

# KOMATSU®

## PC600/600LC-8E0 BACKHOE PC600/600LC-8E0 LOADING SHOVEL

ecot3

### HORSEPOWER

Gross:323 kW 433 HP @ 1800 rpm

Net:320 kW 429 HP @ 1800 rpm

### OPERATING WEIGHT

Backhoe:59200-61900 kg

130,510-136,460 lb

Loading shovel:63200-64200 kg

139,330-141,540 lb

PC  
600



Photo may include optional equipment.

HYDRAULIC EXCAVATOR

# WALK-AROUND

## Productivity Features

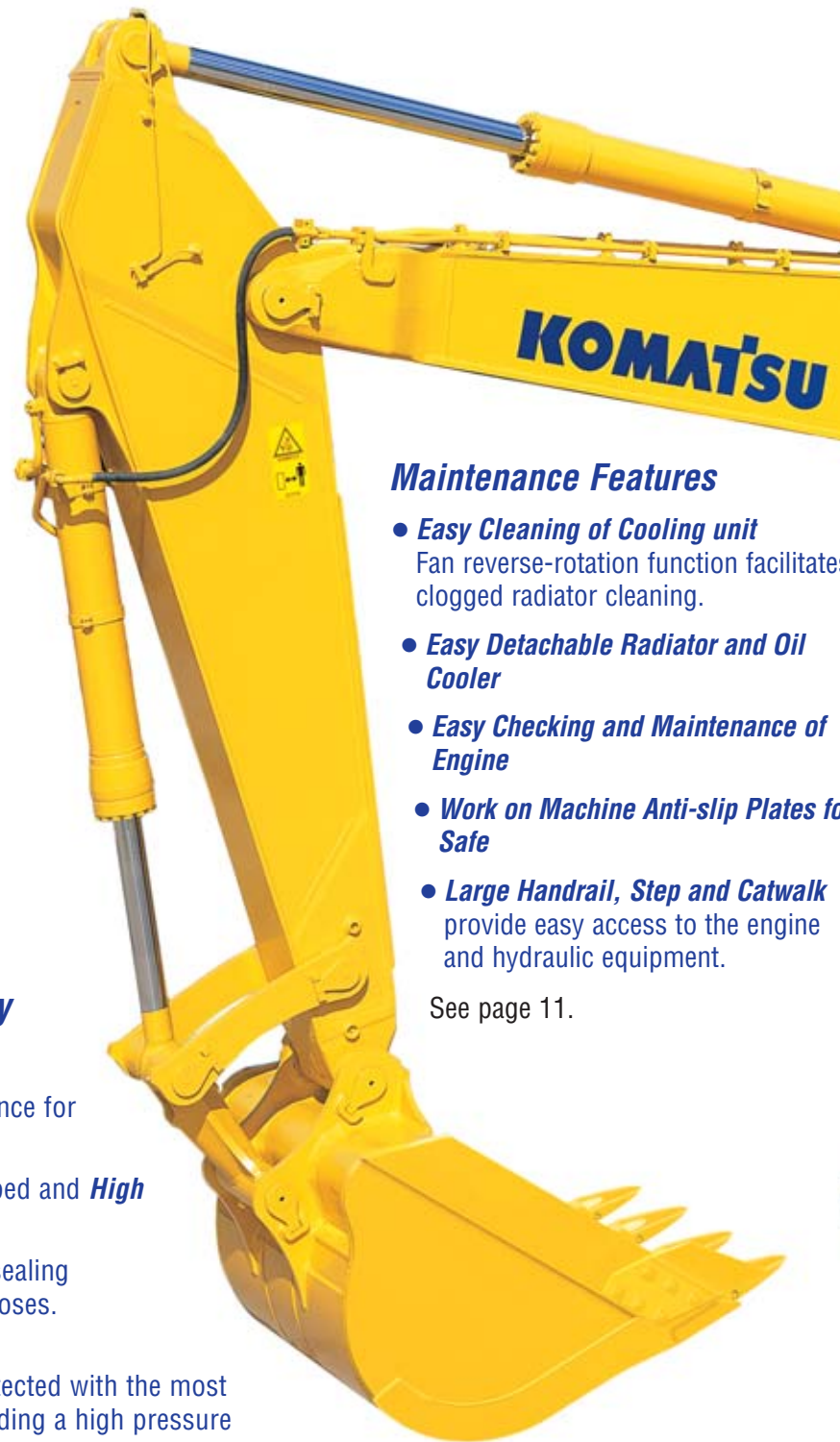
- **High Work Equipment Speed**  
Increased arm dumping speed and arm speed of compound operation by arm regeneration circuit realize efficient loading operation.
- **Lifting Mode**  
The lifting mode increases the lifting force by 17%.
- **Large Digging Force**  
Pressing the Power Max function button temporarily increases the digging force 8%.
- **Two-mode Setting for Boom**  
Switch selection allows either powerful digging or smooth boom operation.
- **Large Drawbar Pull and Steering Force**  
provide excellent mobility.

See page 5.

## Excellent Reliability and Durability

- **Strengthened Boom and Arm**
- **KMAX Bucket** offers superior wear-resistance for specific use in quarry.
- **Fuel Pre-filter** with water separator equipped and **High Efficiency Fuel Filter** 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.
- **Highly Reliable Electronic Devices**  
Exclusively designed electronic devices have passed severe testing.
  - Controller • Sensors • Connectors
  - Heat resistant wiring

See pages 6, 7.



## Maintenance Features

- **Easy Cleaning of Cooling unit**  
Fan reverse-rotation function facilitates clogged radiator cleaning.
- **Easy Detachable Radiator and Oil Cooler**
- **Easy Checking and Maintenance of Engine**
- **Work on Machine Anti-slip Plates for Safe**
- **Large Handrail, Step and Catwalk**  
provide easy access to the engine and hydraulic equipment.

See page 11.

## Ecology and Economy Features

- **Low Emission Engine**  
A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 provides **320 kW** 429 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
  - Glasswool-furnished low-noise muffler and noise reducing cover around the 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.



Photo may include optional equipment.

## 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 optional 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.

**HORSEPOWER**  
Gross:323 kW 433 HP @ 1800 rpm  
Net:320 kW 429 HP @ 1800 rpm

**OPERATING WEIGHT**  
**Backhoe**  
59200 – 61900 kg  
130,510 – 136,460 lb  
**Loading shovel**  
63200 – 64200 kg  
139,330 – 141,540 lb

# 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.

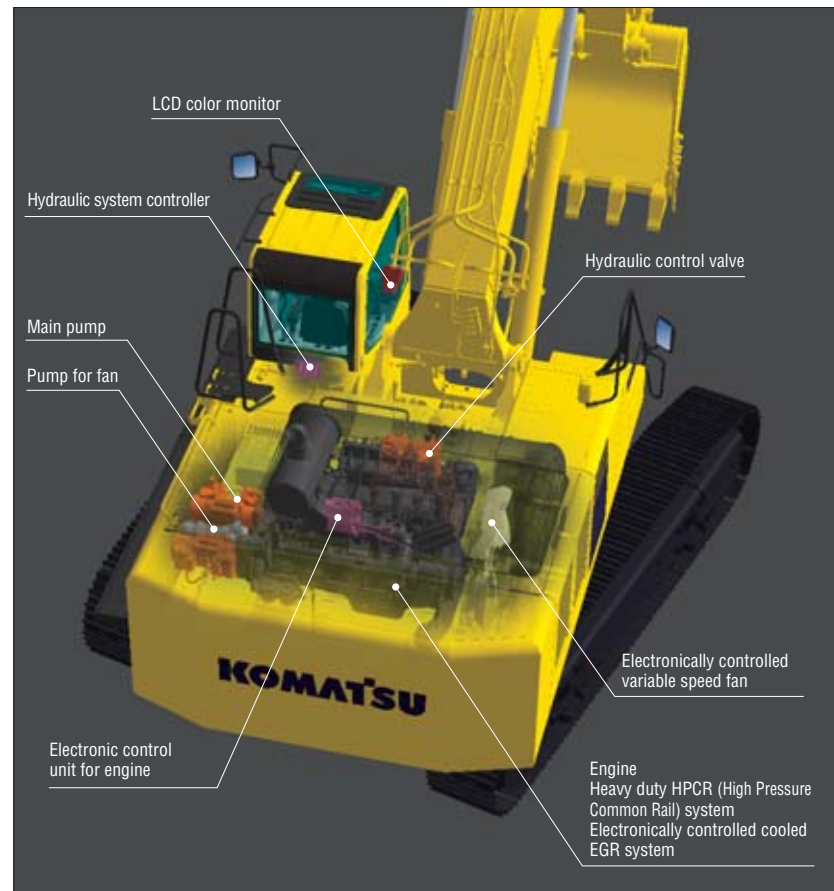
### Low Emission Engine

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.



### Low 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 CO<sub>2</sub> emission and fuel consumption.



Eco-gauge

### 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

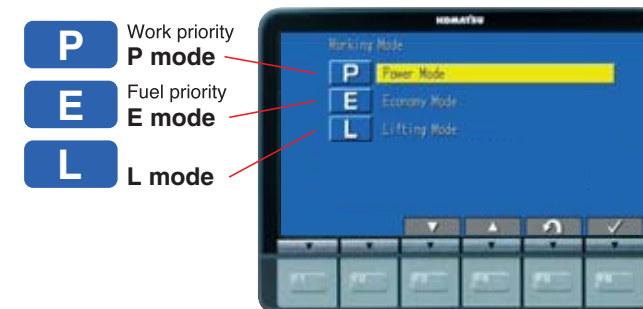
Auto deceleration system is equipped to reduce fuel consumption and operating noise. Also, engine idling speed can be set at a lower speed on monitor with auto idling system.

### 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.



You can select Power or Economy modes using a one-touch operation on the monitor panel depending on workloads.

### Lifting Mode

Gives 17% more lifting force when needed for handling rock or heavy lifting applications.

### 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.

### Large Digging Force

With the addition of one-touch Power Max. function digging force is further increased. (8 seconds of operation)

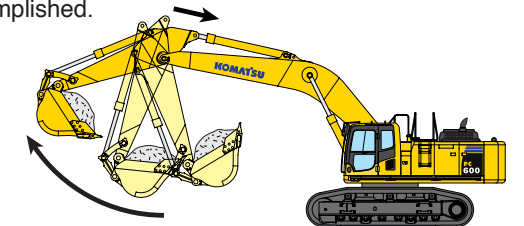
**Maximum arm crowd force (ISO):**  
228 kN (23.3 tonf) → **246 kN (25.1 tonf)** (with Power Max.) **8% UP**

**Maximum bucket digging force (ISO):**  
294 kN (30.0 tonf) → **317 kN (32.3 tonf)** (with Power Max.) **8% UP**

\*Measured with Power Max function, 3500 mm 11'6" arm and ISO rating

### Work Equipment Speed Increased

Work equipment speed and arm speed of compound operation becomes greater with arm quick return circuit and arm regeneration circuit. Quick loading work is now accomplished.



### 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.

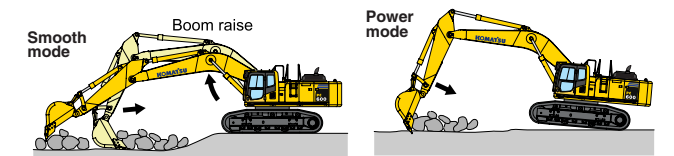
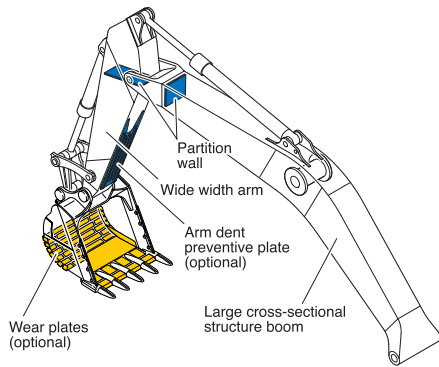


Photo may include optional equipment.

# RELIABILITY FEATURES

## Strengthened Boom and Arm (optional)

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 bending and torsional stress.



## 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 operation.

## Frame Structure

The revolving frame mount and center frame mount on the swing circle are non-welding structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

## 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

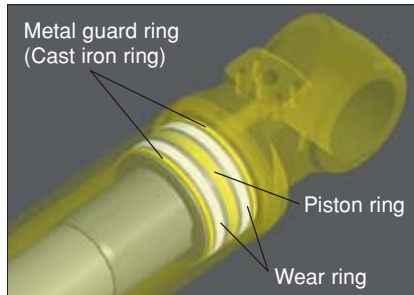
The PC600-8E0 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.



In-line filter

## Metal Guard Rings

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



## Heat-resistant Wiring

Heat-resistant wiring is used for the engine electric circuit and other major component circuit.

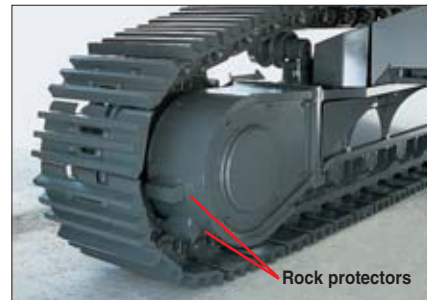
## Circuit Breaker

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



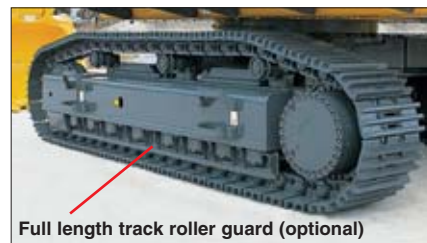
## Sturdy Undercarriage

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



Rock protectors

Sturdy guards shield the travel motors and pipings against damage from rocks. (Rock protectors are optional.)



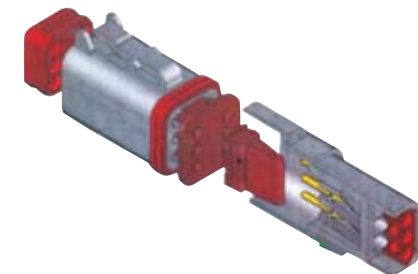
Full length track roller guard (optional)

## Strengthened Revolving Frame Underguard

Guards the machine pipings against being hit by rocks from below and prevents hydraulic components and the engine from being damaged.

## DT-type connectors

DT-type connectors seal tight and have higher reliability.



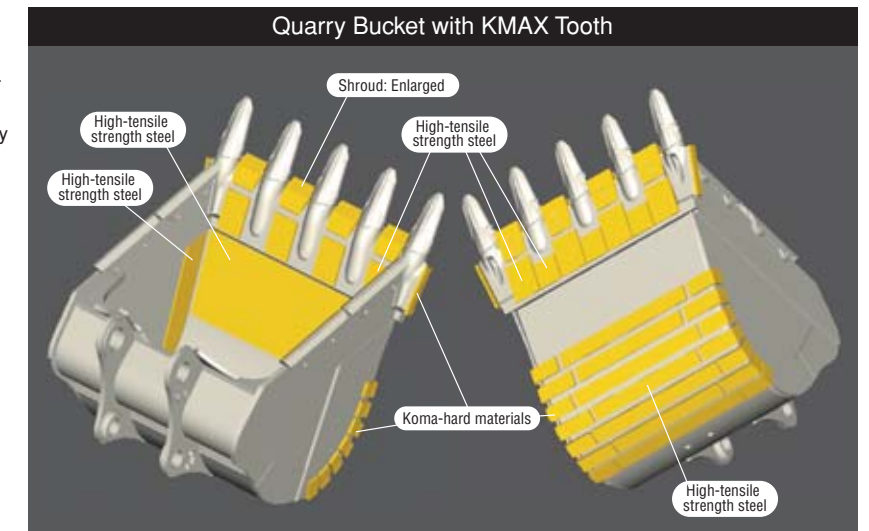
## Strengthened Quarry Bucket Provides Outstanding Wear-resistance (optional)

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 tooth, durability of bucket is drastically enhanced.

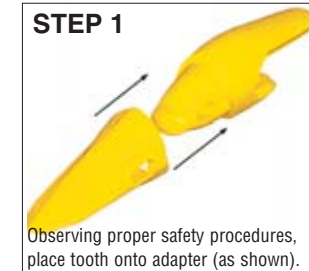
\* Koma-hard materials (KVX materials):  
Komatsu developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180kgf/mm<sup>2</sup> class). Features high wear-resistance and little quality change by the heat generated during rock loading, maintaining the hardness for a long term.

## KMAX Tooth for Quarry Bucket

- 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



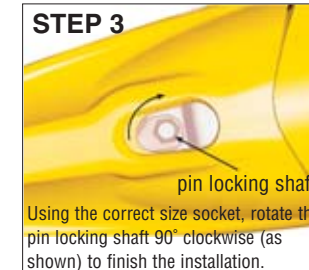
Observing proper safety procedures, place tooth onto adapter (as shown).

### 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.



Photo may include optional equipment.

# WORKING ENVIRONMENT



OPG top guard (optional)

Photo may include optional equipment.

### 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.

### 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.



Seat with headrest reclined full flat

### 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.

### Multi-position Controls

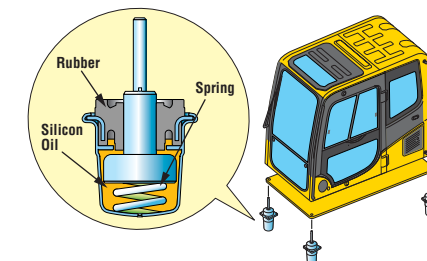
The multi-position, PPC (proportional pressure control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and control levers to move together or independently, allowing the operator to position the controls for maximum productivity and comfort.



Seat sliding amount: 340 mm 13.4"

### Low Vibration with Cab Damper Mounting

PC600-8E0 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.



### Cab Equipments



Skylight



Sliding Window and Large Side Mirror



Defroster (optional)



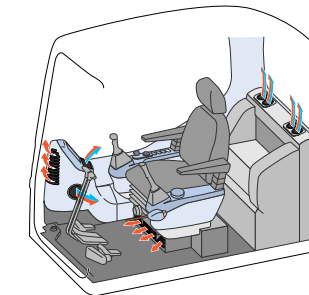
Cab Frame Mounted Wiper



Bottle Holder and Magazine Rack

### 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.



## Safety Features

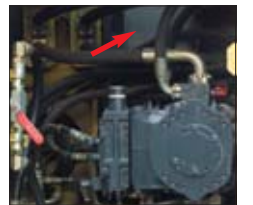
### Step Light with Timer (optional)

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.



### Rear View Monitoring System (optional)

The operator can view the rear of the machine with a color monitor screen.



### OPG top guard (optional)

OPG top guard Level 2 (by ISO 10262) capable with optional bolt-on top guard.

# MAINTENANCE FEATURES

## Large LCD Color Monitor

### 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.



- Indicators**
- 1 Auto-decelerator
  - 2 Working mode
  - 3 Travel speed
  - 4 Engine water temperature gauge
  - 5 Hydraulic oil temperature gauge
  - 6 Fuel gauge
  - 7 Eco-gauge
  - 8 Function switches menu

- Basic operation switches**
- 1 Auto-decelerator (& auto idling)
  - 2 Working mode selector
  - 3 Traveling selector
  - 4 Buzzer cancel
  - 5 Wiper
  - 6 Windshield washer

### Mode Selection

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

Working Mode	Application	Advantage
P (P0,P1)	Power Mode	<ul style="list-style-type: none"> <li>• Maximum production/power</li> <li>• Fast cycle time</li> </ul>
E (E0,E1,E2,E3)	Economy Mode	<ul style="list-style-type: none"> <li>• Good cycle time</li> <li>• Good fuel economy</li> </ul>
L	Lifting Mode	<ul style="list-style-type: none"> <li>• Hydraulic pressure is increased 17%.</li> </ul>

### 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.



### Easy Checking and Maintenance of Engine

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



### Long-life Oil, Filter

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



Hydraulic oil filter (Eco-white element)

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

### Electric Pump, Grease Gun with Indicator (optional)

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



Indicator Grease gun

### Wide Catwalk

Easier, safer operator cab access and maintenance checks.



### Anti-slip Plates

Spiked plates provided on top of the machine cab maintains anti-slip performance for a prolonged period.

### Steps Connected to the Machine Cab

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



### Easy Cleaning of Cooling Unit

Reverse-rotation function of the hydraulic driven fan facilitates cleaning of the cooling unit.



### Easy Detachable Radiator and Oil Cooler

Engine hood opens fully to facilitate removal and installation of the radiator and oil cooler. The hood can be opened vertically by changing the position of the torsion bar.



Photo may include optional equipment.

# SPECIFICATIONS

## ENGINE

Model ..... Komatsu SAA6D140E-5  
 Type ..... Water-cooled, 4-cycle, direct injection  
 Aspiration ..... Turbocharged, aftercooled, cooled EGR  
 Number of cylinders ..... 6  
 Bore ..... **140 mm** 5.51"  
 Stroke ..... **165 mm** 6.50"  
 Piston displacement ..... **15.24 ltr** 930 in<sup>3</sup>  
 Governor ..... All-speed, electronic  
 Horsepower:  
 SAE J1995 ..... Gross **323 kW** 433 HP  
 ISO 9249 / SAE J1349\* ..... Net **320 kW** 429 HP  
 Rated rpm ..... 1800 rpm  
 Fan drive type ..... Hydraulic

\*Net horsepower at the maximum speed of radiator cooling fan is 288 kW 386HP  
 EPA Tier 3 and EU stage 3A emissions certified.

## HYDRAULIC SYSTEM

Type ..... Open-center load-sensing system  
 Number of selectable working modes ..... 3  
 Main pump:  
 Type ..... Variable-capacity piston pumps  
 Pumps for ..... Boom, arm, bucket, swing, and travel circuits  
 Maximum flow:  
 Main ..... **2 x 410 ltr/min** 2 x 108 U.S. gal/min  
 Fan drive pump ..... Variable-capacity piston 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  
 Backhoe ..... **31.9 MPa** 325 kgf/cm<sup>2</sup> 4,620 psi  
 Loading shovel ..... **29.4 MPa** 300 kgf/cm<sup>2</sup> 4,270 psi  
 Travel circuit ..... **34.3 MPa** 350 kgf/cm<sup>2</sup> 4,980 psi  
 Swing circuit ..... **25.5 MPa** 260 kgf/cm<sup>2</sup> 3,700 psi  
 Pilot circuit ..... **2.9 MPa** 30 kgf/cm<sup>2</sup> 430 psi

Hydraulic cylinders:  
 (Number of cylinders—bore x stroke x rod diameter)  
 Boom ..... **2 – 185 mm x 1725 mm x 120 mm** 7.3" x 67.9" x 4.7"  
 Arm  
 Std ..... **1 – 200 mm x 2045 mm x 140 mm** 7.9" x 80.5" x 5.5"  
 SE ..... **1 – 200 mm x 2045 mm x 140 mm** 7.9" x 80.5" x 5.5"  
 Bucket  
 Std ..... **1 – 185 mm x 1425 mm x 130 mm** 7.3" x 56.1" x 5.1"  
 SE ..... **1 – 185 mm x 1610 mm x 130 mm** 7.3" x 63.4" x 5.1"

## DRIVES AND BRAKES

Steering control ..... Two levers with pedals  
 Drive method ..... Hydrostatic  
 Travel motor ..... Axial piston motor, in-shoe design  
 Reduction system ..... Planetary triple reduction  
 Maximum drawbar pull ..... **415kN** 42300 kg 93,250 lb  
 Gradeability ..... 70%  
 Maximum travel speed  
 Low ..... **3.0 km/h** 1.9 mph  
 High ..... **4.9 km/h** 3.0 mph  
 Service brake ..... Hydraulic lock  
 Parking brake ..... Oil disc brake

## SWING SYSTEM

Driven method ..... Hydrostatic  
 Swing reduction ..... Planetary gear  
 Swing circle lubrication ..... Grease-bathed  
 Swing lock ..... Oil disc brake  
 Swing speed ..... 8.3 rpm

## UNDERCARRIAGE

Center frame ..... H-leg frame  
 Track frame ..... Box-section  
 Seal of track ..... Sealed  
 Track adjuster ..... Hydraulic  
 No. of shoes ..... 49 each side (PC600-8E0)  
 52 each side (PC600LC-8E0)  
 No. of carrier rollers ..... 3 each side  
 No. of track rollers ..... 8 each side (PC600-8E0)  
 9 each side (PC600LC-8E0)

## COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank ..... **880 ltr** 232.5 U.S. gal  
 Radiator ..... **58 ltr** 15.3 U.S. gal  
 Engine ..... **40 ltr** 10.6 U.S. gal  
 Final drive, each side ..... **10 ltr** 2.6 U.S. gal  
 Swing drive ..... **2 x 13 ltr** 2 x 3.4 U.S. gal  
 Hydraulic tank ..... **360 ltr** 95.0 U.S. gal

## OPERATING WEIGHT (APPROXIMATE)

**BACKHOE**  
 Operating weight, including **7660 mm** 25'2" boom, **3500 mm** 11'6" arm, SAE heaped **2.7 m<sup>3</sup>** 3.53 yd<sup>3</sup> backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	PC600-8E0		PC600LC-8E0	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Triple grouser 600 mm 24"	<b>59200 kg</b> 130,510 lb	<b>104.9 kPa</b> 1.07 kgf/cm <sup>2</sup> 15.2 psi	<b>60200 kg</b> 132,720 lb	<b>99.0 kPa</b> 1.01 kgf/cm <sup>2</sup> 14.4 psi
<b>750 mm</b> 29.5"	<b>60000 kg</b> 132,280 lb	<b>85.3 kPa</b> 0.87 kgf/cm <sup>2</sup> 12.4 psi	<b>61000 kg</b> 134,480 lb	<b>80.4 kPa</b> 0.82 kgf/cm <sup>2</sup> 11.7 psi
<b>900 mm</b> 35.5"	—	—	<b>61900 kg</b> 136,460 lb	<b>67.7 kPa</b> 0.69 kgf/cm <sup>2</sup> 9.8 psi

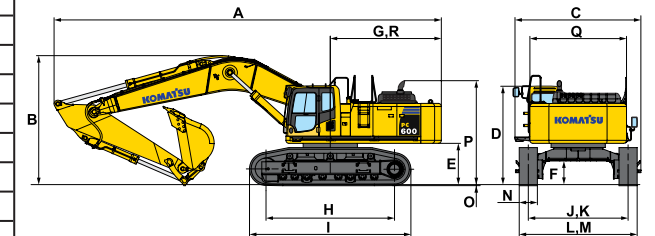
**LOADING SHOVEL**  
 Operating weight, including **4000 mm** 13'1" boom, **3000 mm** 9'10" arm, **4.0 m<sup>3</sup>** 5.2 yd<sup>3</sup> heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.

Shoes	PC600-8E0		PC600LC-8E0	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Double grouser 600 mm 24"	<b>63200 kg</b> 139,330 lb	<b>111.8 kPa</b> 1.14 kgf/cm <sup>2</sup> 16.2 psi	<b>64200 kg</b> 141,540 lb	<b>105.9 kPa</b> 1.08 kgf/cm <sup>2</sup> 15.4 psi

## DIMENSIONS

	7660 mm 25'2"	7660 mm 25'2"	7660 mm 25'2"	7300 mm 23'11"	6600 mm 21'8"
Boom	7660 mm 25'2"	7660 mm 25'2"	7660 mm 25'2"	7300 mm 23'11"	6600 mm 21'8"
Arm	3500 mm 11'6"	4300 mm 14'1"	5200 mm 17'1"	3500 mm 11'6"	2900 mm 9'6"
A Overall length	12960 mm 42'6"	12880 mm 42'3"	12585 mm 41'3"	12590 mm 41'4"	11980 mm 39'4"
B Overall height (to top of boom)	4300 mm 14'1"	4655 mm 15'3"	5235 mm 17'2"	4280 mm 14'1"	4600 mm 15'1"

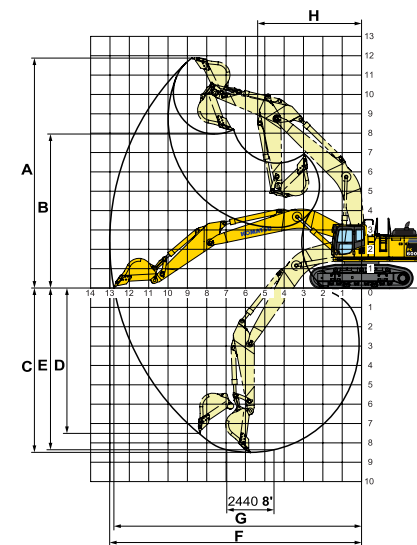
	PC600-8E0	PC600LC-8E0
C Overall width	4210 mm 13'10"	4210 mm 13'10"
D Overall height (to top of cab)	3290 mm 10'10"	3290 mm 10'10"
E Ground clearance, counterweight	1365 mm 4'6"	1365 mm 4'6"
F Ground clearance (minimum)	780 mm 2'7"	780 mm 2'7"
G Tail swing radius	3950 mm 13'0"	3950 mm 13'0"
H Track length on ground	4250 mm 13'11"	4600 mm 15'1"
I Track length	5340 mm 17'6"	5690 mm 18'8"
J Track gauge	2590 mm 8'6"	2590 mm 8'6"
K Track gauge when expanded	3300 mm 10'10"	3300 mm 10'10"
L Width of crawler	3190 mm 10'6"	3190 mm 10'6"
M Width of crawler when expanded	3900 mm 12'10"	3900 mm 12'10"
N Shoe width	600 mm 24"	600 mm 24"
O Grouser height	37 mm 1.5"	37 mm 1.5"
P Machine cab height	3435 mm 11'3"	3435 mm 11'3"
Q Machine cab width	3170 mm 10'5"	3170 mm 10'5"
R Distance, swing center to rear end	3825 mm 12'7"	3825 mm 12'7"



## WORKING RANGE

Unit: mm ft in

	PC600/600LC-8E0				
	STD	HD	SE		
Boom	7660 25'2"	7660 25'2"	7660 25'2"	7300 23'11"	6600 21'8"
Arm	3500 11'6"	4300 14'1"	5200 17'1"	3500 11'6"	2900 9'6"
A Max. digging height	11880 39'0"	12180 40'0"	12560 41'3"	11475 37'8"	11140 36'7"
B Max. dumping height	7960 26'1"	8245 27'1"	8600 28'3"	7650 25'1"	7210 23'8"
C Max. digging depth	8490 27'10"	9275 30'5"	10225 33'7"	8165 26'9"	7060 23'2"
D Max. vertical wall digging depth	7510 24'8"	8375 27'6"	9275 30'5"	6660 21'10"	5630 18'6"
E Max. digging depth of cut for 8' level	8360 27'5"	9175 30'1"	10125 33'3"	8030 26'4"	6910 22'8"
F Max. digging reach	13020 42'9"	13740 45'1"	14630 48'0"	12615 41'5"	11550 37'11"
G Max. digging reach at ground level	12800 42'0"	13555 44'6"	14435 47'4"	12385 40'8"	11300 37'1"
H Min. swing radius	5370 17'7"	5385 17'8"	5510 18'1"	5090 16'8"	4670 15'4"
Bucket digging force (SAE)	264 kN 26900 kgf 59,300 lb		289 kN 29500 kgf 65,040 lb		
Bucket digging force at power max. (SAE)	285 kN 29100 kgf 64,150 lbf		312 kN 31770 kgf 70,040 lb		
Arm crowd force (SAE)	222 kN 22600 kgf 49,820 lb	194 kN 19800 kgf 43,650 lb	170 kN 17300 kgf 38,140 lb	222 kN 22600 kgf 49,820 lb	260 kN 26500 kgf 58,420 lb
Arm crowd force at power max (SAE)	238 kN 24300 kgf 53,570 lb	209 kN 21300 kgf 46,960 lb	182 kN 18600 kgf 41,010 lb	238 kN 24300 kgf 53,570 lb	280 kN 28500 kgf 62,830 lb
Bucket digging force (ISO)	294 kN 30000 kgf 66,140 lb		336 kN 34300 kgf 75,620 lb		
Bucket digging force at power max. (ISO)	317 kN 32300 kgf 71,210 lb		362 kN 36900 kgf 81,350 lb		
Arm crowd force (ISO)	228 kN 23300 kgf 51,370 lb	202 kN 20600 kgf 45,410 lb	176 kN 17900 kgf 39,460 lb	228 kN 23300 kgf 51,370 lb	272 kN 27700 kgf 61,070 lb
Arm crowd force at power max (ISO)	246 kN 25100 kgf 55,340 lb	218 kN 22200 kgf 48,940 lb	189 kN 19300 kgf 42,550 lb	246 kN 25100 kgf 55,340 lb	293 kN 29900 kgf 65,920 lb



## BACKHOE BUCKET AND ARM COMBINATION

BUCKET CAPACITY (HEAPED)				WIDTH				WEIGHT (with side cutters) kg lb	TOOTH	ARM LENGTH m ft in		
SAE, PCSA m <sup>3</sup> yd <sup>3</sup>		CECE m <sup>3</sup> yd <sup>3</sup>		With Side shrouds, Side cutters mm in		Without Side shrouds, Side cutters mm in				3.5 11'6"	4.3 14'1"	5.2 17'1"
use with 7.66m 25'2" boom												
2.0	2.62	1.8	2.35	1430	56.3"	1250	49.2"	2130	4,700	KMAX	○	
2.3	3.01	2.1	2.75	1580	62.2"	1400	55.1"	2260	4,980	KMAX	○	
2.7	3.53	2.4	3.14	1780	70.1"	1600	63.0"	2430	5,360	KMAX	○	
use with 7.3m 23'11" HD boom												
2.8	3.66	2.5	3.27	1920	75.6" *	1920	75.6" *	3100	6,830	KMAX	○	
3.1	4.05	2.8	3.66	2040	80.3" *	2040	80.3" *	3210	7,080	KMAX	○ **	
use with 6.6m 21'8" SE boom												
3.5	4.58	3.1	4.05	2110	83.1" *	2110	83.1" *	3280	7,230	KMAX	○	

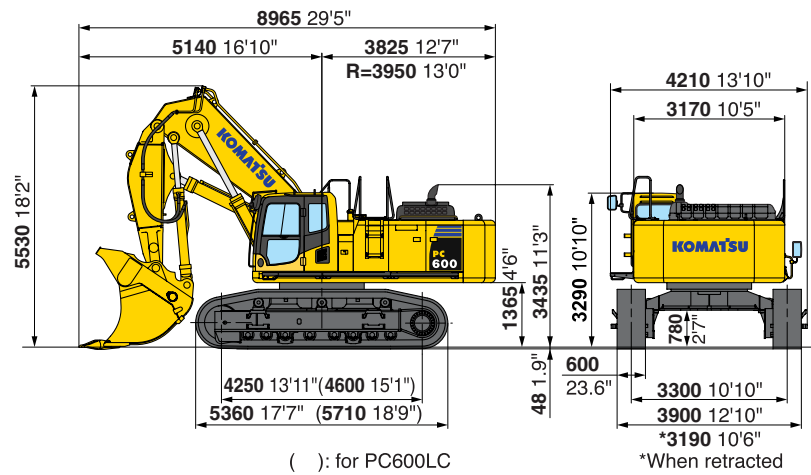
These charts are based on over-side stability with fully loaded bucket at maximum reach.

○ : General purpose use, density up to 1.8 t/m<sup>3</sup> 3,000 lb/yd<sup>3</sup> □ : General purpose use, density up to 1.5 t/m<sup>3</sup> 2,500 lb/yd<sup>3</sup>

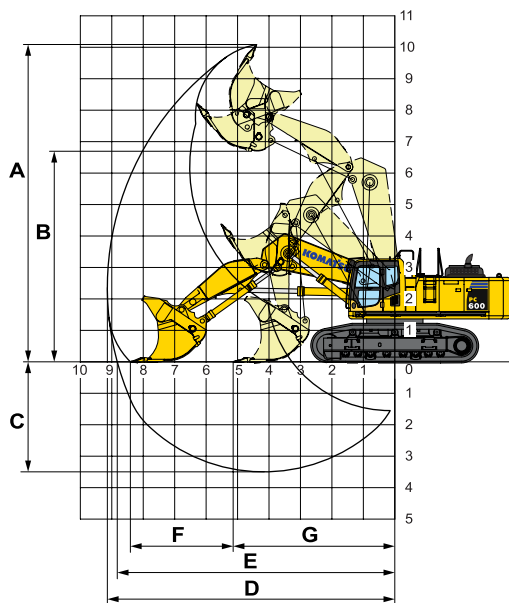
— : Not useable

\* : Bucket lip width \*\* : Available only to LC crawler

## LOADING SHOVEL DIMENSIONS



## LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION



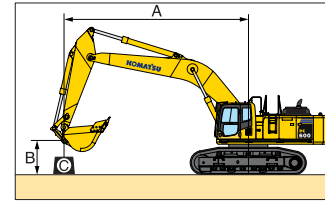
### Working Range

Type of bucket	Bottom dump	
Capacity—heaped	4.0 m <sup>3</sup>	5.2 yd <sup>3</sup>
A Max. cutting height	10090 mm	33'1"
B Max. dumping height	6705 mm	22'0"
C Max. digging depth	3495 mm	11'6"
D Max. digging reach	9190 mm	30'2"
E Max. digging reach at ground level	8850 mm	29'0"
F Level crowding distance	3275 mm	10'9"
G Min. crowd distance	5135 mm	16'10"
Bucket digging force	386 kN	39400 kg 86,860 lb
Arm crowd force	338 kN	34500 kg 76,660 lb

### Bucket Selection

Type of bucket	Bottom dump	
Capacity—heaped	4.0 m <sup>3</sup>	5.2 yd <sup>3</sup>
Width	2090 mm	82.3"
Weight	5700 kg	12,570 lb
No. of bucket teeth	6	
Recommended uses	General-purpose digging and loading	

## LIFTING CAPACITY



### PC600-8E0

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side

⊙ : Rating at maximum reach

Boom : 7.66m 25'2", Arm : 3.5m 11'6", Bucket : 2.7m<sup>3</sup> 3.53cu.yd, Shoes : 600mm 24" triple, L mode: "OFF" unit: kg lb

B	A	MAX		9.1m 29'		7.6m 24'		6.1m 20'		4.6m 15'		3.0m 9'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m 29'		*6950	*6950										
7.6m 24'		*15,300	*15,300	*9400	*9400								
6.1m 20'		*15,100	*15,100	*21,400	*21,400	*10800	*10800						
4.6m 15'		*15,600	14,300	*22,900	20,800	*26,700	*26,700	*15000	*15000	*20100	*20100		
3.0m 9'		*7600	6050	*11250	8950	*13600	12250	*17850	17400				
1.5m 4'		7950	5900	11350	8550	11600	11600	*19650	16450	*14500	*14500		
0m 0'		8100	6000	11050	8300	14850	11150	*20200	15850	*16850	*16850		
-1.5m -4'		8650	6400	10850	8100	14600	10900	*20000	15550	*16550	*16550	*11950	*11950
-3.0m -9'		9700	7200	10850	8100	14550	10850	*18950	15600	*24500	*24500	*14350	*14350
-4.6m -15'		*10150	8900			*12950	11050	*16650	*15900	*21150	*21150	*24800	*24800
-6.1m -20'		*9500	*9500			*8550	*8550	*12800	*12800	*16300	*16300	*24800	*24800

Boom : 7.66m 25'2", Arm : 3.5m 11'6", Bucket : 2.7m<sup>3</sup> 3.53cu.yd, Shoes : 600mm 24" triple, L mode: "ON" unit: kg lb

B	A	MAX		9.1m 29'		7.6m 24'		6.1m 20'		4.6m 15'		3.0m 9'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m 29'		*8550	*8550										
7.6m 24'		*8350	*8350	*11850	10000								
6.1m 20'		*18,600	15,900	*27,000	21,600	*13500	*13500						
4.6m 15'		8600	6500	12250	9450	*15100	13000	*18600	*18600	*24650	*24650		
3.0m 9'		8100	6050	11750	8950	*16000	12250	*22100	17550				
1.5m 4'		7950	5900	11350	8550	*15350	11600	22050	16450	*17400	*17400		
0m 0'		8100	6000	11050	8300	14850	11150	21350	15850	*20150	*20150		
-1.5m -4'		8650	6400	10850	8100	14600	10900	21050	15550	*19950	*19950	*14450	*14450
-3.0m -9'		9700	7200	10850	8100	14550	10850	21150	15600	*30400	25750	*17400	*17400
-4.6m -15'		11900	8900			14800	11050	*20900	15900	*26450	*26000	*29600	*29600
-6.1m -20'		*12350	*12350			*11150	*11150	*16350	*16350	*20650	*20650	*20650	*20650

Boom : 7.3m 23'11", Arm : 3.5m 11'6", Bucket : 2.8m<sup>3</sup> 3.66cu.yd, Shoes : 600mm 24" triple, L mode: "OFF" unit: kg lb

B	A	MAX		9.1m 29'		7.6m 24'		6.1m 20'		4.6m 15'		3.0m 9'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m 29'		*6500	*6500										
7.6m 24'		*14,300	*14,300	*8000	*8000								
6.1m 20'		*6350	*6350	*9550	9400	*10500	*10500						
4.6m 15'		*14,000	*14,000	*21,000	20,800	*23,200	*23,200	*14500	*14500	*19900	*19900		
3.0m 9'		*15,800	13,600	*24,200	19,100	*29,300	26,500	*38,200	*38,200	*53,200	*53,200		
1.5m 4'		*8000	6050	11050	8300	*14500	11450	*19250	16500	*21300	*21300		
0m 0'		8400	6150	10800	8000	14700	11000	*20000	15850	*14600	*14600		
-1.5m -4'		9000	6600	10650	7850	14450	10750	*19850	15500	*21100	*21100	*14000	*14000
-3.0m -9'		10250	7600	10650	7900	*14400	10700	*18750	15550	*24750	*24750	*19650	*19650
-4.6m -15'		*10350	9650			*12100	10900	*16150	*15750	*21000	*21000	*27400	*27400
-6.1m -20'		*9500	*9500			*11450	*11450	*15250	*15250	*21500	*21500	*27400	*27400

\*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.









## 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, 60 amp, 24 V
- Auto decelerator and auto idling system
- Batteries, 170 Ah, 2 x 12 V
- Starting motors, 11kW
- Working lights 2 (boom and right front)

### UNDERCARRIAGE:

- Hydraulic track adjusters (each side)
- Sealed track
- 8 track/3 carrier rollers (each side)
- 9 track/3 carrier rollers (each side)(LC)
- **600 mm** 24" triple grouser
- Variable track gauge

### GUARDS AND COVERS:

- Dust-proof net for radiator and oil cooler
- Pump/engine room partition cover
- Strengthened revolving frame underguard
- Travel motor guards

### OPERATOR ENVIRONMENT:

- Cab with pull-up type front window
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floor mat, cigarette lighter and ashtray
- Multi-function color monitor, fuel control dials, 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 and engine oil level), self-diagnostic system with trouble data memory
- Seat, fully adjustable with suspension
- Rear view mirror (RH)

### 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
- Control valves, 5+4 spools (boom, arm, bucket, swing, and travel)
- Fully hydraulic, with Open-Center Load-Sensing (OLSS) and engine speed sensing (pump and engine mutual control system)
- In-line filter
- Lifting mode system
- Oil cooler
- One axial piston motor per track for travel with counter balance valve
- One gear pump for control circuit
- Power max function
- Two axial piston motors for swing with single-stage relief valve
- 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, **10750 kg** 23,700 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

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>• Alternator, 90 amp, 24 V</li> <li>• Arms (Backhoe):           <ul style="list-style-type: none"> <li>—<b>3500 mm</b> 11'6" arm assembly</li> <li>—<b>3500 mm</b> 11'6" HD arm assembly</li> <li>—<b>4300 mm</b> 14'1" arm assembly</li> <li>—<b>5200 mm</b> 17'1" arm assembly</li> <li>—<b>2900 mm</b> 9'6" SE arm assembly</li> </ul> </li> <li>• Auto air conditioner</li> <li>• Booms (Backhoe):           <ul style="list-style-type: none"> <li>—<b>7660 mm</b> 25'2" boom assembly</li> <li>—<b>7300 mm</b> 23'11" HD boom assembly</li> <li>—<b>6600 mm</b> 21'8" SE boom assembly</li> </ul> </li> <li>• Cab front guard (ISO 10262 level 2)</li> <li>• Cab with fixed front window</li> <li>• Counterweight <b>13500kg</b> 29,800 lb</li> </ul> | <ul style="list-style-type: none"> <li>• Electric pump, grease gun with indicator</li> <li>• 12V electric supply</li> <li>• Fire extinguisher</li> <li>• Full length track guard</li> <li>• General tool kit</li> <li>• Interconnected horn and warning light</li> <li>• Large-capacity batteries</li> <li>• Loading shovel attachments</li> <li>• Lower wiper</li> <li>• OPG top guard</li> <li>• Radio AM/FM</li> <li>• Rain visor</li> <li>• Rear view mirror (LH)</li> <li>• Rear view monitoring system</li> <li>• Rock protectors (undercarriage)</li> </ul> | <ul style="list-style-type: none"> <li>• Seat belt <b>78 mm</b> 3" , <b>50 mm</b> 2"</li> <li>• Service valve</li> <li>• Shoes:           <ul style="list-style-type: none"> <li>—<b>600 mm</b> 24" double grouser for backhoe</li> <li>—<b>750 mm</b> 29.5" triple grouser for backhoe</li> <li>—<b>900 mm</b> 35.5" triple grouser for PC600LC backhoe only</li> </ul> </li> <li>• Spare parts for first service</li> <li>• Step light with timer</li> <li>• Sun visor</li> <li>• Track frame undercover (center)</li> <li>• Vandalism protection locks</li> <li>• Working lights 2 (on cab)</li> </ul> |
|--|--|---|

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