRIAGE**

Center frame: H-leg frame
Track frame: Box-section
Seal of track: Sealed track
Track adjuster: Hydraulic
No. of shoes: 48 each side
No. of carrier rollers: 3 each side
No. of track rollers: 8 each side

**COOLANT AND LUBRICANT CAPACITY (refilling)**

Fuel tank: 359.3 U.S. gal 1360 ltr
Radiator: 37.3 U.S. gal 140 ltr
Engine: 13.5 U.S. gal 51 ltr
Final drive, each side: 5.7 U.S. gal 22 ltr
Swing drive: 5.7 U.S. gal 22 ltr
Hydraulic tank: 177.0 U.S. gal 670 ltr

**OPERATING WEIGHT (approximate)**

PC1100-6 Loading Shovel: Operating weight, including 17'5" 5300 mm boom, 12'6" 3800 mm arm, 8.5 yd³ 6.5 m³ bottom dump bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

<table>
<thead>
<tr>
<th>Shoe Size</th>
<th>Double-Grouser</th>
<th>PC1100-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>28&quot; 700 mm</td>
<td>238,100 lb 108000 kg</td>
<td>20.1 psi 1.41 kg/cm²</td>
</tr>
</tbody>
</table>
PC1100-6 Loading Shovel

**SPECIFICATIONS**

**ENGINE**
Model: Komatsu SAA6D170E-2
Type: 4-cylinder, water-cooled, direct-injection
Aspiration: Turbocharged and air-to-air aftercooled
No. of cylinders: 6
Bore: 6.69" (170 mm)
Stroke: 6.69" (170 mm)
Piston displacement: 1,413 in³ (23.15 ltr)
Flywheel horsepower: 611 hp at 1800 rpm (SAE J1349)
Governor: All-speed, electronic

**HYDRAULIC SYSTEM**
Type: Open-center load-sensing system
No. of selectable working modes: 3
Main pump: Variable-capacity piston pumps
Pumps for: Boom, arm, bucket, swing, and travel circuits
Maximum flow: 2 x 130.5 gpm (2 x 494 ltr)
Sub-pump for control circuit: Gear pump
Hydraulic motors: Travel, 2 x Axial piston motor with parking brake
Swing, 2 x Axial piston motor with swing holding brake

**UNDERCARRIAGE**
Center frame: H-leg frame
Track frame: Box section
Seal of track: Sealed track
Track adjuster: Hydraulic
No. of shoes: 48 each side
No. of carrier rollers: 8 each side

**COOLANT AND LUBRICANT**
CAPACITY (refilling)
Fuel tank: 359.3 U.S. gal (1360 ltr)
Radiator: 11,900 lb (5400 kg)
Engine: 13.5 U.S. gal (51 ltr)
Final drive, each side: 7.5 U.S. gal (22 ltr)
Swing drive: 5.7 U.S. gal (22 ltr)
Hydraulic tank: 177.0 U.S. gal (670 ltr)

**OPERATING WEIGHT**
(approximate)
PC1100-6 Loading Shovel: Operating weight, including 175" x 5300 mm boom, 126" x 3000 mm arm, 8.5 yd³ (6.5 m³) bottom dump bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

**DRIVES AND BRAKES**
Steering control: 2 levers with pedals
Drive method: Fully hydrostatic
Travel motor: Axial piston motor, in-shoe design
Reduction system: Planetary double reduction
Maximum drawbar pull: 154,320 lb (70000 kg)
Graddability: 70%
Maximum travel speed: 1.3 mph (2.1 km/h)
High: 2.0 mph (3.2 km/h)
Service brake: Hydraulic lock
Parking brake: Oil disc brake

**SWING SYSTEM**
Driven by: Hydraulic motor
Swing reduction: Planetary gear
Swing circle lubrication: Grease-bathed
Swing lock: Oil disc brake
Swing speed: 5.8 rpm

**WORKING RANGE AND BUCKET SELECTION**

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity—heaped</td>
<td>6.5 yd³</td>
<td>6.5 m³</td>
</tr>
<tr>
<td>1</td>
<td>6.5 yd³</td>
<td>6.5 m³</td>
</tr>
<tr>
<td>2</td>
<td>9.2 yd³</td>
<td>7.0 m³</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Type of bucket</th>
<th>Bottom dump</th>
<th>Bottom dump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity—heaped</td>
<td>6.5 yd³</td>
<td>6.5 m³</td>
</tr>
<tr>
<td>1</td>
<td>6.5 yd³</td>
<td>6.5 m³</td>
</tr>
<tr>
<td>2</td>
<td>9.2 yd³</td>
<td>7.0 m³</td>
</tr>
</tbody>
</table>

- **Swing System Units:** 8 ft 8 in
- **Swing Drive:** H-grouser
- **Swing Reversing:** Double-Grouser

---

**Swing System**

- **Swing System Units:** 8 ft 8 in
- **Swing Drive:** H-grouser
- **Swing Reversing:** Double-Grouser

---

**Swing System**

- **Swing System Units:** 8 ft 8 in
- **Swing Drive:** H-grouser
- **Swing Reversing:** Double-Grouser

---

**Swing System**

- **Swing System Units:** 8 ft 8 in
- **Swing Drive:** H-grouser
- **Swing Reversing:** Double-Grouser

---

**Swing System**

- **Swing System Units:** 8 ft 8 in
- **Swing Drive:** H-grouser
- **Swing Reversing:** Double-Grouser
STANDARD EQUIPMENT

Engine and its related items:
- Air cleaner, double element dry
- Cooling fan, with fan guard
- Engine, Komatsu SAA6D170E-2

Electrical system:
- Alternator, 90 Amp, 24V
- Batteries, 2 x 12V, 200 Ah
- Starting motor, 11 kW x 2
- Working light, (2 boom, 1 RH)
- Timer-off step light

Undercarriage:
- PC1100-6, PC1100SP-6, 28”x700 mm double grousers rolling planes
- PC1100LC-6, 39.4”x1000 mm double grousers shoes
- PC1100-6, 8-track/3 carrier rollers (each side)
- PC1100LC-6, 10-track/3 carrier rollers (each side)
- PC1100SP-6, 8-track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

Guards and covers:
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition cover
- Rotating frame undercover

Operator environment:
- Air conditioner with defroster
- Viscous mount, all weather sound suppression with tinted safety glass windows, pull-up front window with lock device, roof window, lockable door, two intermittent window wipers and washer, floor mat, cigarette lighter, ashtray, heater with defroster, storage box, hot/cold box, window lattice (right), and antenna
- Inclined dashboard
- Handrails for machine cab
- Instrument panel (angle adjustable) with electric display/monitor system with electrically-controlled throttle lever, electric service meter, gauges (coolant temp and fuel level), caution lights (electric charge, engine, oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check light (cooler, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Rearview mirrors, RH and LH
- Seat, fully adjustable with suspension

Hydraulic controls:
- Fully hydraulic, with Electronic Open Center Load Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- 1 gear pump for control circuit
- 2 axial piston motor for swing with single stage relief valve
- 1 axial piston motor per track for travel with counter balance valve
- 3 variable capacity piston pump
- 3 control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPP system
- Oil cooler
- In-line filter

Drive and brake system:
- Brakes, hydraulic lock travel brakes, oil disc parking, and swing holding brake
- Hydrostatic, 2 travel speed system with planetary triple reduction final drive

Other standard equipment:
- Automatic swing holding brake
- Corrosion resister
- Counterweight, 36,500 lb 17500 kg
- Horn, air
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Remote greasing for radiator fan drive
- Travel alarm
- Wide catwalk and large handrails
- Vandalism protection locks

OPTIONAL EQUIPMENT

- Arms
  - 11’2” 3400 mm arm assembly
  - 11’2” 3400 mm SP arm assembly (std only)
  - 11’2” 3400 mm HD arm assembly (std only)
  - 14’9” 4500 mm arm assembly
  - 18’6” 5600 mm arm assembly (std only)
- Boom
  - 29’10” 9100 mm
  - 29’9” 7800 mm SP boom
- Cab front full guard
- Grease gun, air pump
- Head guard (FOG)
- Revolving frame undercover (HD)
- Seat belt
- Shoes
  - 40” 1000 mm double grousers
  - 44” 1200 mm double grousers (LC-6 only)
- Track roller guards (full length)
- Track frame undercover
- Working lights, (2 on cab)

TRANSPORTATION GUIDE

Posture for transportation (length X height X width) (1/2) Four units for transportation (PC1100-6 STD spec.)

(1) Work equipment assembly 27.1 U.S. ton 24.6t

(2) Upper structure 34.1 U.S. ton 30.9t

(3) Undercarriage 33.6 U.S. ton 30.5t

(4) Others 19.6 U.S. ton 17.8t

Counterweight, etc.
STANDARD EQUIPMENT

Engine and its related items:
- Air cleaner, double element dry
- Cooling fan, with fan guard
- Engine, Komatsu SAA6D170E-2

Electrical system:
- Alternator, 90 Amp, 24V
- Batteries, 2 x 12V, 200 Ah
- Starting motor, 11 kW x 2
- Working light, (2 boom, 1 RH)
- Timer-off step light

Undercarriage:
- PC100-6, PC1100SP-6, 28” 700 mm double grouser shoes
- PC100LC-6, 10-track/3 carrier rollers (each side)
- PC100-6, 8-track/3 carrier rollers (each side)
- PC1100SP-6, 8-track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

Guards and covers:
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition cover
- Revolving frame undercover

Operator environment:
- Air conditioner with defroster
- Viscous mount, all weather sound suppression with tinted safety glass windows, pull-up front window with lock device, roof window, lockable door, two intermittent window wipers and washer, floormat, cigarette lighter, ashtray, heater with defroster, storage box, hot/cool box, window lattice (right), and antenna
- Inclined dashboard
- Handrails for machine cab
- Instrument panel (angle adjustable) with electronic display/monitor system with electronically-controlled throttle lever, electric service meter, gauges (coolant temp and fuel level), caution lights (electric charge, engine, oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check light (coolant, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Re-view mirrors, RH and LH
- Seat, fully adjustable with suspension

Hydraulic controls:
- Fully hydraulic, with Electronic Open Center Load Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- 1 gear pump for control circuit
- 2 axial piston motor for swing with single stage relief valve
- 1 axial piston motor per track for travel with counter balance valve
- 3 variable capacity piston pumps
- 3 control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler
- In-line filter

Drive and brake system:
- Brakes, hydraulic lock travel brakes, oil disc parking, and swing holding brake
- Hydrostatic, 2 travel speed system with planetary triple reduction final drive

Other standard equipment:
- Automatic swing holding brake
- Corrosion resister
- Counterweight, 36,500 lb 17,500 kg
- Horn, air
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Remote greasing for radiator fan drive
- Travel alarm
- Wide catwalk and large handrails
- Vandalism protection locks

OPTIONAL EQUIPMENT

- Arms
  - 11” 3400 mm arm assembly
  - 11” 3400 mm SP arm assembly (std only)
  - 11” 3400 mm HD arm assembly (std only)
  - 14” 4500 mm arm assembly
  - 14” 4500 mm HD arm assembly (std only)
  - 18” 5600 mm arm assembly (std only)
- Boom
  - 25” 9100 mm
  - 25” 7,800 mm SP boom

- Cab front full guard
- Grease gun, air pump
- Head guard (FOG)
- Revolving frame undercover (HD)
- Seat belt
- Shoes
  - 40” 1000 mm double grouser (LC-6 only)
- Track roller guards (full length)
- Track frame undercover
- Working lights, (2 on cab)

TRANSPORTATION GUIDE

Posture for transportation (length X height X width) (1/2)

<table>
<thead>
<tr>
<th>Model</th>
<th>Length X Height X Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FWP 01807</td>
<td>31’1” x 5’7” x 3’9”</td>
<td>2.6 U.S. ton</td>
</tr>
<tr>
<td>FWP 01808</td>
<td>34’1” x 8’1” x 9’4”</td>
<td>24.6 U.S. ton</td>
</tr>
<tr>
<td>FWP 01809</td>
<td>32’7” x 8’1” x 9’4”</td>
<td>21.6 U.S. ton</td>
</tr>
<tr>
<td>FWP 01810</td>
<td>29’1” x 6’3” x 9’4”</td>
<td>27.1 U.S. ton</td>
</tr>
<tr>
<td>FWP 01811</td>
<td>33’0” x 8’1” x 9’4”</td>
<td>33.6 U.S. ton</td>
</tr>
</tbody>
</table>

Four units for transportation (PC1100-6 STD spec.)
PC1100-6 SERIES
HYDRAULIC EXCAVATOR AND SHOVEL

NET HORSEPOWER
611 hp 456 kW

OPERATING WEIGHT
227,100 - 248,060 lb
103000 - 112500 kg

Materials and specifications are subject to change without notice

www.KomatsuAmerica.com