HORSEPOWER

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

OPERATING WEIGHT 65700-67800 kg

144,840-149,470 lb

KOMATSU®

PC700LC-8R BACKHOE

PC 700 LC



Photo may include optional equipment.

WALK-AROUND

One-class higher undercarriage to support operations in severe jobsites, PC700LC-8R is a large-sized hydraulic excavator having both high stability and durability.

Productivity Features

- Large Drawbar Pull and Steering Force provide excellent mobility.
- High Work Equipment Speed
 Increased arm dumping speed and arm speed of compound operation by arm regeneration circuit realize efficient loading operation.
- Two-mode Setting for Boom
 Switch selection allows either powerful digging or smooth boom operation.
- Large Digging Force
 Pressing the Power Max function button temporarily increases the digging force 8%.
- New Design Large SE Bucket (optional for SE spec.)
 4.0m³ (5.2yd³) SE bucket is available.

See page 5.



Excellent Reliability and Durability

- Sturdy Undercarriage
 One-class higher undercarriage having high reliability and durability
- Simple Frame Structure (Swing Circle Mount)
- Sturdy Guards
- Strengthened SE Boom and SE Arm (SE spec.)
- Strengthened Quarry Bucket and 4.0m³ SE Bucket
- KMAX Tooth
- Removed Water and Contamination in Fuel
 - · Fuel pre-filter with water separator
 - · High efficiency fuel filter
 - · Water separator

- O-ring Face Seal
- High-pressure In-line Filtration
- Metal Guard Rings
- Highly Reliable Electronic Devices
 - Heat-resistant wiring
 - Circuit breaker
 - Sealed connectors

See pages 6, 7.

HORSEPOWER
Gross:323 kW 433 HP @ 1800 rpm

Net:320 kW 429 HP @ 1800 rpm

OPERATING WEIGHT

65700-67800 kg

144,840 - 149,470 lb

Ecology and Economy Features

• High Power Komatsu SAA6D140E-5 Engine

A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 provides **320 kW** 429 HP. This engine is U.S. EPA Tier 2 and EU Stage 2 emissions equivalent.

• Low 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

- Working modes selectable
- 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.

Large Liquid Crystal Display (LCD) Monitor

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

See page 10.



Photo may include optional equipment.

Working Environment

• Large Comfortable Cab

- Low-noise design cab
- Wide newly designed cab
- Pressurised cab
- Multi-position controls
- Low vibrations with cab damper mounting
- Automatic air conditioner (A/C) (optional)
- OPG top guard level 2 (ISO 10262) (optional)

See pages 8, 9.

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.

Hydraulic system controller Hydraulic control valve Hydraulic control valve Electronically controlled variable speed fan Engine High Pressure Common Rail (HPCR) system

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 HPCR 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. Also so, it effectively uses the engine output to prevent wasteful fuel consumption; and reduces noise during low-speed fan revolution.

Low Ambient Noise

Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan and low-noise muffler.

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.

L mode (Lifting mode) – gives 17% more lifting force when needed for handling rock of heavy lifting applications.

Economy Mode Four-level Setting

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.



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.



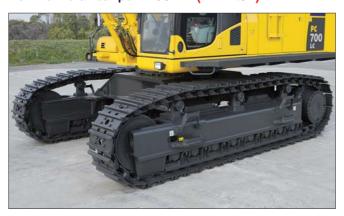
Auto Deceleration and Auto Idling System

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.

Large Drawbar Pull and Steering Force

The track length on ground is shorter than the PC600LC-8R1 for higher travel power. Slope climbing performance and trafficability are excellent with large steering force.

Maximum drawbar pull: 465 kN (47.4 ton)



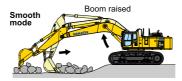
High Work Equipment Speed

Work equipment speed and arm compound operation speed becomes greater with an arm quick return circuit and arm regeneration circuit.



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.





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 6015):

272 kN (27.7 ton) → 293 kN (29.9 ton) 8% UP (with Power Max.)

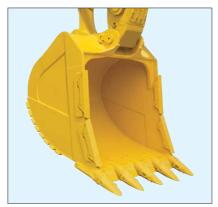
Maximum bucket digging force (ISO 6015):

336 kN (34.3 ton) → 362 kN (36.9 ton) 8% UP

New Design Large SE Bucket (optional for SE spec.)

Performance of scooping rocks and soil is improved by changing the shape of the bucket bottom.

Bucket capacity: 4.0 m³ (5.2 yd³)



^{*}Measured with Power Max function, 2900 mm 9'6" SE arm and ISO 6015 rating

RELIABILITY & DURABILITY FEATURES

Sturdy Undercarriage

Travel performance and durability are increased with a one-class higher sturdy undercarriage, even in severe mining and quarry jobsites. High reliability greatly reduces the undercarriage repair cost as well as improves the operating ratio.



Simple Frame Structure

The revolving frame mount and center frame mount on the swing circle are not welded structures so that force is transmitted directly to the thick plate of the frame without passing through any welds.

Strengthened Revolving Frame Underguard

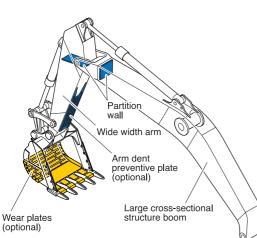
Guards the machine piping against being hit by rocks from below and prevents hydraulic components and the engine from being damaged.



Sturdy guards shield the travel motors and piping against damage from rocks.

Strengthened SE Boom and SE Arm (SE spec.)

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.



the bucket cylinder and front link are increased. With high reliability and durability, the operator can safely perform severe digging and loading work.

Reinforcement plate

Reinforcement plate

The sides of the SE boom and SE arm are strengthened and the pin diameters of

Strengthened Quarry Bucket and 4.0m³ SE Bucket (optional for SE spec.) Provide Outstanding Wear-resistance.

The PC700LC-8R has the bucket for specific use in quarry, this is strong in impact and wear, and providing high performance and long life. Komatsu KVX's hard materials* provide excellent wear-resistance. Combined with adoption of long-life KMAX tooth, durability of bucket is drastically enhanced.

* Komatsu KVX's hard materials: Komatsu KVX developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180 kg/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.)

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.





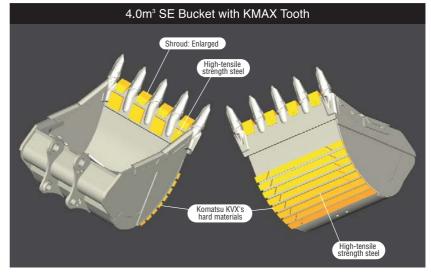
Fuel pre-filter

Fuel filter

Water Separator

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





High-pressure In-line Filtration

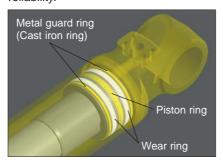
The PC700LC-8R has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.



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.



Sealed Connectors

Sealed connectors seal tight and have higher reliability.

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.

WORKING ENVIRONMENT





Photo may include optional equipment.

Low Noise Design Cab

The newly-designed 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 A/C allows the operator to work in quiet operating 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 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.



Seat with headrest reclined full flat

Pressurized Cab

Optional A/C, 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, Pressure Proportional Control (PPC) 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

PC700LC-8R 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.

Cab Equipments



Skylight



Defroster (optional)

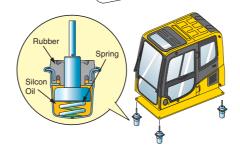
Automatic A/C (optional)

Enables you to easily and precisely set cab atmosphere with the instru-



ments on the large LCD. The automatic A/C uses a bi-level control function that 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 the front glass clear.





Sliding Window and Large Side Mirror



Bottle Holder and Magazine Rack

Cab Frame Mounted Wiper

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.

Slip-resistant Plates

Spiked plates on working areas provide slip-resistant 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)

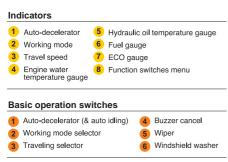
OPG top guard Level 2 (ISO 10262) capable with optional bolt-on top guard.

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 LCD that can easily be read at various angles and lighting conditions. The switches are simple and easy to operate. Function keys facilitate multifunction operations. Displays data in 12 languages to support operators around the world.





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	Maximum production/powerFast cycle time				
E (E0,E1,E2,E3)	Economy Mode	Good cycle time Good fuel economy				
L	Lifting Mode	Hydraulic pressure is increased 17%.				

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.



MAINTENANCE FEATURES

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 the turbocharger.



Long-life Oil, Filter

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



Hydraulic oil filter

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 and grease gun with indicator.



Steps Connected to the Machine Cab

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



Slip-resistant Plates

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

Wide Catwalk

Easier, safer operator cab access and maintenance checks.



Easy Cleaning of Cooling Unit

Reverse-rotation function of the hydraulic driven fan simplfies cleaning out 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.





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
Fan drive type

*Net horsepower at the maximum speed of radiator cooling fan is 288 kW 386HP. U.S. EPA Tier 2 and EU Stage 2 emissions equivalent.



HYDRAULIC SYSTEM

-6-	HYDRAULIC SYSTEM			
	Open-r of selectable working modes			
	ımp: Vari os forBoom, arm, buckı			
Maximu Main	ım flow: 2 x 410 lt	r/min	2 x 108 U.	S. gal/min
Fan driv	ve pumpVa	riable-d	capacity pis	ton pump
Trave	ic motors: el2 x axial pisto g2 x axial piston mot			•
Impler Ba Travel Swing	alve setting: nent circuits ckhoe 31.9 M circuit 34.3 M circuit 25.5 M ircuit 2.9 M	Pa 3:	25 kg/cm ² 50 kg/cm ² 60 kg/cm ² 30 kg/cm ²	4,980 psi 3,700 psi
,	ic cylinders: hber of cylinders—bore x stroke x	rod dia	meter)	

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
Maximum travel speed 2.8 km/h 1.7 mph Low. 2.8 km/h 1.7 mph High 4.6 km/h 2.9 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	leg frame
Track frame Bo	x-section
Seal of track	Sealed
Track adjuster	Hydraulic
No. of shoes	each side
No. of carrier rollers	each side
No. of track rollers	each side



COOLANT AND LUBRICANT CAPACITY (REFILLING)

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



OPERATING WEIGHT (APPROXIMATE)

PC700LC-8R

Operating weight, including **7660 mm** 25'2" boom, **3500 mm** 11'6" arm, SAE J 296 heaped **2.7 m³** 3.53 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC700LC-8R HD spec.:

Operating weight, including **7300 mm** 23'11" boom, **3500 mm** 11'6" arm, SAE J 296 heaped **2.8** m³ 3.66 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment

	PC700	LC-8R	PC700LC-8R HD spec.			
Shoes	Operating Weight			Ground Pressure		
Double grouser 610 mm 24"	65700 kg 144,840 lb 106.9 kPa 1.09 kg/cm² 15.5 psi		66200 kg 145,940 lb	107.9 kPa 1.10 kg/cm² 15.6 psi		
Double grouser 710 mm 28"	66500 kg 146,610 lb	93.2 kPa 0.95 kg/cm² 13.5 psi	67000 kg 147,710 lb	94.1 kPa 0.96 kg/cm ² 13.7 psi		

PC700LC-8R SE spec.:

Operating weight, including **6600 mm** 21'8" boom, **2900 mm** 9'6" arm, SAE J 296 heaped **3.5 m³** 4.58 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment

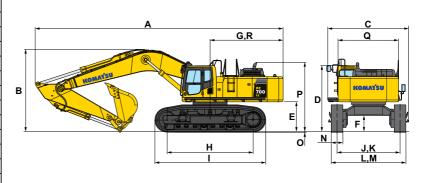
	PC700LC-8R SE spec					
Shoes	Operating Weight	Ground Pressure				
Double grouser 610 mm 24"	67000 kg 147,710 lb	108.9 kPa 1.11 kg/cm² 15.8 psi				
Double grouser 710 mm 28"	67800 kg 149,470 lb	95.1 kPa 0.97 kg/cm² 13.8 psi				



			PC700LC-8R								
			STD						HD		
	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"
Α	Overall length	12960 mm	42'6"	12930 mm	42'5"	12700 mm	41'8"	12580 mm	41'3"	11990 mm	39'4"
В	Overall height (to top of boom)	4350 mm	14'3"	4690 mm	15'5"	5230 mm	17'2"	4280 mm	14'1"	4670 mm	15'4"
С	Overall width	4290 mm	14'1"	4290 mm	14'1"	4290 mm	14'1"	4290 mm	14'1"	4290 mm	14'1"
D	Overall height (to top of cab)	3475 mm	11'5"	3475 mm	11'5"	3475 mm	11'5"	3595 mm*	11'10"*	3595 mm*	11'10"*

* with OPG top guard

Е	Ground clearance, counterweight	1550 mm	5'1"
F	Ground clearance (minimum)	830 mm	2'9"
G	Tail swing radius	3950 mm	13'0"
Н	Track length on ground	4500 mm	14'9"
Ι	Track length	5810 mm	19'1"
J	Track gauge	2590 mm	8'6"
K	Track gauge when expanded	3300 mm	10'10"
L	Width of crawler	3200 mm	10'6"
M	Width of crawler when expanded	3910 mm	12'10"
N	Shoe width	610 mm	24"
0	Grouser height	50 mm	2.0"
Р	Machine cab height	3620 mm	11'11"
Q	Machine cab width	3170 mm	10'5"
R	Distance, swing center to rear end	3825 mm	12'7"





Unit: mm ft in

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			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"
Α	Max. digging height	12085 39'8"	12390 40'8"	12750 41'10"	11680 38'4"	11350 37'3"
В	Max. dumping height	8120 26'8"	8425 27'8"	8790 28'10"	7810 25'7"	7360 24'2"
С	Max. digging depth	8325 27'4"	9115 29'11"	10045 32'11"	8010 26'3"	6910 22'8"
D	Max. vertical wall digging depth	7340 24'1"	7730 25'4"	8620 28'3"	6480 21'3"	5470 17'11"
E	Max. digging depth of cut for 8' level	8190 26'10"	8995 29'6"	9940 32'7"	7880 25'10"	6765 22'2"
F	Max. digging reach	13030 42'9"	13760 45'2"	14630 48'0"	12640 41'6"	11585 38'0"
G	Max. digging reach at ground level	12785 41'11"	13520 44'4"	14405 47'3"	12380 40'7"	11295 37'1"
Н	Min. swing radius	5370 17'7"	5385 17'8"	5510 18'1"	5090 16'8"	4670 15'4"
Bud	cket digging force (SAE J 1179)		289 kN 29500 kg 65,040 lb			
	cket digging force lower max. (SAE J 1179)		312 kN 31770 kg 70,040 lb			
Arm	n crowd force (SAE J 1179)	222 kN 22600 kg 49,820 lb	194 kN 19800 kg 43,650 lb	170 kN 17300 kg 38,140 lb	222 kN 22600 kg 49,820 lb	260 kN 26500 kg 58,420 lb
	n crowd force	238 kN	209 kN	182 kN	238 kN	280 kN
at p	ower max. (SAE J 1179)	24300 kg 53,570 lb	21300 kg 46,960 lb	18600 kg 41,010 lb	24300 kg 53,570 lb	28500 kg 62,830 lb
Buc	cket digging force (ISO 6015)		294 3000 66,1		336 kN 34300 kg 75,620 lb	
	cket digging force lower max. (ISO 6015)		317 3230 71,2	10 kg		362 kN 36900 kg 81,350 lb
Arm	n crowd force (ISO 6015)	228 kN 23300 kg 51,370 lb	202 kN 20600 kg 45,410 lb	176 kN 17900 kg 39,460 lb	228 kN 23300 kg 51,370 lb	272 kN 27700 kg 61,070 lb
Arm crowd force at power max. (ISO 6015)		246 kN 25100 kg 55,340 lb	218 kN 22200 kg 48,940 lb	189 kN 19300 kg 42,550 lb	246 kN 25100 kg 55,340 lb	293 kN 29900 kg 65,920 lb

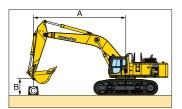
BACKHOE BUCKET AND ARM COMBINATION

Bud	cket Capac	ity (heap	ed)			Wic	dth							
SAE J 29 m³	96, PCSA yd³	CE(CE yd³	With shrouds, si mm			ut side ide cutters in	Bucket lip width mm in	Weight (with side shrouds, side cutters) kg lb		Tooth	Arm Length m ft in		
use wi	th 7.66m 2	25'2" boo n	n									3.5 11'6"	4.3 14'1"	5.2 17'1"
2.0 2.3 2.7	2.62 3.01 3.53	1.8 2.0 2.4	2.35 2.62 3.14	1430 1580 1780	56.3" 62.2" 70.1"	1250 1400 1600	49.2" 55.1" 63.0"	_ _ _	2130 2260 2470	4,700 4,980 5,450	KMAX KMAX KMAX	000	001	<u> </u>
use wi	th 7.3m 23	3'11" HD b	oom									3.5 11'6" HD arm		
2.8 3.1	3.66 4.05	2.5 2.8	3.27 3.66	1725 1850	68.0" 72.9"	1655 1780	65.2" 70.1"	1920 75.6" 2040 80.3"	3100 3230	6,840 7,120	KMAX KMAX		0	
use wi	use with 6.6m 21'8" SE boom								2.9 9'6" SE arm					
3.5 4.0	4.58 5.23	3.1 3.5	4.05 4.58	1950 1960	76.8" 77.2"	1900 1910	74.9" 75.3"	2110 83.1" 2110 83.1"	3330 3440	7,340 7,580	KMAX KMAX		0	

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

 $\bigcirc\,$: General purpose use, density up to 1.8 t/m³ 3,000 lb/yd³ $\,$ — : Not useable





PC700LC-8R

- 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 ³ 3.53cu.yd, Shoes: 610mm 24" triple, L mode: "ON"												unit: kg l b
A	€ M.	ΑX	9.1m	29'	7.6m	m 24' 6.1m 20'		4.6m 15'		3.0m 9'		
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m	*8550	*8550										
29'	*18,900	*18,900										
6.1m	*8450	*8450	*12250	11950	*13500	*13500						
20'	*18,600	*18.600	*27,000	22,300	*29,700	*29,700						
3.0m	9300	7700	*14150	11100	*17000	14900	*22100	21250				
9'	20,500	17,000	*31,200	24,500	*37,500	32,900	*48,700	46,800				
0m	10550	7700	14200	10400	18950	13850	*25100	19500	*20150	*20150		
0'	23,300	17,000	31,300	22,900	41,800	30,500	*55,300	43,000	*44,400	*44,400		
-3.0m	12500	9150	14000	10250	*18600	13550	*23650	19300	*30400	*30400	*17400	*17400
-9'	27,600	20,000	30,900	22,500	*41,000	29,900	*52,100	42,500	*67,100	*67,100	*38,300	*38,300
-6.1m	*12350	*12350			*11150	*11150	*16350	*16350	*20650	*20650		
-20'	*27,300	*27,300			*24,600	*24,600	*36,000	*36,000	*45,600	*45,600		

Boom : 7.3m											unit: kg l b	
A	€ M	AX	9.1n	9.1m 29'		7.6m 24'		6.1m 20'		า 15'	3.0m 9'	
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m	*8150	*8150										
29'	*17,900	*17,900										
6.1m	*7950	*7950	*12150	11550	*13200	*13200						
20'	*17,600	*17,600	*26,800	25,400	*29,100	*29,100						
3.0m	*8900	7900	*13950	10800	*16700	14750	*21550	*21050	*26500	*26500		
9'	*19,700	17,400	*30,700	23,800	*36,800	32,500	*47,500	*46,400	*58,400	*58,400		
0m	10950	7900	13950	10150	18800	13650	*24850	19500	*17800	*17800		
0'	24,100	17,500	30,700	22,300	41,500	30,100	*54,800	43,000	*39,300	*39,300		
-3.0m	13250	9650	13800	10000	*18150	13350	*23450	19200	*30700	*30700	*23750	*23750
-9'	29,300	21,200	30,400	22,100	*40,100	29,500	*51,700	42,300	*67,700	*67,700	*52,400	*52,400
-6.1m	*12450	*12450					*14750	*14750	*19500	*19500		
-20'	*27,400	*27,400					*32,600	*32,600	*43,000	*43,000		

Boom : 6.6m	Boom : 6.6m 21'8", Arm : 2.9m 9'6", Bucket : 3.5m³ 4.58cu.yd, Shoes : 610mm 24" triple, L mode: " 0N"											unit: kg l b
A	€ M	4Χ	9.1n	า 29'	7.6m	7.6m 24'		6.1m 20'		า 15'	3.0m 9'	
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1m	*11800	*11800										
29'	*26,000	*26,000										
6.1m	*10950	*10950	*10750	*10750	*14500	*14500						
20'	*24,100	*24,100	*23,700	*23,700	*32,000	*32,000						
3.0m	*11950	9450	14500	10600	*17450	14600	*22300	21350	*30100	*30100		
9'	*26,300	20,800	31,900	23,400	*38,400	32,100	*49,200	47,000	*66,300	*66,300		
0m	13150	9550	13900	10100	18850	13650	*24900	19650	*26550	*26550		
0'	29,000	21,000	30,600	22,200	41,600	30,100	*54,900	43,300	*58,500	*58,500		
-3.0m	*14550	12300			*16600	13550	*22300	19450	*29300	*29300	*27200	*27200
-9'	*32,100	27,100			*36,600	29,900	*49,100	42,900	*64,600	*64,600	*60,000	*60,000

^{*}Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

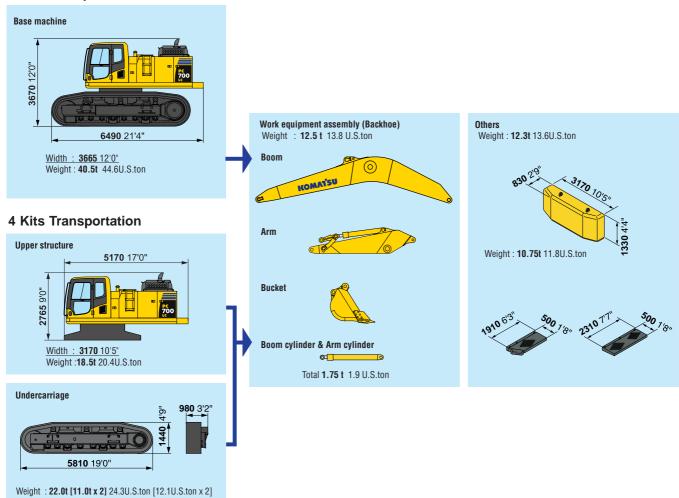
Transportation specifications (length x height x width)

Backhoe

Specs shown include the following equipment:

	Boom	Arm	Bucket	Shoes		
PC700LC-8R	7660 mm 25'2"	3500 mm 11'6"	2.7 m³ 3.53 yd³	610 mm 24" Double		
PC700LC-8R (HD spec.)	7300 mm 23'11"	3500 mm 11'6"	2.8 m³ 3.66 yd³	610 mm 24" Double		
PC700LC-8R (SE spec.)	6600 mm 21'8"	2900 mm 9'6"	3.5 m³ 4.58 yd³	610 mm 24" Double		

3 Kits Transportation



Work Equip	Length mm ft in	Height mm ft in	Width mm ft in	Weight ton US ton	
	Boom	7920 26'0"	2040 6'8"	1190 3'11"	4.9 5.4
PC700LC-8R	Arm	4870 16'0"	1210 16'0"	650 2'2"	3.3 3.6
	Bucket	2150 7'1"	1780 5'8"	1780 5'10"	2.5 2.8
	Boom	7530 24'8"	1960 6'5"	1190 3'11"	4.7 5.2
PC700LC-8R (HD spec.)	Arm	4870 16'0"	1240 4'0"	650 2'2"	3.3 3.6
	Bucket	2150 7'1"	1780 5'10"	1920 6'4"	3.1 3.4
PC700LC-8R (SE spec.)	Boom	6870 22'6"	2090 6'10"	1190 3'11"	4.8 5.3
	Arm	4230 13'10"	1490 4'11"	650 2'2"	3.5 3.9
	Bucket	2150 7'1"	1780 5'8"	2040 6'8"	3.4 3.7

ENGINE AND RELATED ITEMS:

- Air cleaner, double element, dry
- Engine, Komatsu SAA6D140E-5
- Variable speed cooling fan, with fan guard

ELECTRICAL SYSTEM:

- Alternator, 24 V/50 A
- Auto decelerator and auto idling system
- Batteries, 2 x 12 V/170 Ah
- 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)
- 610 mm 24" double grouser
- Rock protectors
- 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, floormat, 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), level check lights (coolant and engine oil level) and self-diagnostic system with trouble data memory
- Rear view mirror (RH and LH)
- Seat, fully adjustable with suspension

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 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:

- · 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
- Slip-resistant plates
- Travel alarm
- Water separator



OPTIONAL EQUIPMENT

- 12 V electric supply
- Alternator, 24 V/90 A
- · 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 A/C
- 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 level 2 (ISO 10262)
- Cab with fixed front window
- · Electric pump, grease gun with indicator
- Fire extinguisher
- Full length track roller guard
- General tool kit
- Interconnected horn and warning light
- Large-capacity batteries
- Lower wiper
- OPG top guard level 2 (ISO 10262)
- Radio AM/FM
- Rain visor
- Rear view monitoring system

- Seat belt **78 mm** 3", **50 mm** 2"
- Service valve
- Shoes:
 - -710 mm 28" double grouser
 - -810 mm 32" double grouser
- 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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