



PC600/600LC-8R1 BACKHOE PC600/600LC-8R1 LOADING SHOVEL

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

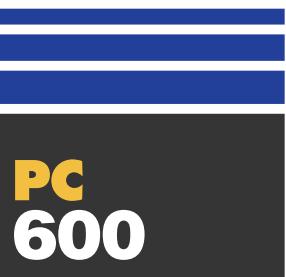


Photo may include optional equipment.

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.

- **Removed Water and Contamination in Fuel**

- Fuel pre-filter with water separator
- High efficiency fuel filter
- Water separator

- **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.



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.

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

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Large TFT LCD Monitor

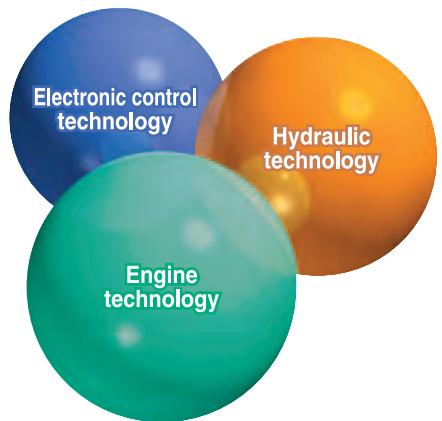
- Easy-to-see and use 7" large multi-function color monitor
- Can be displayed in 12 languages for global support.

TFT : Thin Film Transistor
LCD : Liquid Crystal Display

See page 10.

PRODUCTIVITY & ECOLOGY FEATURES

Komatsu Technology



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

High Power Komatsu SAA6D140E Engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides 320 kW 429 HP. This Komatsu SAA6D140E engine actualizes high-power to low fuel consumption with the optimum fuel injection by electronic heavy duty HPCR (High Pressure Common Rail) fuel injection system.



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.

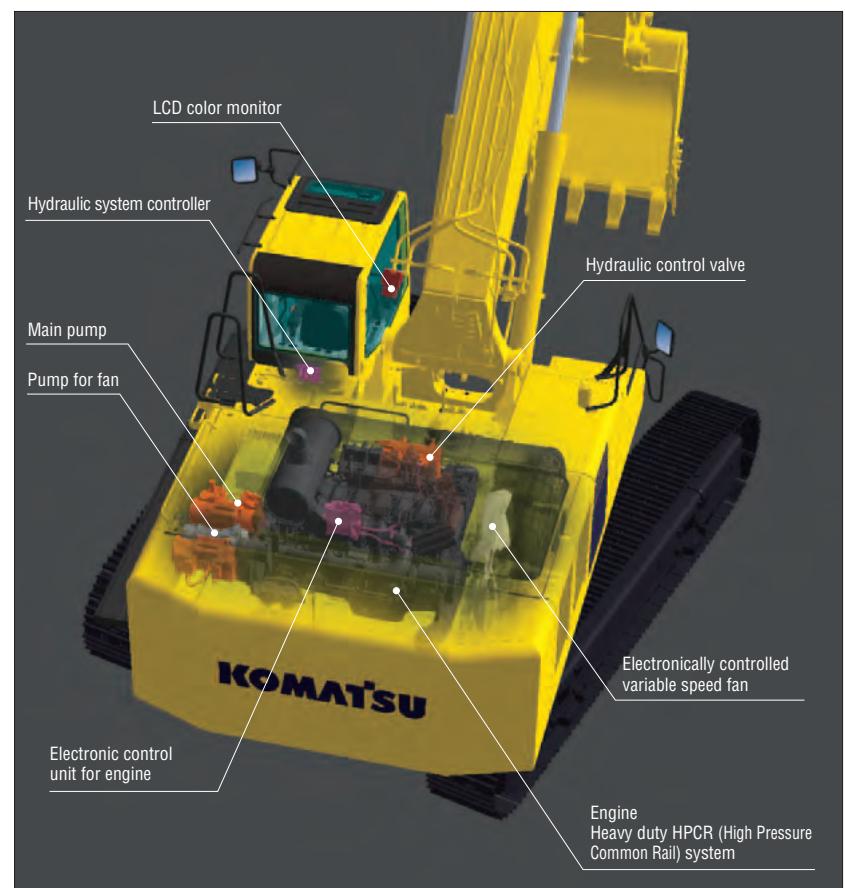
Lower and Economical Fuel Consumption Using Economy Mode

Enables operator to set the Economy mode to four levels according to working conditions so that production requirement is achieved at the 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. Operation in the green range allows reduction of CO₂ emission and fuel consumption.



Idling Caution

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



Auto Deceleration and Auto Idling System

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

Working Modes Selectable

P and E 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 work equipment speed for light duty work.



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

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)

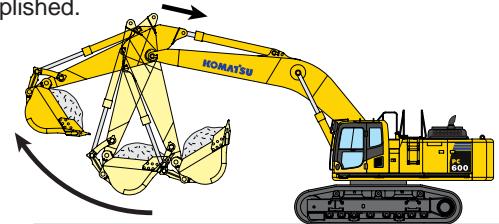
Maximum arm crowd force (ISO):
228 kN (23.3 tonf) ➔ **246 kN (25.1 tonf)** 8% UP
(with Power Max.)

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

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

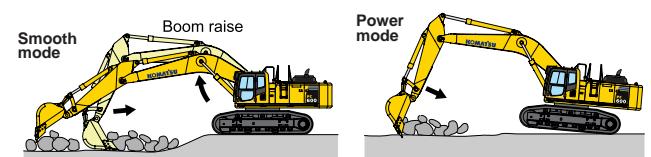
Work Equipment Speed Increased

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.



Lifting Mode

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

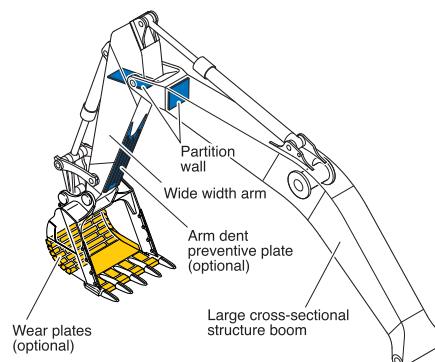


Photo may include optional equipment.

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

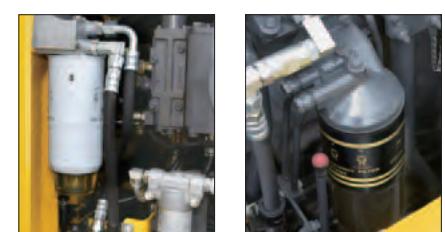
The revolving frame mount and center frame mount on the swing circle are no welding structure so that force is transmitted directly to the thick plate of the frame without passing through any welding.

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.

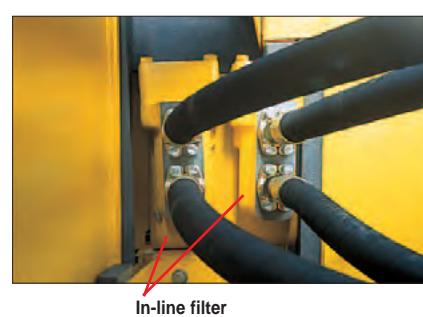


Fuel pre-filter

Fuel filter

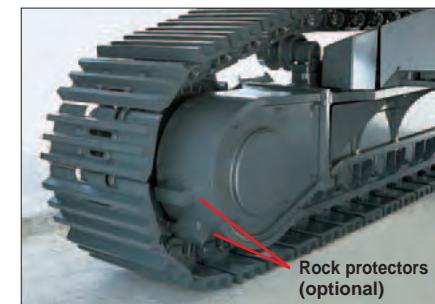
High-pressure In-line Filtration

The PC600-8R1 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.



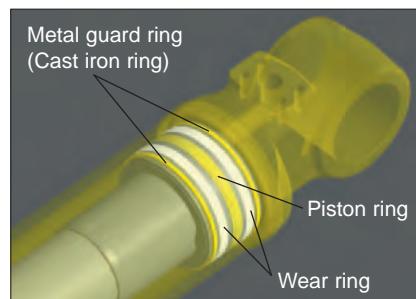
Sturdy Undercarriage

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



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.

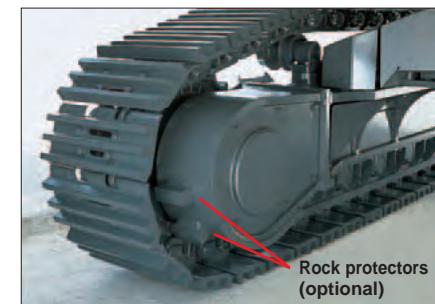
Water Separator

Removes water from the fuel and improves the reliability of fuel systems.



Sturdy Undercarriage

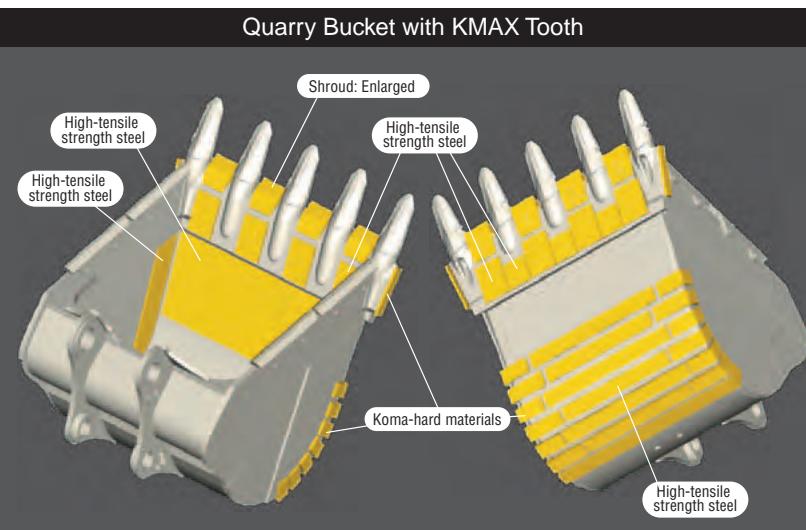
The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock.



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/mm² 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

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



Photo may include optional equipment.

WORKING ENVIRONMENT



Wide Newly-designed Cab

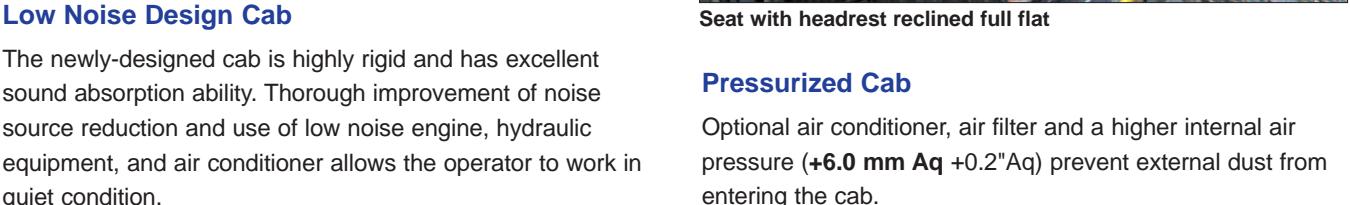
Newly-designed wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational position of the armrest and the console. The reclining seat further enables you to place it into the fully flat state with the headrest attached.



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.



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.



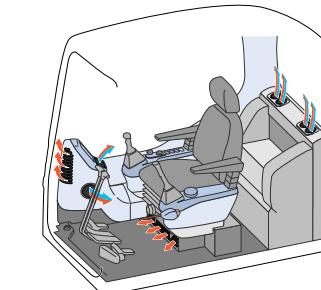
Seat sliding amount: 340 mm 13.4"

Low Vibration with Cab Damper Mounting

PC600-8R1 uses viscous damper mounts for the cab that incorporates longer stroke and the addition of a spring. The cab damper mounting combined with high rigidity deck aids vibration reduction at the operator's seat.

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.



Cab Equipments



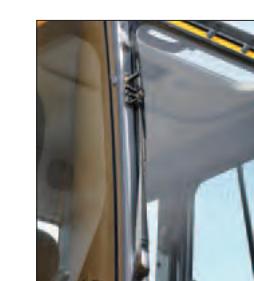
Skylight



Sliding Window and Large Side Mirror



Defroster (optional)



Cab Frame Mounted Wiper

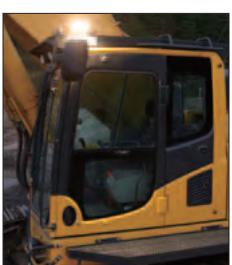


Bottle Holder and Magazine Rack

Safety Features

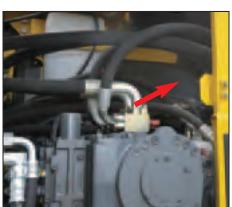
Step Light with Timer (optional)

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

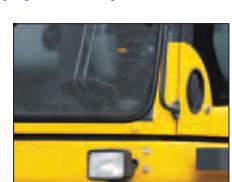
are placed around high-temperature parts of the engine and fan drive.

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. The switches are simple and easy to operate. 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"> • Maximum production/power • Fast cycle time
E (E0,E1,E2,E3)	Economy Mode	<ul style="list-style-type: none"> • Good cycle time • Good fuel economy
L	Lifting Mode	<ul style="list-style-type: none"> • Hydraulic pressure is increased 17%.

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 for oil and filters when the replacement interval is reached.

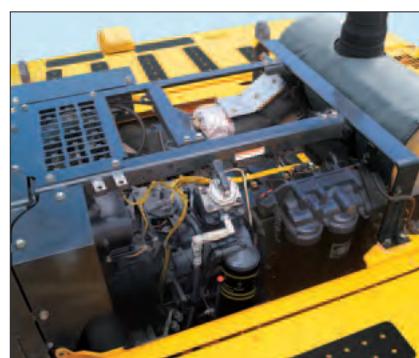


Trouble Data Memory Function

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.



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

Wide Catwalk

Easier, safer operator cab access and maintenance checks.

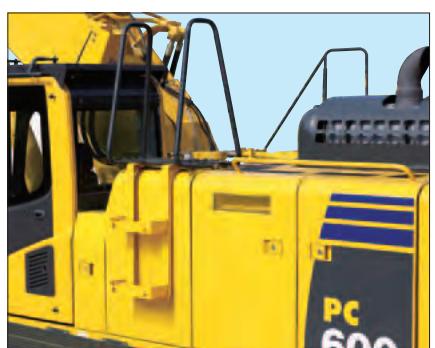


Anti-slip Plates

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 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
 Number of cylinders 6
 Bore 140 mm 5.51"
 Stroke 165 mm 6.50"
 Piston displacement 15.24 ltr 930 in³
 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.

**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/cm² 4,620 psi
 Loading shovel 29.4 MPa 300 kgf/cm² 4,270 psi
 Travel circuit 34.3 MPa 350 kgf/cm² 4,980 psi
 Swing circuit 25.5 MPa 260 kgf/cm² 3,700 psi
 Pilot circuit 2.9 MPa 30 kgf/cm² 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 gear triple reduction
 Maximum drawbar pull 415kN 42300 kgf 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 (PC600-8R1)
 52 each side (PC600LC-8R1)
 No. of carrier rollers 3 each side
 No. of track rollers 8 each side (PC600-8R1)
 9 each side (PC600LC-8R1)

**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 m³ 3.53 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment

Shoes	PC600-8R1		PC600LC-8R1	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Triple grouser 600 mm 24"	59200 kg 130,510 lb	104.9 kPa 1.07 kgf/cm ² 15.2 psi	60200 kg 132,720 lb	99.0 kPa 1.01 kgf/cm ² 14.4 psi
750 mm 29.5"	60000 kg 132,280 lb	85.3 kPa 0.87 kgf/cm ² 12.4 psi	61000 kg 134,480 lb	80.4 kPa 0.82 kgf/cm ² 11.7 psi
900 mm 35.5"	–	–	61900 kg 136,460 lb	67.7 kPa 0.69 kgf/cm ² 9.8 psi

LOADING SHOVEL

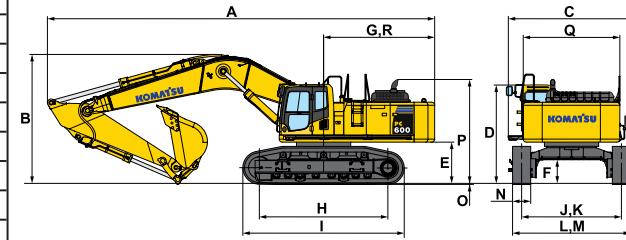
Operating weight, including 4000 mm 13'1" boom, 3000 mm 9'10" arm, 4.0 m³ 5.2 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment

Shoes	PC600-8R1		PC600LC-8R1	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Double grouser 600 mm 24"	63200 kg 139,330 lb	111.8 kPa 1.14 kgf/cm ² 16.2 psi	64200 kg 141,540 lb	105.9 kPa 1.08 kgf/cm ² 15.4 psi

**DIMENSIONS**

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"

	PC600-8R1	PC600LC-8R1
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"



Unit: mm ft in

WORKING RANGE

	PC600/600LC-8R1			
	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 29500 kgf 59,300 lb
Bucket digging force at power max. (SAE)				
				285 kN 29100 kgf 64,150 lbf
Arm crowd force (SAE)				
				222 kN 22600 kgf 49,820 lb
Arm crowd force at power max (SAE)				
				238 kN 24300 kgf 53,570 lb
Bucket digging force (ISO)				
				294 kN 30000 kgf 66,140 lb
Bucket digging force at power max. (ISO)				
				317 kN 32300 kgf 71,210 lb
Arm crowd force (ISO)				
				228 kN 23300 kgf 51,370 lb
Arm crowd force at power max (ISO)				



BACKHOE BUCKET AND ARM COMBINATION

BUCKET CAPACITY (HEAPED)		WIDTH		WEIGHT (with side shrouds, side cutters) kg lb	TOOTH	ARM LENGTH m ft in		
SAE, PCSA m³ yd³	CECE m³ yd³	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"	2475 5,460	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" *	3335 7,350	KMAX	○	—	—

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

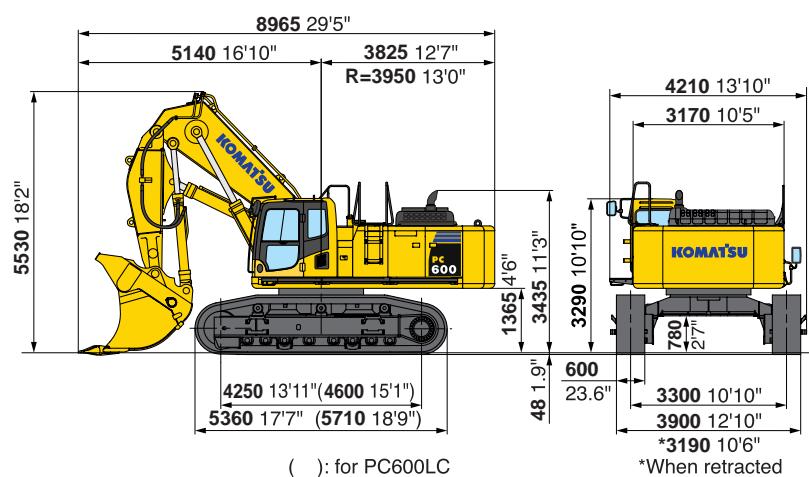
○ : General purpose use, density up to 1.8 t/m³ 3,000 lb/yd³ □: General purpose use, density up to 1.5 t/m³ 2,500 lb/yd³

— : Not useable

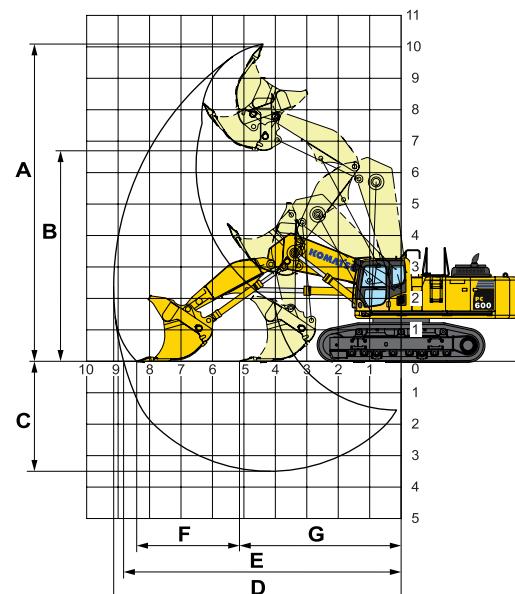
* : Bucket lip width ** : Available only to LC crawler



LOADING SHOVEL DIMENSIONS



LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION



Working Range

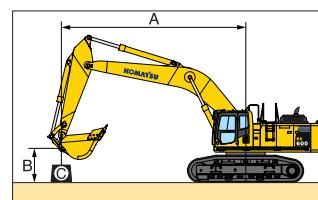
Type of bucket	Bottom dump
Capacity-heaped	4.0 m³ 5.2 yd³
A Max. cutting height	10090 mm 33'1"
B Max. dumping height	6705 mm 22'0"
C Max. digging depth	3495 mm 11'6"
D Max. digging reach	9190 mm 30'2"
E Max. digging reach at ground level	8850 mm 29'0"
F Level crowding distance	3275 mm 10'9"
G Min. crowd distance	5135 mm 16'10"
Bucket digging force	386 kN 39400 kg 86,860 lb
Arm crowd force	338 kN 34500 kg 76,060 lb

Bucket Selection

Type of bucket	Bottom dump
Capacity-heaped	4.0 m³ 5.2 yd³
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



PC600-8R1

- 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 : 2.7m³ 3.53cu.yd, Shoes : 600mm 24" triple, L mode: "OFF"

unit: kg lb

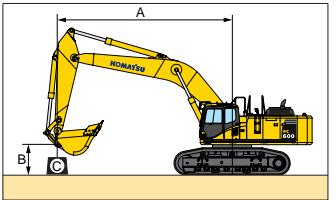
A	MAX		9.1m 29'		7.6m 24'		6.1m 20'		4.6m 15'		3.0m 9'	
	Cf	Cs										
9.1m 29'	● 6950 *15,300	● 6950 *15,300										
7.6m 24'	● 6750 *14,900	● 6750 *14,900	● 9400 *20,700	● 9400 *20,700								
6.1m 20'	● 6850 *15,100	● 6850 *15,100	● 9700 *21,400	● 9700 *21,400	● 10800 *23,800	● 10800 *23,800						
4.6m 15'	● 7100 *15,600	● 7100 *15,600	● 10400 *22,900	● 10400 *20,800	● 12100 *26,700	● 12100 *26,700	● 15000 *33,100	● 15000 *33,100	● 20100 *44,300	● 20100 *44,300		
3.0m 9'	● 7600 *16,700	● 7600 *16,700	● 11250 *24,800	● 11250 *19,800	● 13600 *30,000	● 13600 *27,000	● 17850 *39,300	● 17850 *38,400				
1.5m 4'	● 7950 *17,600	● 7950 *17,600	● 11350 *25,000	● 11350 *18,900	● 14800 *32,600	● 14800 *25,600	● 19650 *43,300	● 19650 *36,300	● 14500 *32,000	● 14500 *32,000		
0m 0'	● 8100 *17,900	● 8100 *17,900	● 11050 *24,400	● 11050 *18,300	● 14850 *32,800	● 14850 *24,600	● 11500 *44,500	● 11500 *34,900	● 16850 *37,100	● 16850 *37,100		
-1.5m -4'	● 8650 *19,100	● 8650 *19,100	● 6400 *14,100	● 6400 *24,000	● 10850 *24,000	● 10850 *17,900	● 20200 *32,200	● 20200 *24,000	● 15850 *44,100	● 15850 *34,300	● 16550 *36,500	● 16550 *36,500
-3.0m -9'	● 9700 *21,400	● 9700 *21,400	● 7200 *15,900	● 7200 *15,900	● 10850 *24,000	● 10850 *17,900	● 20200 *32,100	● 20200 *23,900	● 15850 *44,600	● 15850 *34,600	● 16850 *36,700	● 16850 *36,700
-4.6m -15'	● 10150 *22,800	● 10150 *22,800			● 12950 *22,800	● 12950 *19,700	● 20900 *32,600	● 20900 *24,400	● 16650 *46,100	● 16650 *35,100	● 15900 *58,300	● 15900 *57,300
-6.1m -20'	● 9500 *27,300	● 9500 *27,300			● 8550 *27,300	● 8550 *27,300	● 12800 *24,600	● 12800 *24,600	● 16300 *36,000	● 16300 *36,000	● 16300 *45,600	● 16300 *45,600

Boom : 7.3m 23'11", Arm : 3.5m 11'6", Bucket : 2.8m³ 3.66cu.yd, Shoes : 600mm 24" triple, L mode: "ON"

unit: kg lb

A	MAX		9.1m 29'		7.6m 24'		6.1m 20'		4.6m 15'		3.0m 9'	
Cf	Cs	Cf										
<th

 **LIFTING CAPACITY**



PC600-8R1

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

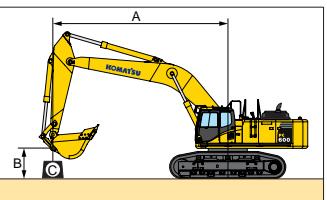
Boom : 7.3m 23'11", Arm : 3.5m 11'6", Bucket : 2.8m³ 3.66cu.yd, Shoes : 600mm 24" triple, L mode: "ON"										unit: kg lb				
B	A		MAX		9.1m 29'		7.6m 24'		6.1m 20'		4.6m 15'		3.0m 9'	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m 29'	*8150 *17,900	*8150 *17,900												
7.6m 24'	*7900 *17,400	*7900 *17,400	*9850 *21,700	9550 21,100										
6.1m 20'	*7950 *17,600	*7450 *16,500	*12150 *26,800	9400 20,800	*13200 *29,100	*13200 *29,100								
4.6m 15'	*8300 *18,300	6650 14,700	11900 26,300	9100 20,000	*14800 *32,600	12750 28,100	*18000 *39,700	*24400 *53,800	*24400 *53,800					
3.0m 9'	8350 18,400	6150 13,600	11450 25,300	8650 19,100	15850 34,900	12050 26,500	*21550 *47,500	17600 38,800	*26500 *58,400	*26500 *58,400				
1.5m 4'	8200 18,100	6050 13,300	11050 24,400	8300 18,300	15200 33,500	11450 25,200	*22150 *48,900	16500 36,400	*23400 *51,600	*23400 *51,600				
0m 0'	8400 18,500	6150 13,600	10800 23,800	8000 17,700	14700 32,400	11000 24,200	*21400 *47,200	15850 34,900	*17800 *39,300	*17800 *39,300				
-1.5m -4'	9000 19,800	6600 14,600	10650 23,400	7850 17,300	14450 31,800	10750 23,700	21050 46,500	15500 34,200	*25450 *56,100	*25450 *56,100	*16950 *37,300	*16950 *37,300		
-3.0m -9'	10250 22,600	7600 16,700	10650 23,500	7900 17,400	14400 31,700	10700 23,500	21050 46,500	15550 34,200	*30700 *67,700	25800 56,900	*23750 *52,400	*23750 *52,400		
-4.6m -15'	12950 28,600	9650 21,300			14650 32,300	10900 24,100	*20350 *44,900	15850 34,900	*26250 *57,900	*26100 *57,500	*33500 *73,900	*33500 *73,900		
-6.1m -20'	*12450 *27,400	*12450 *27,400					*14750 *32,600	*14750 *32,600	*19500 *43,000	*19500 *43,000				

Boom : 6.6m 21'8", Arm : 2.9m 9'6", Bucket : 3.5m³ 4.58cu.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	Cf	Cs
9.1m 29'	*9650 *21,300	*9650 *21,300												
7.6m 24'	*9050 *20,000	*9050 *20,000			*11550 *25,500	*11550 *25,500								
6.1m 20'	*8950 *19,700	*8950 *19,700			*11750 *25,900	*11750 *25,900								
4.6m 15'	*9200 *20,300	8250 18,100	*11250 *24,800	9000 19,800	*12700 *28,000	*12700 *28,000	*15450 *34,100	*15450 *34,100	*20100 *44,400	*20100 *44,400				
3.0m 9'	*9800 *21,600	7600 16,700	11500 25,300	8650 19,100	*14000 *30,900	12100 26,600	*17950 39,600	17650 38,900	*24650 *54,300	*24650 *54,300				
1.5m 4'	9950 22,000	7400 16,400	11150 24,600	8350 18,400	*15000 *33,100	11500 25,400	*19750 *43,500	16750 36,900	*26900 *59,400	*26900 *59,400				
0m 0'	10300 22,700	7650 16,900	10900 24,100	8100 17,900	14850 32,800	11100 24,500	*20250 *44,600	16100 35,500	*26150 *57,700	*25000 *55,100				
-1.5m -4'	11250 24,800	8400 18,500	10850 24,000	8050 17,800	14650 32,300	10900 24,100	*19800 *43,600	15800 34,900	*26750 *58,900	*25950 *57,200	*18800 *41,500	*18800 *41,500		
-3.0m -9'	11500 25,400	9950 22,000			*13250 *29,200	11000 24,300	*17950 *39,600	15950 35,100	*23750 *52,400	*24700 *54,500	*24700 *54,500			
-4.6m -15'	*10650 *23,500	*10650 *23,500					*13500 *29,800	*13500 *29,800	*18250 *40,300	*18250 *40,300	*23100 *50,900	*23100 *50,900		

Boom : 6.6m 21'8", Arm : 2.9m 9'6", Bucket : 3.5m³ 4.58cu.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	Cf	Cs
9.1m 29'	*11800 *26,000	*11800 *26,000												
7.6m 24'	*11100 *24,400	*11100 *24,400			*14400 *31,800	13500 29,800								
6.1m 20'	*10950 *24,200	9400 20,700			*14700 *32,400	13300 29,300								
4.6m 15'	10900 24,000	8250 18,100	11800 26,100	9000 19,800	*15900 *35,100	12750 28,200	*19100 *42,100	18950 41,800	*24600 *54,300	*24600 *54,300				</



LIFTING CAPACITY



PC600LC-8R1

- 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 : 7.3m 23'11", Arm : 3.5m 11'6", Bucket : 2.8m³ 3.66cu.yd, Shoes : 600mm 24" triple, L mode: "ON"

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'	*8150 *17,900	*8150 *17,900										
7.6m 24'	*7900 *17,400	*7900 *17,400	*9850 *21,700	9750 21,500								
6.1m 20'	*7950 *17,600	7650 16,800	*12150 *26,800	9600 21,100	*13200 *29,100	*13200 *29,100						
4.6m 15'	*8300 *18,300	6800 15,000	*12900 *28,400	9250 20,400	*14800 *32,600	13000 28,600	*18000 *39,700	*18000 *39,700	*24400 *53,800	*24400 *53,800		
3.0m 9'	*8900 *19,700	6300 13,900	13150 29,000	8850 19,500	*16700 *36,800	12250 27,000	*21550 *47,500	17900 39,400	*26500 *58,400	*26500 *58,400		
1.5m 4'	9450 20,900	6150 13,600	12750 28,100	8450 18,700	17450 38,500	11650 25,700	*23950 *52,800	16800 37,100	*23400 *51,600	*23400 *51,600		
0m 0'	9700 21,400	6300 13,900	12450 27,400	8200 18,100	16950 37,400	11200 24,700	24750 54,600	16150 35,600	*17800 *39,300	*17800 *39,300		
-1.5m -4'	10400 22,900	6800 14,900	12300 27,100	8050 17,700	16700 36,800	10950 24,100	*24500 *54,000	15800 34,900	*25450 *56,100	*25450 *56,100	*16950 *56,100	*16950 *56,100
-3.0m -9'	11850 26,100	7750 17,100	12300 27,100	8050 17,800	16600 36,600	10900 24,000	*23450 *51,700	15850 34,900	*30700 *67,700	*26250 *57,900	*23750 *52,400	*23750 *52,400
-4.6m -15'	*13350 *29,400	9850 21,800			*15450 *34,100	11150 24,600	*20350 *44,900	16150 35,600	*26250 *57,900	*26250 *73,900	*33500 *73,900	*33500 *73,900
-6.1m -20'	*12450 *27,400	*12450 *27,400					*14750 *32,600	*14750 *32,600	*19500 *43,000	*19500 *43,000		

Boom : 6.6m 21'8", Arm : 2.9m 9'6", Bucket : 3.5m³ 4.58cu.yd, Shoes : 600mm 24" triple, L mode: "OFF"

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'	*9650 *21,300	*9650 *21,300										
7.6m 24'	*9050 *20,000	*9050 *20,000			*11550 *25,500	*11550 *25,500						
6.1m 20'	*8950 *19,700	*8950 *19,700			*11750 *25,900	*11750 *25,900						
4.6m 15'	*9200 *20,300	8400 18,500	*11250 *24,800	9150 20,200	*12700 *28,000	*12700 *28,000	*15450 *34,100	*15450 *34,100	*20100 *44,400	*20100 *44,400		
3.0m 9'	*9800 *21,600	7750 17,100	*11750 *25,900	8850 19,500	*14000 *30,900	12300 27,100	*17950 *39,600	17900 39,500	*24650 *54,300	*24650 *54,300		
1.5m 4'	*10800 *23,800	7600 16,700	*12150 *26,800	8500 18,800	*15000 *33,100	11750 25,900	*19750 *43,500	17050 37,600	*26900 *59,400	26350 58,100		
0m 0'	*11500 *25,400	7800 17,200	*12200 *26,900	8300 18,300	*15500 *34,000	11350 25,000	*20250 *44,600	16400 36,200	*26150 *57,700	25450 56,100		
-1.5m -4'	*11600 *25,600	8550 18,900	*11300 *24,900	8250 18,200	*15000 *33,100	11150 24,600	*19800 *43,600	16100 35,500	*26750 *58,900	*26400 *58,200	*18800 *41,500	*18800 *41,500
-3.0m -9'	*11500 *25,400	10150 22,400			*13250 *29,200	11250 24,800	*17950 *39,600	16250 35,800	*23750 *52,400	*23750 *52,400	*24700 *54,500	*24700 *54,500
-4.6m -15'	*10650 *23,500	*10650 *23,500					*13500 *29,800	*13500 *29,800	*18250 *40,300	*18250 *40,300	*23100 *50,900	*23100 *50,900

Boom : 6.6m 21'8", Arm : 2.9m 9'6", Bucket : 3.5m³ 4.58cu.yd, Shoes : 600mm 24" triple, L mode: "ON"

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'	*11800 *26,000	*11800 *26,000										
7.6m 24'	*11100 *24,400	*11100 *24,400			*14400 *31,800	13700 30,300						
6.1m 20'	*10950 *24,200	9600 21,100			*14700 *32,400	13500 29,800						
4.6m 15'	*11250 *24,800	8400 18,500	*13500 *29,800	9150 20,200	*15900 *35,100	13000 28,700	*19100 *42,100	*19100 *42,100	*24650 *54,300	*24600 *54,300		
3.0m 9'	11650 25,700	7750 17,100	13150 29,000	8850 19,500	*17500 *38,600	12300 27,100	*22250 *49,000	18050 39,800	*30350 *66,900	28500 62,800		
1.5m 4'	11450 25,300	7600 16,700	12800 28,300	8500 18,800	17550 38,700	11750 25,900	*24450 *54,000	17050 37,600	*26900 *59,400	26350 58,100		
0m 0'	11850 26,100	7800 17,200	12550 27,700	8300 18,300	17150 37,800	11350 25,000	25100 55,300	16400 36,200	*26150 *57,700	25450 56,100		
-1.5m -4'	12950 28,600	8550 18,900	12500 27,600	8250 18,200	16900 37,300	11150 24,600	*24650 *54,300	16100 34,500	*33050 *72,800	26550 58,600	*2	

 **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, 50 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
- Water separator

 **OPTIONAL EQUIPMENT**

- Alternator, 90 amp, 24 V
- Arms (Backhoe):
 - 3500 mm** 11'6" arm assembly
 - 3500 mm** 11'6" HD arm assembly
 - 4300 mm** 14'1" arm assembly
 - 5200 mm** 17'1" arm assembly
 - 2900 mm** 9'6" SE arm assembly
- Automatic air conditioner
- Booms (Backhoe):
 - 7660 mm** 25'2" boom assembly
 - 7300 mm** 23'11" HD boom assembly
 - 6600 mm** 21'8" SE boom assembly
- Cab front guard (ISO 10262 level 2)
- Cab with fixed front window
- Counterweight **13500kg** 29,800 lb

- Electric pump, grease gun with indicator
- 12V electric supply
- Fire extinguisher
- Full length track roller guard
- General tool kit
- Interconnected horn and warning light
- Large-capacity batteries
- Loading shovel attachments
- Lower wiper
- OPG top guard
- Radio AM/FM
- Rain visor
- Rear view mirror (LH)
- Rear view monitoring system
- Rock protectors (undercarrige)
- Seat belt **78 mm** 3", **50 mm** 2"
- Service valve
- Shoes:
 - 600 mm** 24" double grouser for backhoe
 - 750 mm** 29.5" triple grouser for backhoe
 - 900 mm** 35.5" triple grouser for PC600LC backhoe only
- Spare parts for first service
- Step light with timer
- Sun visor
- Track frame undercover (center)
- Vandalism protection locks
- Working lights 2 (on cab)

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Printed in Japan 201203 IP.As

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CEN00426-01

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KOMATSU

Komatsu India Private Limited

PC600LC-8R (LS)