

KOMATSU®

**PC228US-8
PC228USLC-8**

ecot3

**PC
228us**

HORSEPOWER
Gross: 116 kW 155 HP @ 2000 rpm
Net: 110 kW 148 HP @ 2000 rpm
OPERATING WEIGHT
PC228US-8: 21900–22530 kg
48,280–49,670 lb
PC228USLC-8: 22830–23380 kg
50,330–51,540 lb



Photo may include optional equipment.

HYDRAULIC EXCAVATOR

www.Komatsu.com

Printed in Japan 201309 IP.As

KOMATSU®

CEN00406-01

Materials and specifications are subject to change without notice.
KOMATSU® is a trademark of Komatsu Ltd. Japan.

WALK-AROUND

Komatsu's PC228US-8 Series Hydraulic Excavators have a short tail swing profile, designed specifically for work in confined areas. By reducing tail swing, the PC228US-8 can work in areas where conventional profile excavators would pose a safety risk.

Ecology and Economy Features

- **Low Emission Engine**

A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D107E-1 provides **110 kW** 148 HP. This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

- **Economy Mode improves Fuel Consumption**

- **Low Operation Noise**

The reduced dynamic noise provides low noise operation.

See page 4.

Upper Structure Features

- Slip resistant surfaces for improved foot traction
- Rear view monitoring system (optional)

See page 9.

Productivity Features

- **Fuel-saving Technology**

PC228US-8 introduces new engine and hydraulic pump control technology.

- **High Stability**

The PC228US-8 offers exceptional lifting capacity and high stability with a large counterweight.

- **Mode Selection**

Five working modes are designed to match engine speed, pump delivery and system pressure to the application.

See page 5.

Operation Features

- **Small Tail Swing**

- Excellent operation in tight quarters with small tail swing radius design
- Round profile provides short protrusion of front and rear portion of the upper structure.
- Occupies small range for operation on narrow roads.

See pages 6 and 7.

- **Wide Working Ranges**

Job sites that require a long upper reach, such as demolition and slope cutting also benefit from the wide digging and dumping ranges of the PC228US-8.

See page 7.

HORSEPOWER

Gross: 116 kW 155 HP @ 2000 rpm

Net: 110 kW 148 HP @ 2000 rpm

OPERATING WEIGHT

PC228US-8: 21900 – 22530 kg
48,280 – 49,670 lb

PC228USLC-8: 22830 – 23380 kg
50,330 – 51,540 lb

BUCKET CAPACITY

0.50 – 1.00 m³

0.65 – 1.31 yd³

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 11.



Photo may include optional equipment.

Large Comfortable Cab

- Low noise cab design with viscous cab mounting
- Sliding convex door allows easy entrance in confined areas.
- Large cab improves working space.

See page 8.

Easy Maintenance

- Long replacement interval of hydraulic oil and hydraulic filter
- Remote mounted engine oil filter and fuel drain valve for easy access
- Equipped with the fuel pre-filter as standard (with water separator)
- Side-by-side cooling concept enables individual cooling modules to be serviced.
- Equipped with the Equipment Management Monitoring System (EMMS)

See pages 10 and 11.

PRODUCTIVITY & ECOLOGY FEATURES

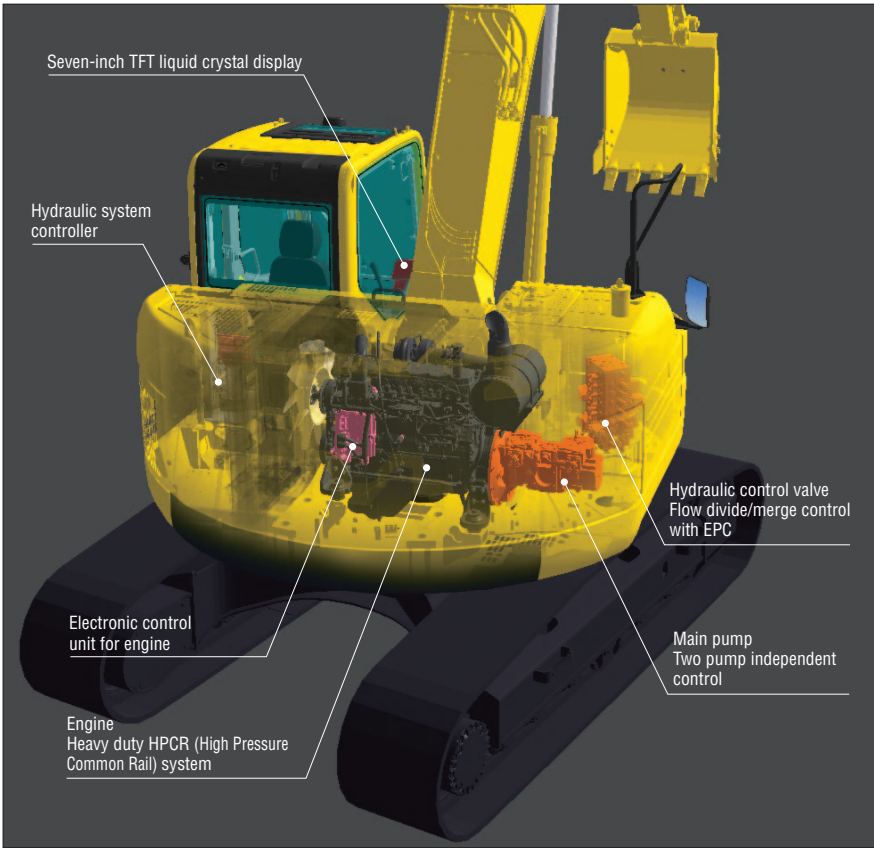
Komatsu Technology



Komatsu develops and produces all major components in house such as engines, electronics and hydraulic components. Combining “Komatsu Technology”, and 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.

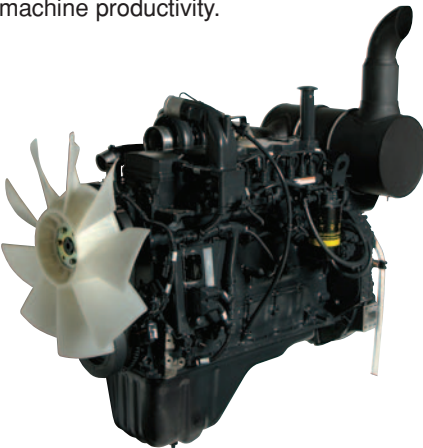
Low Fuel Consumption

The newly-developed Komatsu SAA6D107E-1 [ecot3] engine enables NOx emissions to be significantly reduced with the accurate multi-staged fuel injection by the engine controller. It improves total engine durability using the high-pressure fuel injection system developed specifically for construction machinery. This excavator significantly reduces hourly fuel consumption using the highly-efficient matching techniques of the engine and hydraulic unit and also provides features that promote energy-saving operations such as the E mode and Eco-gauge.



Low Emission Engine

Komatsu SAA6D107E-1 engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.



Low Operation Noise

Enables low noise operation using the low-noise engine and methods to cut noise at source.

Electronically controlled common rail type engine

- Multi-staged injection
- Highly-rigid cylinder block

Low noise design

- Optimal arrangement of sound absorbing materials
- Partition between the cab and engine room
- Airtight valve room



Fuel-saving Technology

New technology of Engine and Pump control

PC228US-8 introduces new technology of Engine and Hydraulic Pump control, providing further fuel savings with sufficient oil flow at lower Engine speed.

Large Digging Force

The machine has a digging force equal to that of PC200-8. Furthermore, the operator can increase the power by 8 % using single-touch power increase function when requiring an extra power.

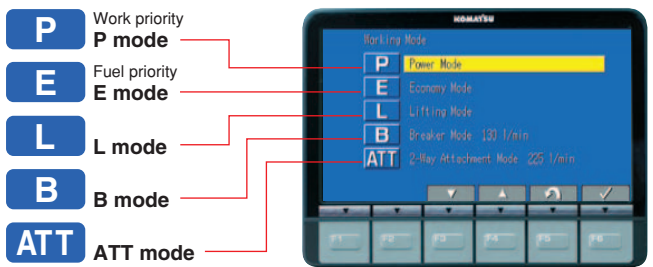
High Stability

The PC228US-8 offers exceptional lifting capacity and high stability with a large cast-iron counterweight.

Working Modes Selectable

The PC228US-8 excavator is equipped with five working modes (P, E, L, B and ATT mode). Each mode is designed to match engine speed and pump output to the application. This provides the flexibility to match equipment performance to the job at hand.

Working Mode	Application	Advantage
P	Power mode	• Maximum production/power • Fast cycle times
E	Economy mode	• Good cycle times • Better fuel economy
L	Lifting mode	• Suitable attachment speed
B	Breaker mode	• Optimum engine rpm, hydraulic flow
ATT	Attachment mode	• Optimum engine rpm, hydraulic flow, 2way



Eco-gauge that Assists Energy-saving Operations

The Eco-gauge on the right side of the multi-function color monitor provides environment-friendly energy-saving operation. Focus on operation in the green range allows reduction of CO2 emissions and efficient 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.

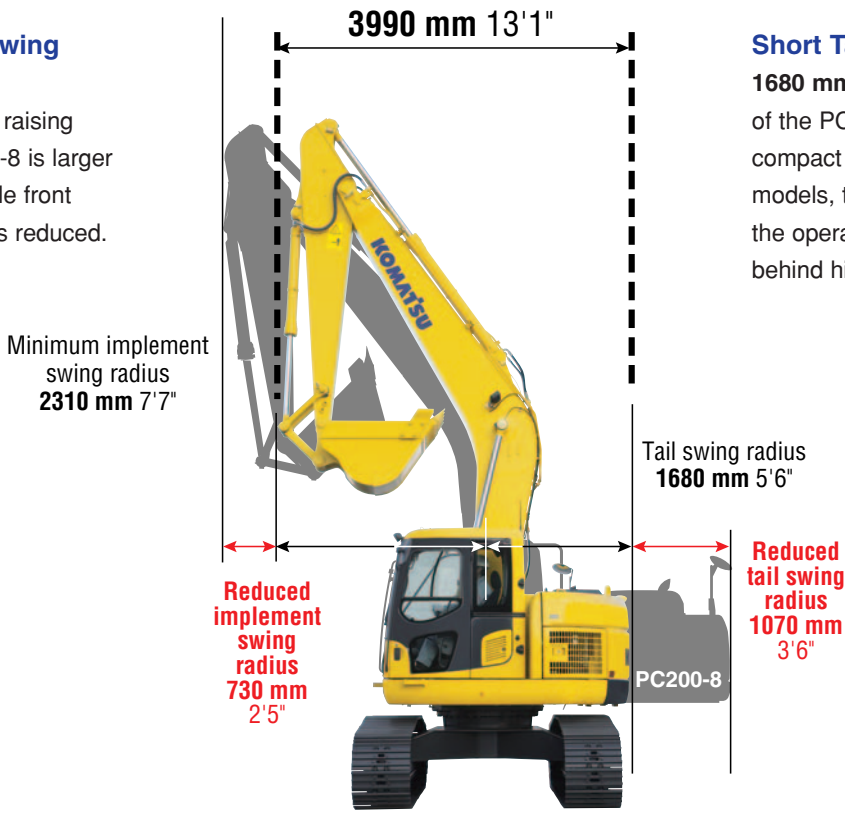


OPERATION FEATURES

Safe Operation with Small Tail Swing Even in Confined Areas

Short Implement Swing Radius:

2310 mm 7'7"—Boom raising angle of the PC228US-8 is larger than the PC200-8, while front implement protrusion is reduced.

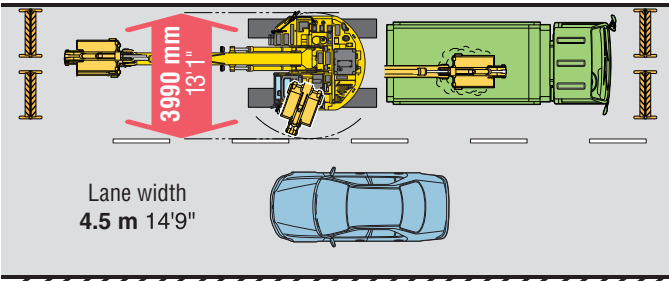


Short Tail Swing Radius:

1680 mm 5'6"—Because the tail of the PC228US-8 is more compact than conventional models, the PC228US-8 reduces the operator's need to check behind him for swing operation.

Roadwork

When performing roadwork, protrusion of the machine into the unoccupied lane is kept minimal since the rear portion of the upper structure protrudes slightly from the track at swing. This allows a dump truck to be positioned closer to the track of the machine. The operator is able to load materials efficiently onto the front of the dump body at ease since ample dumping reach is assured for the loading. Large working space is not required for the machine.



Logging and forest roadwork

Since the protrusion of the rear portion of the upper structure is kept minimal, there is less possibility of the counterweight hitting against a tree or a slope, allowing the operator to operate the machine at ease. Furthermore, large digging height facilitates slope finishing work. Large drawbar pull assures smooth and powerful traveling even on rough terrain.

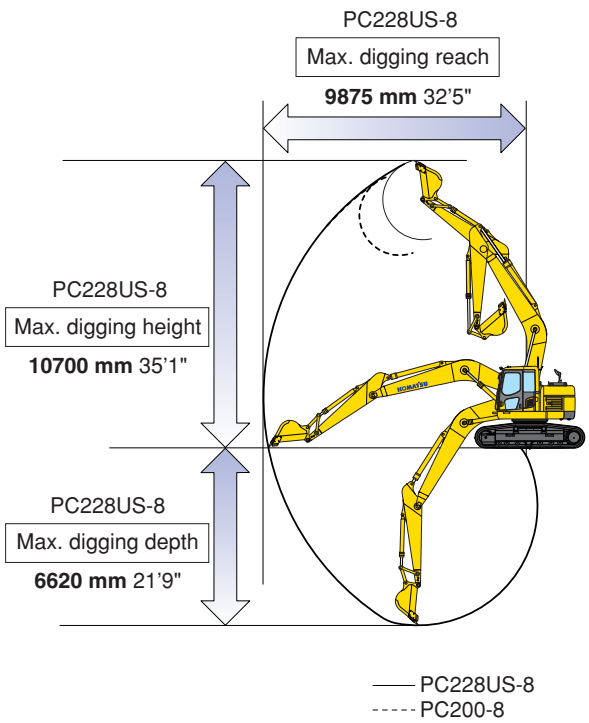


Demolition

The machine needs less working space and can perform efficient demolition work since it has large and ample digging height.

Wide Working Ranges

Wide angle of PC228US-8 boom operation enhances overall working performance. Job sites that require a long upper reach, such as demolition and slope cutting, also benefit from the wide digging and dumping ranges of the PC228US-8.



	PC228US-8	PC200-8
Maximum digging height	10700 mm 35'1"	9500 mm 31'2"
Maximum digging depth	6620 mm 21'9"	5380 mm 17'8"
Maximum dumping height	7825 mm 25'8"	6630 mm 21'9"

Round Profile of both Front and Rear Portion of the Upper Structure

Komatsu hydraulic excavators with short tail swing radius design adopt the round profile for both left and right corners of the front portion of the upper structure as well as its rear portion that features less protrusion from the track at swing. The round profile design contributes to the prevention of contact accident at swing and allows the machine to work in tight quarters or job sites where there are some obstacles.

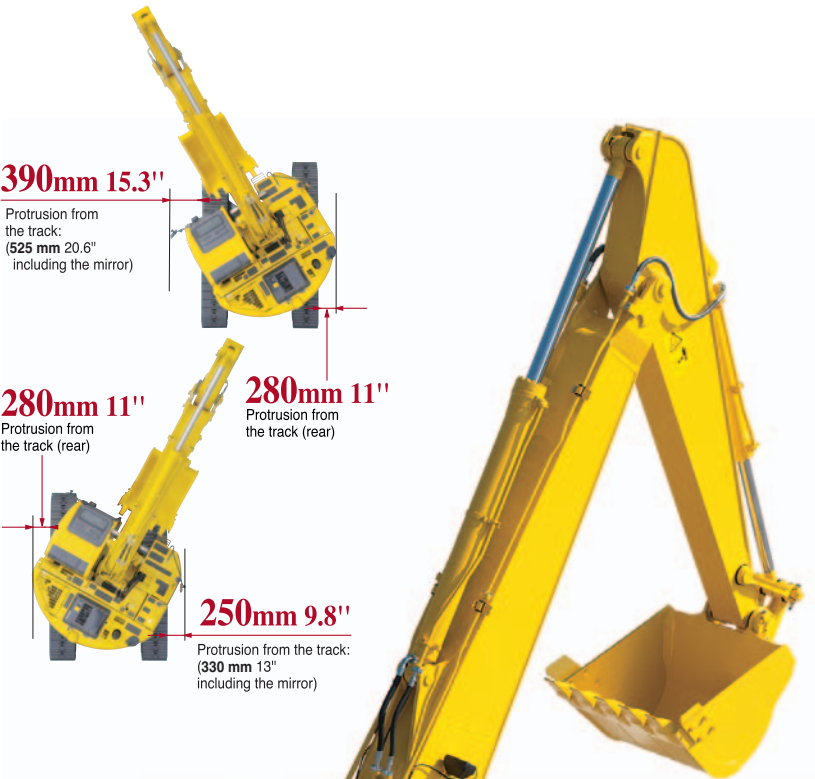


Photo may include optional equipment.

WORKING ENVIRONMENT

PC228US-8 cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

Multi-position Controls

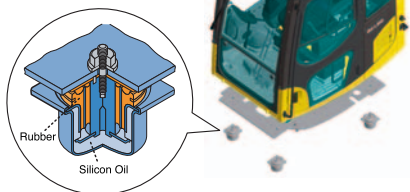
The multi-position, PPC (pressure proportional control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and controllers to move together or independently, allowing the operator to position the seat and controllers for maximum productivity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

Low Cab Noise

The cab is highly rigid and has excellent sound absorption. Improvements in noise source reduction combined with the use of a low noise engine, hydraulic equipment, and air conditioner allows the operator to work in a quiet environment.

Comfortable Ride with Viscous Cab Mounts

Viscous mounts are used for the cab mounting system. The cab mount system absorbs shocks and aids vibration reduction to provide a comfortable ride.



Pressurized Cab

Auto air conditioner, air filter and a higher internal air pressure prevent external dust from entering the cab.



Photo may include optional equipment.

Large Cab

Large cab provides ample operation space. The cab has wide doorway for easy access.



Automatic Air Conditioner

The automatic air conditioner uses a bi-level control function to keep 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 cab glass clear.

Sliding Convex Door

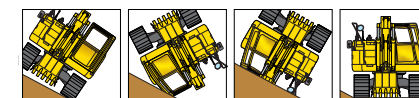
The sliding convex door provides easy entrance in confined areas.



Features

ROPS Cab

The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. The ROPS cab has high shock-absorption performance, featuring excellent durability and impact strength. It also satisfies the requirements of ISO OPG top guard level 1 for falling objects. Combined with the retractable seat belt, the ROPS cab protects the operator in case of tipping over and against falling objects.



Retractable Seat Belt (optional)

Easy-to-use retractable seat belt is employed.



Tempered and Tinted Glass

The glass features high strength and blocks ultraviolet rays.

Emergency Escape Hammer

The cab is equipped with an emergency escape hammer for breaking the rear window glass in case of an emergency.

Travel Alarm

An alarm is installed as standard equipment to give other workers a warning when the machine travels in forward or reverse.

Pump/engine Room Partition

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

Slip-resistant Plates

Highly durable slip resistant plates maintain superior foot traction performance.



Lock Lever

When lock lever is placed in lock position all hydraulic controls (travel, swing, boom, arm and bucket) are inoperable.



Lever shown in lock position

Rear View Monitoring System (optional)



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



Rear view image on monitor

Wide Visibility

The right side window pillar has been removed and the rear pillar reshaped to provide improved visibility.



Skylight

Skylight with window can be opened for overhead visibility.



MAINTENANCE FEATURES

Easy Maintenance

Komatsu designed the PC228US-8 to have easy service access. By doing so, routine maintenance and servicing are less likely to be skipped, which can reduce costly downtime later on. Here are some of the many service features found on the PC228US-8.

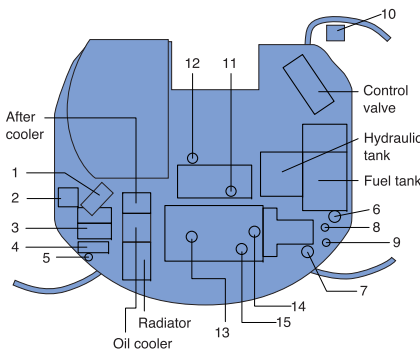
Optimum Maintenance Layout

Through the left and right side service doors, it is possible to access the major maintenance points from ground level. Furthermore, the fuel drain valve, engine oil filter, swing machinery oil filler, and PTO oil filler are remote mounted, facilitating easy maintenance.

Equipped with the Fuel Pre-filter (with Water Separator)



Removes water and contaminants in the fuel to prevent fuel problems.

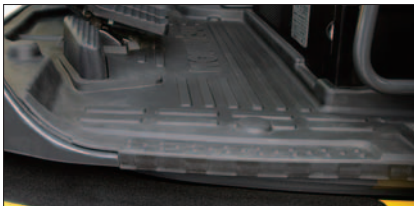


- 1. Air cleaner
- 2. Coolant reserve tank
- 3. Batteries
- 4. Tool box
- 5. Grease gun holder
- 6. Fuel pre-filter (with water separator)
- 7. Engine oil filter
- 8. Fuel drain valve
- 9. Oil filler for PTO
- 10. Windshield washer tank
- 11. Oil level check pipe for machinery
- 12. Oil filler for machinery
- 13. Engine oil check pipe
- 14. Engine oil filler
- 15. Fuel filter



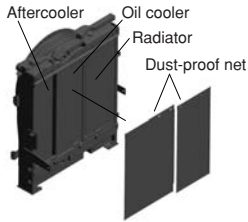
Washable Floor

The PC228US-8's floor is easy to keep clean. The gently inclined surface has a flanged floor mat and drainage holes to facilitate run off.



Side-by-side Cooling

The oil cooler, aftercooler and radiator are installed side by side. As a result, it is very easy to clean the radiator, etc. In addition, the operator can remove and install the aftercooler, radiator and oil cooler in a short time period.



High Efficiency Fuel Filter

Fuel system reliability is even better with high efficiency fuel filter.



Maintenance Costs Reduced

Eco-white Filter Element

High performance filters are used in the hydraulic circuit and engine. Longer hydraulic oil, hydraulic oil filter, engine oil and engine oil filter element replacement intervals significantly reduce maintenance costs.

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



Large TFT LCD 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. Industry first function keys facilitate multi-function operations. Displays data in 12 languages to globally 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
 - 2 Working mode selector
 - 3 Travelling selector
 - 4 Buzzer cancel
 - 5 Wiper
 - 6 Windshield washer

EMMS (Equipment Management Monitoring System)

Monitor function

Controller monitors engine oil level, coolant temperature and battery charge, 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.

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D107E-1
Type Water-cooled, 4-cycle
Aspiration Turbocharged, aftercooled
Number of cylinders 6
Bore x stroke **107 mm x 124 mm** 4.21" x 4.88"
Piston displacement **6.69 ltr** 408 in³
Governor All-speed control, electronic
Horsepower
SAE J1995 Gross **116 kW** 155 HP
ISO 9249 / SAE J1349 Net **110 kW** 148 HP
Rated rpm 2000 rpm
Fuel system Direct injection
Lubrication system
Method Gear pump, force-lubrication
Filter Full-flow
Air cleaner Dry-type with double elements
and auto dust evacuator, plus dust indicator
EPA Tier 3 and EU Stage 3A emissions certified
Starting motor **4.5 kW/24 V**
Alternator **35 A/24 V**
Battery **110 Ah/2 x 12 V**

EPA Tier 3 and EU Stage 3A emissions certified.



HYDRAULICS SYSTEM

Type HydraulMind (Hydraulic Mechanical Intelligence New Design) system,
Closed-center system with load-sensing valve
and pressure-compensated valve

Main pump:
Type Variable capacity piston type
Pumps for Boom, arm, bucket, swing, and travel circuits
Maximum flow **428 ltr/min** 113 U.S. gal/min

Hydraulic motors:
Travel 2 x axial piston motor with parking brake
Swing 1 x axial piston motor with swing holding brake

Relief valve setting:
Implement, circuit **34.8 MPa 355 kgf/cm²** 5,050 psi
Travel circuit **37.3 MPa 380 kgf/cm²** 5,400 psi
Swing circuit **28.4 MPa 290 kgf/cm²** 4,120 psi
Pilot circuit **3.2 MPa 33 kgf/cm²** 470 psi

Hydraulic cylinders:
(Number of cylinders – bore x stroke)
Boom 2–**120 mm x 1385 mm** 4.7" x 54.5"
Arm 1–**135 mm x 1490 mm** 5.3" x 58.7"
Bucket 1–**115 mm x 1120 mm** 4.5" x 44.1"



SWING SYSTEM

Driven by Hydraulic motor
Swing reduction Planetary gear
Swing circle lubrication Grease-bathed
Swing lock Mechanical-disc brake
Swing speed 11.0 rpm



DRIVES AND BRAKES

Steering control Two levers with pedals
Drive method Fully hydrostatic
Maximum drawbar pull **202 kN 20600 kgf** 45,410 lbf
Maximum travel speed: High **5.5 km/h** 3.4 mph
Low **3.0 km/h** 1.9 mph
Service brake Hydraulic lock
Parking brake Mechanical-disc brake



UNDERCARRIAGE

Center frame X-leg frame
Track frame Box-section
Seal of track Sealed track
Track adjuster Hydraulic
Number of shoes 45 each side (PC228US-8)
49 each side (PC228USLC-8)
Number of carrier rollers 2 each side
Number of track rollers 7 each side (PC228US-8)
9 each side (PC228USLC-8)



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank **320 ltr** 84.5 U.S. gal
Radiator **21.0 ltr** 5.5 U.S. gal
Engine **23.1 ltr** 6.1 U.S. gal
Final drive, each side **5.2 ltr** 1.4 U.S. gal
Swing drive **7.1 ltr** 1.9 U.S. gal
Hydraulic tank **126.0 ltr** 33.3 U.S. gal



OPERATING WEIGHT (APPROXIMATE)

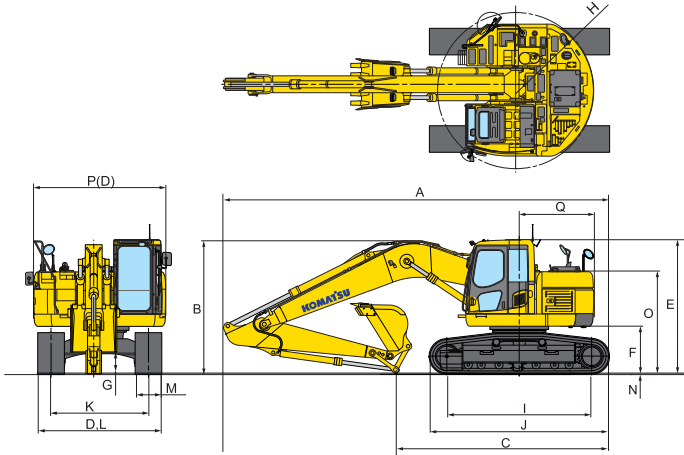
Operating weight including **5700 mm 18'8"** one-piece boom,
2925 mm 9'7" arm, SAE heaped **0.80 m³** 1.05 yd³ backhoe bucket,
rated capacity of lubricants, coolant, full fuel tank, operator, and
standard equipment.

Shoes	PC228US-8		PC228USLC-8	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
600 mm 24"	21900 kg 48,280 lb	50.0 kPa 0.51 kgf/cm² 7.25 psi	22830 kg 50,330 lb	47.5 kPa 0.48 kgf/cm² 6.83 psi
700 mm 28"	22280 kg 49,120 lb	44.0 kPa 0.45 kgf/cm² 6.40 psi	23100 kg 50,930 lb	41.2 kPa 0.42 kgf/cm² 5.97 psi
800 mm 31.5"	22530 kg 49,670 lb	39.0 kPa 0.40 kgf/cm² 5.69 psi	23380 kg 51,540 lb	36.5 kPa 0.37 kgf/cm² 5.26 psi



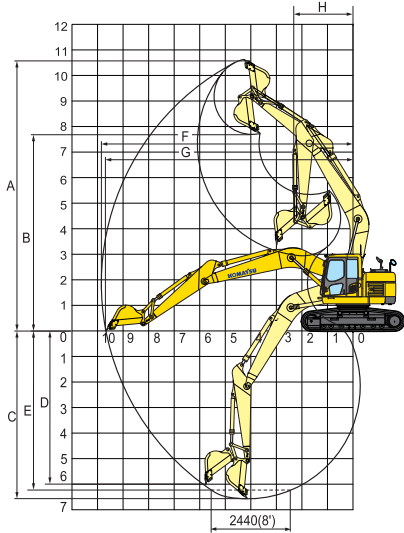
DIMENSIONS

		PC228US-8	PC228USLC-8
	Boom Length	5700 mm 18'8"	5700 mm 18'8"
	Arm Length	2925 mm 9'7"	2925 mm 9'7"
A	Overall length	8700 mm 28'7"	8890 mm 29'2"
B	Overall height (to top of boom)	2980 mm 9'9"	2980 mm 9'9"
C	Length on ground (transport)	4830 mm 15'10"	5020 mm 16'6"
D	Overall width	2800 mm 9'2"	3080 mm 10'1"
E	Overall height (to top of cab)	3050 mm 10'0"	3050 mm 10'0"
F	Ground clearance, counterweight	1060 mm 3'6"	1060 mm 3'6"
G	Minimum ground clearance	440 mm 1'5"	440 mm 1'5"
H	Tail swing radius	1680 mm 5'6"	1680 mm 5'6"
I	Length of track on ground	3275 mm 10'9"	3655 mm 12'0"
J	Track length	4070 mm 13'4"	4450 mm 14'7"
K	Track gauge	2200 mm 7'3"	2380 mm 7'10"
L	Width of crawler	2800 mm 9'2"	3080 mm 10'1"
M	Shoe width	600 mm 23.6"	700 mm 27.6"
N	Grouser height	26 mm 1"	26 mm 1"
O	Machine cab height	2285 mm 7'6"	2285 mm 7'6"
P	Machine cab width	2980 mm 9'9"	2980 mm 9'9"
Q	Distance swing center to rear end	1680 mm 5'6"	1680 mm 5'6"



WORKING RANGE

	Boom	5700 mm 18'8"
	Arm	2925 mm 9'7"
A	Maximum digging height	10700 mm 35'1"
B	Maximum dumping height	7825 mm 25'8"
C	Maximum digging depth	6620 mm 21'9"
D	Maximum vertical wall digging depth	5980 mm 19'7"
E	Maximum digging depth of cut for 2440 mm 8' level	6370 mm 20'11"
F	Maximum digging reach	9875 mm 32'5"
G	Maximum digging reach at ground	9700 mm 31'10"
H	Minimum swing radius	2310 mm 7'7"
ISO	Bucket digging force	149 kN 15200 kgf 33,510 lbf
	Arm crowd force	108 kN 11000 kgf 24,250 lbf
SAE	Bucket digging force	138 kN 14100 kgf 31,080 lbf
	Arm crowd force	101 kN 10300 kgf 22,710 lbf



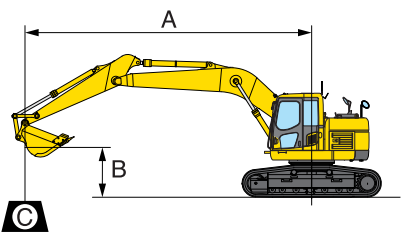
BACKHOE BUCKET AND ARM COMBINATION

Bucket Capacity (heaped)		Width		Weight	Number of Teeth	Arm Length 2925 mm 9'7"
SAE, PCSA	CECE	Without Side Cutters	With Side Cutters			
0.50 m³ 0.65 yd³	0.45 m³ 0.59 yd³	750 mm 29.5"	875 mm 34.4"	478 kg 1,050 lb	3	○
0.80 m³ 1.05 yd³	0.70 m³ 0.92 yd³	1045 mm 41.1"	1170 mm 46.1"	635 kg 1,400 lb	5	○
0.93 m³ 1.22 yd³	0.80 m³ 1.05 yd³	1200 mm 47.2"	1325 mm 52.2"	696 kg 1,530 lb	5	□
1.00 m³ 1.31 yd³	0.90 m³ 1.18 yd³	1330 mm 52.4"	1455 mm 57.3"	730 kg 1,610 lb	6	□

○—General digging □—Light-duty operation



LIFTING CAPACITY WITH LIFTING MODE



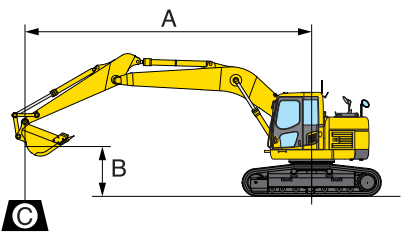
A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊗: Rating at maximum reach

Conditions:

- 5700 mm 18'8" one-piece boom
- 0.8 m³ 1.05 yd³ SAE heaped bucket
- Shoe width:
—PC228US-8 600 mm 24" triple grouser

PC228US-8		Arm: 2925 mm 9'7"		Bucket: 0.8 m³ 1.05 yd³ SAE heaped		Shoe: 600 mm 24" triple grouser					
B \ A	⊗ MAX		7.5 m 24'		6.0 m 19'		4.5 m 14'		3.0 m 9'		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
6.0 m 19'	*2820 kg *6,200 lb	2670 kg 5,900 lb	*3140 kg *6,900 lb	2670 kg 5,800 lb	*4290 kg *9,400 lb	4090 kg 9,000 lb					
4.5 m 14'	*2840 kg *6,200 lb	2220 kg 4,900 lb	4090 kg 9,000 lb	2620 kg 5,700 lb	*4950 kg *10,900 lb	3920 kg 8,600 lb	*5530 kg *12,200 lb	*5530 kg *12,200 lb			
3.0 m 9'	*3000 kg *6,600 lb	1980 kg 4,300 lb	3970 kg 8,700 lb	2510 kg 5,500 lb	5780 kg 12,700 lb	3690 kg 8,100 lb	*7820 kg *17,200 lb	5900 kg 13,000 lb	*11680 kg *25,700 lb	11430 kg 25,200 lb	
1.5 m 4'	3080 kg 6,800 lb	1880 kg 4,100 lb	3830 kg 8,400 lb	2380 kg 5,200 lb	5530 kg 12,100 lb	3460 kg 7,600 lb	8860 kg 19,500 lb	5400 kg 11,900 lb	*6880 kg *15,100 lb	*6880 kg *15,100 lb	
0 m 0'	3150 kg 6,900 lb	1910 kg 4,200 lb	3740 kg 8,200 lb	2290 kg 5,000 lb	5330 kg 11,700 lb	3280 kg 7,200 lb	8490 kg 18,700 lb	5080 kg 11,200 lb	*5230 kg *11,500 lb	*5230 kg *11,500 lb	
-1.5 m -4'	3430 kg 7,500 lb	2080 kg 4,600 lb	3690 kg 8,100 lb	2240 kg 4,900 lb	5220 kg 11,500 lb	3190 kg 7,000 lb	8340 kg 18,400 lb	4960 kg 10,900 lb	*9330 kg *20,500 lb	*9330 kg *20,500 lb	
-3.0 m -9'	4100 kg 9,000 lb	2510 kg 5,500 lb			5220 kg 11,500 lb	3180 kg 7,000 lb	8370 kg 18,400 lb	4990 kg 11,000 lb	*14890 kg *32,800 lb	9950 kg 21,900 lb	
-4.5 m -14'	5810 kg 12,800 lb	3570 kg 7,800 lb					8570 kg 18,900 lb	5160 kg 11,300 lb	*13590 kg *29,900 lb	10260 kg 22,600 lb	

* 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.



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

Conditions:

- 5700 mm 18'8" one-piece boom
- 0.8 m³ 1.05 yd³ SAE heaped bucket
- Shoe width:
—PC228USLC-8 700 mm 28" triple grouser

PC228USLC-8		Arm: 2925 mm 9'7"		Bucket: 0.8 m³ 1.05 yd³ SAE heaped		Shoe: 700 mm 28" triple grouser					
B A	⊗ MAX		7.5 m 24'		6.0 m 19'		4.5 m 14'		3.0 m 9'		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
6.0 m 19'	*2820 kg *6,200 lb	*2820 kg *6,200 lb	*3140 kg *6,900 lb	3130 kg 6,900 lb	*4290 kg *9,400 lb	*4290 kg *9,400 lb					
4.5 m 14'	*2840 kg *6,200 lb	2630 kg 5,800 lb	*4700 kg *10,300 lb	3080 kg 6,800 lb	*4950 kg *10,900 lb	4560 kg 10,000 lb	*5530 kg *12,200 lb	*5530 kg *12,200 lb			
3.0 m 9'	*3000 kg *6,600 lb	2370 kg 5,200 lb	5060 kg 11,100 lb	2970 kg 6,500 lb	*5990 kg *13,200 lb	4320 kg 9,500 lb	*7820 kg *17,200 lb	6880 kg 15,100 lb	*11680 kg *25,700 lb	*11680 kg *25,700 lb	
1.5 m 4'	*3290 kg *7,200 lb	2270 kg 5,000 lb	4920 kg 10,800 lb	2840 kg 6,200 lb	7030 kg 15,500 lb	4090 kg 9,000 lb	*9990 kg *22,000 lb	6370 kg 14,000 lb	*6880 kg *15,100 lb	*6880 kg *15,100 lb	
0 m 0'	*3800 kg *8,300 lb	2310 kg 5,000 lb	4820 kg 10,600 lb	2750 kg 6,000 lb	6870 kg 15,100 lb	3900 kg 8,600 lb	11020 kg 24,200 lb	6040 kg 13,300 lb	*5230 kg *11,500 lb	*5230 kg *11,500 lb	
-1.5 m -4'	4430 kg 9,700 lb	2510 kg 5,500 lb	4770 kg 10,500 lb	2700 kg 5,900 lb	6760 kg 14,900 lb	3810 kg 8,300 lb	10960 kg 24,100 lb	5920 kg 13,000 lb	*9330 kg *20,500 lb	*9330 kg *20,500 lb	
-3.0 m -9'	5290 kg 11,600 lb	3000 kg 6,600 lb			6750 kg 14,800 lb	3800 kg 8,300 lb	*10920 kg *24,000 lb	5940 kg 13,100 lb	*14890 kg *32,800 lb	11990 kg 26,400 lb	
-4.5 m -14'	*7030 kg *15,500 lb	4240 kg 9,300 lb					*9510 kg *20,900 lb	6120 kg 13,500 lb	*13590 kg *29,900 lb	12180 kg 26,800 lb	

* 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

- Air cleaner, double element with auto dust evacuator
- Auto air conditioner
- Auto deceleration
- Automatic de-airation system for fuel line
- Automatic engine warm-up system
- Alternator, 35 Ampere, 24 V
- Batteries, 110 Ah/2 x 12 V
- Boom holding valve
- Cab which includes: antenna, AM/FM radio, floor mat, intermittent front wind-shield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield, sliding door window, sliding seat
- Cooling fan, mixed flow with fan guard
- Counterweight, 6050 kg 13,300 lb
- Dustproof net for radiator and oil cooler
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-1
- Engine overheat prevention system
- Hydraulic track adjusters (each side)
- Multi-function color monitor
- Lights, 3 (boom and cab)
- Power maximizing system
- PPC hydraulic control system
- Pump/engine partition cover
- Rear reflector
- Rearview mirrors, RH, LH, rear, sidewise hatch, pull-up front window, removable lower windshield, sliding door window, sliding seat
- ROPS cab (ISO 12117-2)
- Slip-resistant Plates
- Starting motor 4.5 kW
- Suction fan
- Swing holding brake

- Track guiding guard, center section
- Track roller
—PC228US-8, 7 each side
—PC228USLC-8, 9 each side
- Track shoe
—PC228US-8, 600 mm 24" triple grouser
—PC228USLC-8, 700 mm 28" triple grouser
- Travel alarm
- Working mode selection system



OPTIONAL EQUIPMENT

- 12V power supply
- Alternator, 60A
- Arm, 2925 mm 9'7"
- Arm holding valve
- Batteries, large capacity
- Boom, 5700 mm 18'8"
- Cab accessories
—Rain visor
—Sun visor
- Cab front guard
—Full height guard
—Half height guard
- Dust proof net for machine cab
- Hydraulic control unit
—1 additional actuator
- KOMTRAX
- Rear view monitoring system
- Seat belt, retractable
- Seat, suspension
- Service valve
- Shoes, triple grouser
—PC228US-8:
700 mm 28", 800 mm 31.5"
—PC228USLC-8:
600 mm 24", 800 mm 31.5"
- Track roller guard (full length) for STD track
- Track frame undercover