

KOMATSU®

PC700LC-8R BACKHOE

PC
700

HORSEPOWER

Gross: 323 kW 433 HP / 1800 min⁻¹

Net: 320 kW 429 HP / 1800 min⁻¹

OPERATING WEIGHT

Backhoe: 65700 – 67800 kg

BUCKET CAPACITY

Backhoe: 2.00 – 4.00 m³



Photos may include optional equipment.

WALK-AROUND



PRODUCTIVITY, ECOLOGY & ECONOMY

- High Power Komatsu SAA6D140E-5 Engine
- Economy Mode Four-level Setting
- Low Ambient Noise
- Working Mode Selection
- Lifting Mode
- Large Digging Force
- High Work Equipment Speed
- Large Drawbar Pull and Steering Force
- Two-mode Setting for Boom

RELIABILITY & DURABILITY

- Boom Foot Hoses
- O-ring Face Seals
- Removed Water and Contamination in Fuel
- High-pressure In-line Filtration
- Highly Reliable Electronic Devices
- KMAX Bucket Teeth

COMFORT & SAFETY

- Large Comfortable Cab
- OPG Top Guard Level 2 (ISO 10262)
- Rear View Monitor System (Optional)

* Information and Communication Technology

ICT* & KOMTRAX

- Large Liquid Crystal Display (LCD) Monitor
- Equipment Management Monitoring System
- KOMTRAX

MAINTENANCE

- Easy Checking and Maintenance of Engine
- Easy Cleaning of Cooling Unit
- Large Handrail, Step and Catwalk



Photo may include optional equipment.

PC700LC-8R BACKHOE

HORSEPOWER	Gross:	323 kW 433 HP / 1800 min ⁻¹
	Net:	320 kW 429 HP / 1800 min ⁻¹

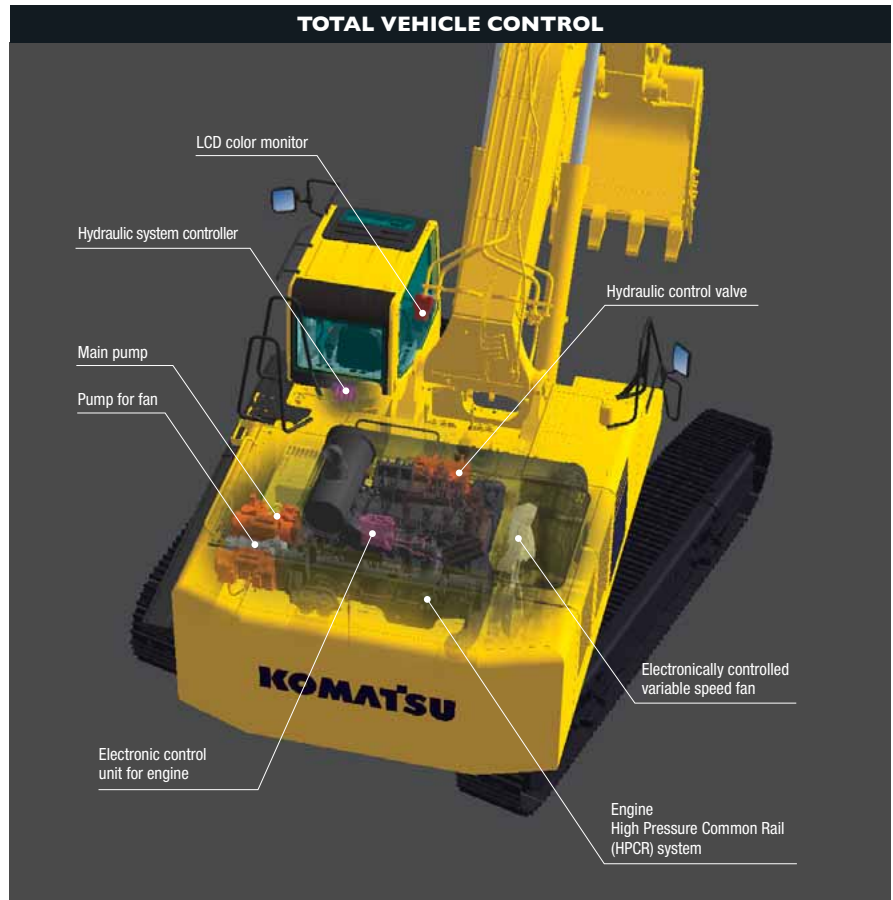
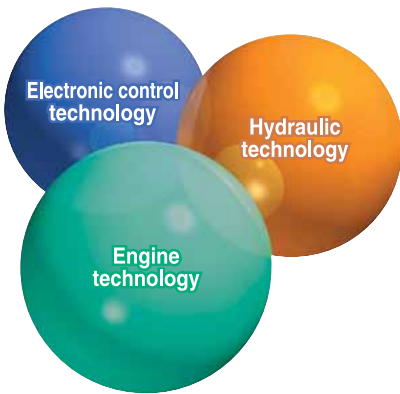
OPERATING WEIGHT	65700 – 67800 kg
-------------------------	------------------

BUCKET CAPACITY	2.00 – 4.00 m ³
------------------------	----------------------------

PRODUCTIVITY & ECOLOGY

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-5 Engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides 320 kW 429 HP. This Komatsu SAA6D140E-5 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; effectively uses the engine output to prevent wasteful fuel consumption; and reduces noise during low-speed fan revolution.

Lower and Economical Fuel Consumption Using Economy Mode

Enables operator to set the Economy mode to four levels according to working conditions so that production requirement is achieved at lowest fuel consumption.



Low Ambient Noise

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

ECO Gauge that Assists Energy-saving Operations

ECO gauge is equipped for environment friendly energy-saving operations. Focus on operation in the green range allows reduction of 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

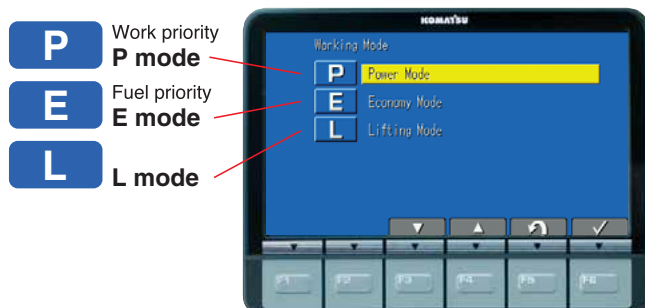
Auto deceleration system is equipped to reduce fuel consumption and operating noise. Also, engine idling speed can be reduced on the monitor with the auto idling system.

Working Modes Selectable

P and E modes established work modes are further improved.

P mode – Power or work priority mode has low fuel consumption, but fast equipment speed and maximum production and power are maintained.

E mode – Economy or fuel saving mode further reduces fuel consumption, but maintains the P-mode-like working equipment speed for light duty work.



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

Lifting Mode

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

Large Digging Force

With the one-touch Power Max. function digging force is further increased. (Approx. 8.5 seconds of operation)

Maximum arm crowd force (ISO 6015):

272 kN (27.7 t) ➔ **293 kN (29.9 t)** **8.0 % UP**
(With Power Max.)

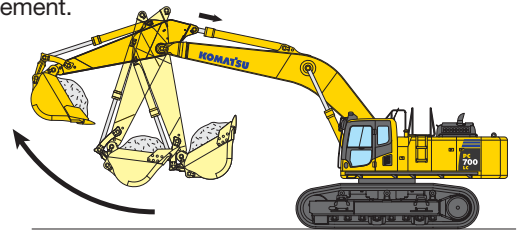
Maximum bucket digging force (ISO 6015):

336 kN (34.3 t) ➔ **362 kN (36.9 t)** **8.0 % UP**
(With Power Max.)

Measured with Power Max. function, 2900 mm arm and ISO 6015 rating.

Work Equipment Speed

An arm quick return circuit is provided for arm dumping. This returns a portion of oil flow directly to the hydraulic tank at arm dumping to reduce the hydraulic pressure loss. Speedier loading work can be accomplished by work equipment with quicker movement.

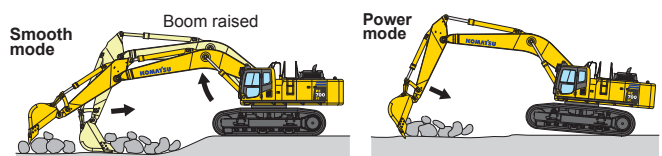


Large Drawbar Pull and Steering Force

Since the machine has a large drawbar pull and a high steering force, it demonstrates excellent mobility even when it is on inclined sites.

Two-mode Setting for Boom

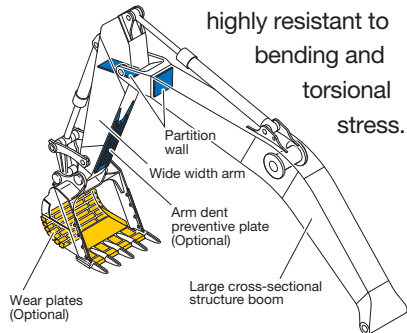
Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to power mode for more effective excavating.



RELIABILITY & DURABILITY

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



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.

High Efficiency Fuel Filter

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



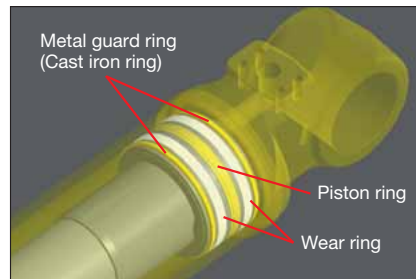
High-pressure In-line Filtration

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.



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

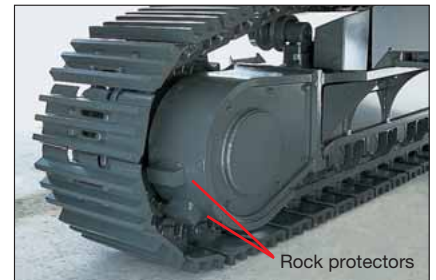
Removes water from the fuel and improves the reliability of fuel systems.



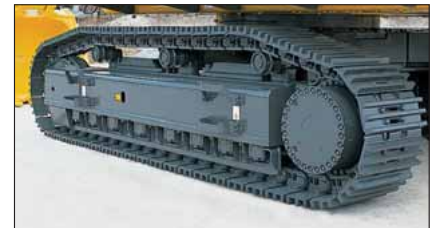
Sturdy Undercarriage

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

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



Full length track roller guard (Optional)



Strengthened Revolving Frame Underguard

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

Sealed Connectors

Sealed connectors seal tight and have higher reliability.

Circuit Breaker

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



Strengthened Quarry Bucket Provides Outstanding Wear-resistance (Optional)

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 K VX's hard materials* provide excellent wear resistance. Combined with adoption of long-life KMAX tooth, durability of bucket is drastically enhanced.

* Komatsu K VX's hard materials:

Komatsu 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 for Quarry Bucket

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

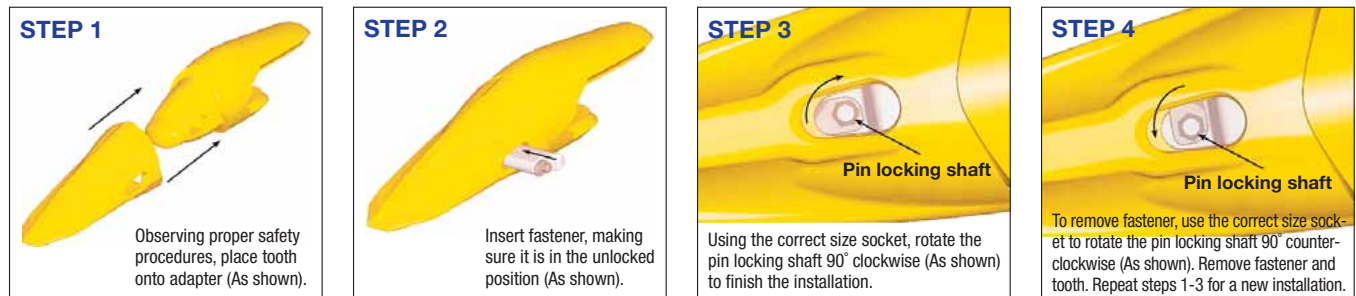
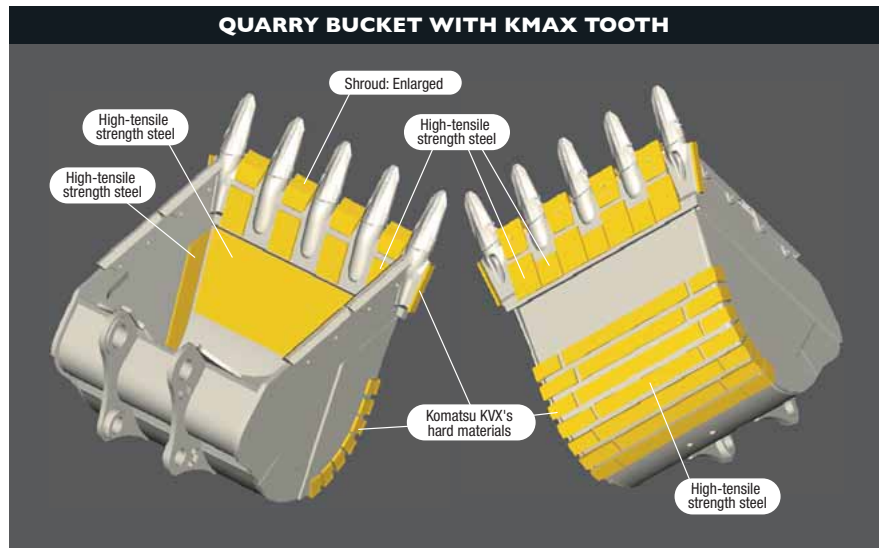


Photo may include optional equipment.

COMFORT



Wide Newly-designed Cab

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



Seat with headrest reclined full flat

Low Noise Design Cab

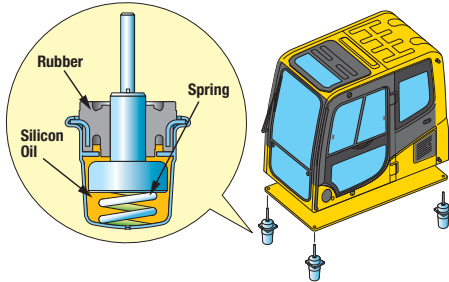
The newly-designed cab is highly rigid and has excellent sound absorption ability. Thorough improvement of noise source reduction and use of low noise engine, hydraulic equipment, and optional air conditioner (A/C) allows the operator to work in quiet condition.

Pressurized Cab

Optional A/C, air filter and a higher internal air pressure minimize external dust from entering the cab.

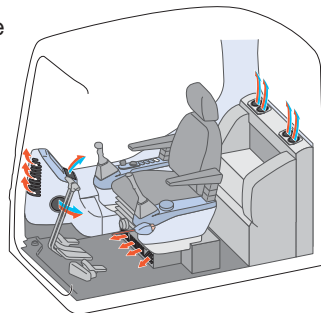
Low Vibration with Cab Damper Mounting

PC700LC-8R uses viscous damper mounting for cab that incorporates longer stroke and the addition of a spring. The cab damper mounting combined with high rigidity deck aids vibration reduction at operator seat.



Automatic A/C (Optional)

Enables you to easily and precisely set cab atmosphere with the instruments on the 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.



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

Cab Equipments



Skylight



Sliding window and large side mirror



Defroster (Optional)



Cab frame mounted wiper



Bottle holder and magazine rack

SAFETY

Step Light with Timer (Optional)

provides light for about one minute to allow the operator to get off the machine safely.



Horn Interconnected with Flashing Light (Optional)

gives visual and audible notice of the excavator's operation when activated.

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.

Rear View Monitor System (Optional)

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



Pump/Engine Room Partition

prevents oil from spraying on the engine if a hydraulic hose should burst.



OPG Top Guard (Optional)

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

LARGE LCD COLOR MONITOR



Basic operation switches

Function switches

A/C operation switches

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 multi-function operations. Displays data in 12 languages to support operators around the world.

Indicators

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

Basic operation switches

- | | |
|------------------------------------|---------------------|
| 1 Auto-decelerator (& auto idling) | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper |
| 3 Traveling selector | 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%.

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

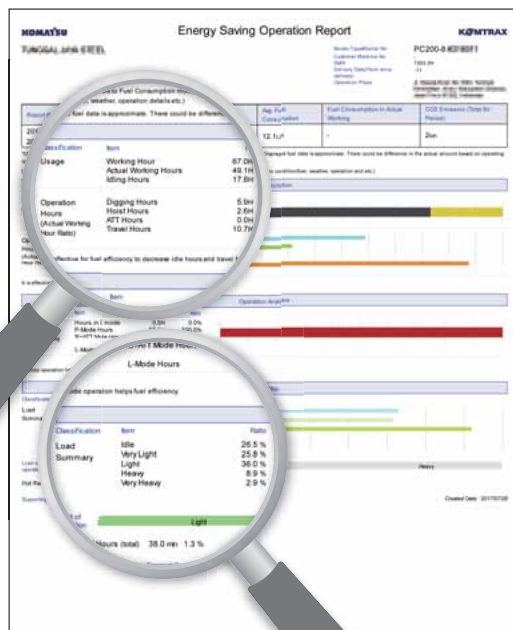
Monitor stores abnormalities for effective troubleshooting.

KOMTRAX**KOMTRAX**

The Komatsu remote monitoring and management technology provides insightful data about your equipment and fleet in user-friendly format.

Energy Saving Operation Report

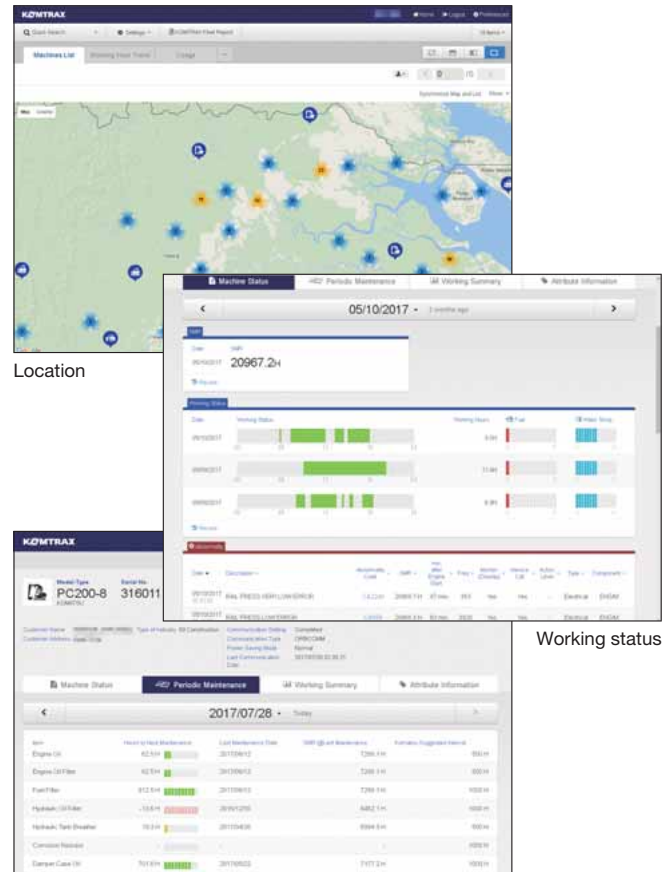
KOMTRAX delivers the energy-saving operation report based on the operating information such as fuel consumption, load summary and idling time, which helps you efficiently run a business.



This report image is an example of hydraulic excavator

Equipment Management Support

Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors. Moreover, KOMTRAX finds out machines with problems from your fleet and shows you through an optimal interface.



Periodic maintenance

The report contents and data depend on the machine model.

Optimal Strategy for Efficient Work

The detailed information that KOMTRAX puts at your fingertips helps you manage your fleet conveniently on the web anytime, anywhere. It gives you the power to make better daily and long-term strategic decisions.



MAINTENANCE

Easy Checking and Maintenance of Engine

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



Long-life Oil, Filter

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



Hydraulic oil filter

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

Electric Pump, Grease Gun with Indicator (Optional)

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



Indicator

Grease gun

Wide Catwalk

Easier, safer operator cab access and maintenance checks.



Slip-resistant Plates

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

Easy Cleaning of Cooling Unit

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



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.



KOMATSU BRAND BUCKET

KOMATSU Brand Bucket

Me Bucket Feature

- Low resistant excavation
- High productivity
- High durability
- High fuel efficiency



Conventional



Me bucket

Category and Feature

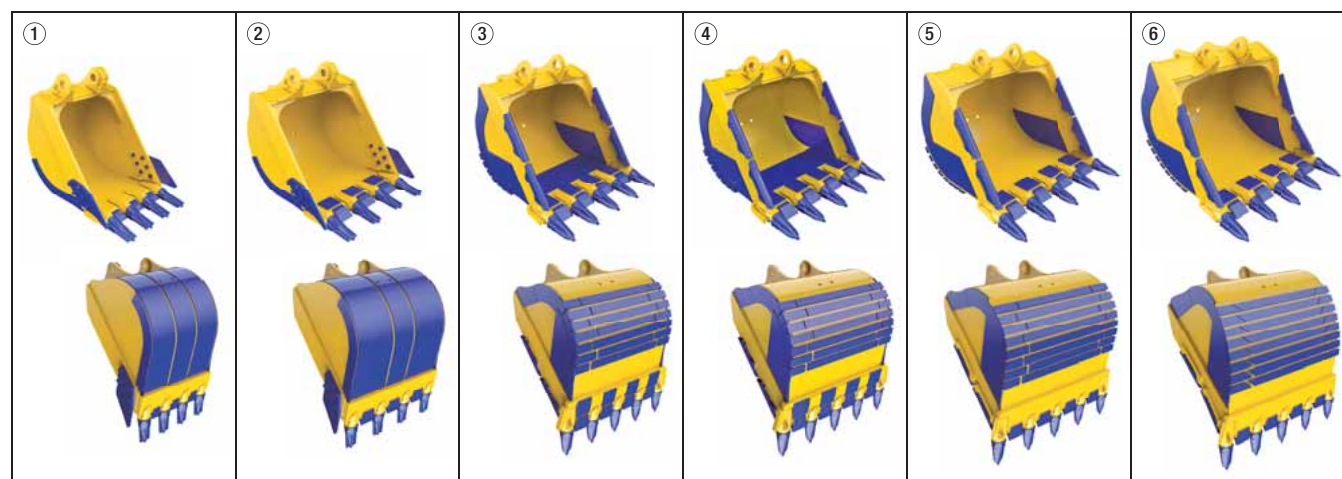
Category	Load / Wear / Soil (Application)	Image
Heavy Duty HD	Load Machine power is high during majority of the work. Medium, but continuous shock load Wear Material is abrasive. Light scratch marks can be seen at the bucket. Soil Limestone, shot rock, compact mix of sand, gravel and clay	
General Purpose GP	Load Machine power is mostly medium, but occasionally high. Bucket movements are smooth with minor shock load. Bucket penetrates easily. Wear Material is lightly abrasive. Some sand may be medium abrasive. Soil Mostly loose sand, gravel and finely broken materials	

Bucket Line-up

Bucket Type	Capacity (m ³) (ISO 7451)	Width* ¹ (mm)	Weight* ² (kg)	Tooth Quantity	Boom + Arm (m)					Tooth Type	Photo No.
					STD				SE		
					7.66+3.5	7.66+4.3	7.66+5.2	7.3+3.5HD	6.6+2.9	KMAX	
Conventional	2.00	1430<1250>[—]	2130	4	○	○	○	—	—	✓	①
	2.70	1780<1600>[—]	2470	4	○	—	—	—	—	✓	②
	2.80	1725<1655>[1920]	3100	5	—	—	—	○	—	✓	③
	3.10	1850<1780>[2040]	3230	5	—	—	—	○* ³	—	✓	④
	3.50	1950<1900>[2110]	3330	5	—	—	—	—	○	✓	⑤
	4.00	1960<1910>[2110]	3440	5	—	—	—	—	○	✓	⑥

*1 With side cutters or side shrouds, < > without side cutters or side shrouds, [] bucket lip width *2 With side cutters *3 Available only to LC crawler

○: General purpose use, density up to 1.8 t/m³ ✓: Selectable



SE SPEC.

PC700LC-8R SE spec. is equipped with a large bucket. It increases the efficiency of loading a dump truck with large amounts of loose materials.



Photo may include optional equipment.

OPTIONS

- OPG top guard level 2 (ISO 10262)



- Interconnected horn with flashing light



- Strengthened track frame undercover

KOMATSU TOTAL SUPPORT**Komatsu Total Support**

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

Fleet recommendation

Komatsu Distributor can study the customer's job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.

**Product support**

Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

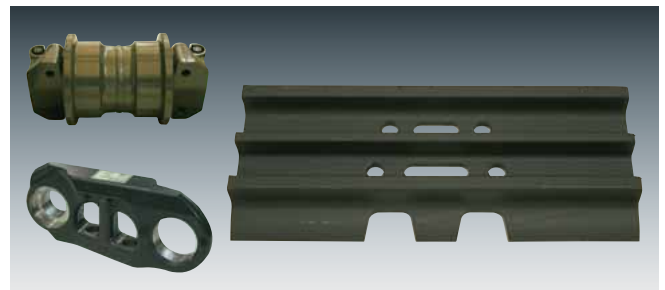
Parts availability

Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support

Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.

- Preventive Maintenance (PM) clinic
- Oil & Wear analysis program
- Undercarriage inspection service, etc.

**Repair & maintenance service**

Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components

Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu's customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).



SPECIFICATIONS



ENGINE

Model Komatsu SAA6D140E-5
 Type Water-cooled, 4-cycle, direct injection
 Aspiration Turbocharged, aftercooled
 Number of cylinders 6
 Bore 140 mm
 Stroke 165 mm
 Piston displacement 15.24 L
 Governor All-speed, electronic
 Horsepower:
 SAE J1995 Gross 323 kW 433 HP
 ISO 9249 / SAE J1349* Net 320 kW 429 HP
 Rated rpm 1800 min⁻¹
 Fan drive type Hydraulic

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



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 L/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
 Travel circuit 34.3 MPa 350 kgf/cm²
 Swing circuit 25.5 MPa 260 kgf/cm²
 Pilot circuit 2.9 MPa 30 kgf/cm²
 Hydraulic cylinders:
 (Number of cylinders—bore x stroke x rod diameter)
 Boom 2 – 185 mm x 1725 mm x 120 mm
 Arm
 Std 1 – 200 mm x 2045 mm x 140 mm
 SE 1 – 200 mm x 2045 mm x 140 mm
 Bucket
 Std 1 – 185 mm x 1425 mm x 130 mm
 SE 1 – 185 mm x 1610 mm x 130 mm



DRIVES AND BRAKES

Steering control Two levers with pedals
 Drive method Hydrostatic
 Travel motor Axial piston motor, in-shoe design
 Reduction system Planetary triple reduction
 Maximum drawbar pull 465 kN 47400 kgf
 Gradeability 70%
 Maximum travel speed
 Low 2.8 km/h
 High 4.6 km/h
 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 min⁻¹



UNDERCARRIAGE

Center frame H-leg frame
 Track frame Box-section
 Seal of track Sealed
 Track adjuster Hydraulic
 No. of shoes 47 each side
 No. of carrier rollers 3 each side
 No. of track rollers 8 each side



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank 880 L
 Radiator 58 L
 Engine 40 L
 Final drive, each side 10 L
 Swing drive 2 x 13 L
 Hydraulic tank 360 L



OPERATING WEIGHT (APPROXIMATE)

PC700LC-8R:
 Operating weight, including 7660 mm boom, 3500 mm arm, ISO 7451 heaped 2.70 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC700LC-8R HD Spec.:
 Operating weight, including 7300 mm boom, 3500 mm arm, ISO 7451 heaped 2.80 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	PC700LC-8R		PC700LC-8R HD Spec.	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Double Grouser 610 mm	65700 kg	106.9 kPa 1.09 kgf/cm ²	66200 kg	107.9 kPa 1.10 kgf/cm ²
Double Grouser 710 mm	66500 kg	93.2 kPa 0.95 kgf/cm ²	67000 kg	94.1 kPa 0.96 kgf/cm ²

PC700LC-8R SE Spec.:
 Operating weight, including 6600 mm boom, 2900 mm arm, ISO 7451 heaped 3.50 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	PC700LC-8R SE Spec.	
	Operating Weight	Ground Pressure
Double Grouser 610 mm	67000 kg	108.9 kPa 1.11 kgf/cm ²
Double Grouser 710 mm	67800 kg	95.1 kPa 0.97 kgf/cm ²

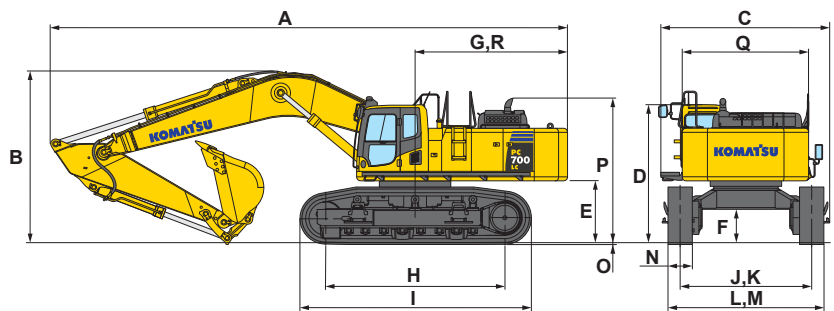


DIMENSIONS

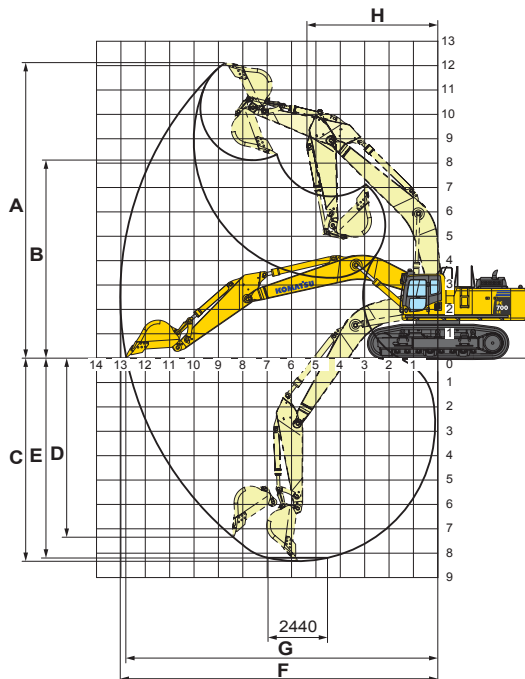
Model		PC700LC-8R				
		STD			HD	SE
Boom Length		7660 mm	7660 mm	7660 mm	7300 mm	6600 mm
Arm Length		3500 mm	4300 mm	5200 mm	3500 mm	2900 mm
A	Overall length	12960 mm	12930 mm	12700 mm	12580 mm	11990 mm
B	Overall height (To top of boom)	4350 mm	4690 mm	5230 mm	4280 mm	4670 mm
C	Overall width	4290 mm	4290 mm	4290 mm	4290 mm	4290 mm
D	Overall height (To top of cab)	3475 mm	3475 mm	3475 mm	3595 mm*	3595 mm*

E	Ground clearance, counterweight	1550 mm
F	Ground clearance (Minimum)	830 mm
G	Tail swing radius	3950 mm
H	Track length on ground	4500 mm
I	Track length	5810 mm
J	Track gauge	2590 mm
K	Track gauge when expanded	3300 mm
L	Width of crawler	3200 mm
M	Width of crawler when expanded	3910 mm
N	Shoe width	610 mm
O	Grouser height	50 mm
P	Machine cab height	3620 mm
Q	Machine cab width	3170 mm
R	Distance, swing center to rear end	3825 mm

* With OPG top guard



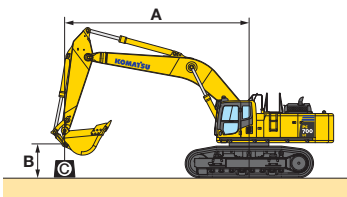
WORKING RANGE



Model		PC700LC-8R				
		STD			HD	SE
Boom Length		7660 mm	7660 mm	7660 mm	7300 mm	6600 mm
Arm Length		3500 mm	4300 mm	5200 mm	3500 mm	2900 mm
A	Max. digging height	12085 mm	12390 mm	12750 mm	11680 mm	11350 mm
B	Max. dumping height	8120 mm	8425 mm	8790 mm	7810 mm	7360 mm
C	Max. digging depth	8325 mm	9115 mm	10045 mm	8010 mm	6910 mm
D	Max. vertical wall digging depth	7340 mm	7730 mm	8620 mm	6480 mm	5470 mm
E	Max. digging depth of cut for 2440 mm level	8190 mm	8995 mm	9940 mm	7880 mm	6765 mm
F	Max. digging reach	13030 mm	13760 mm	14630 mm	12640 mm	11585 mm
G	Max. digging reach at ground level	12785 mm	13520 mm	14405 mm	12380 mm	11295 mm
H	Min. swing radius	5370 mm	5385 mm	5510 mm	5090 mm	4670 mm
SAE J 1179 Rating	Bucket digging force	264 kN 26900 kgf				289 kN 29500 kgf
	Bucket digging force at power max.	285 kN 29100 kgf				312 kN 31770 kgf
	Arm crowd force	222 kN 22600 kgf	194 kN 19800 kgf	170 kN 17300 kgf	222 kN 22600 kgf	260 kN 26500 kgf
	Arm crowd force at power max.	238 kN 24300 kgf	209 kN 21300 kgf	182 kN 18600 kgf	238 kN 24300 kgf	280 kN 28500 kgf
ISO 6015 Rating	Bucket digging force	294 kN 30000 kgf				336 kN 34300 kgf
	Bucket digging force at power max.	317 kN 32300 kgf				362 kN 36900 kgf
	Arm crowd force	228 kN 23300 kgf	202 kN 20600 kgf	176 kN 17900 kgf	228 kN 23300 kgf	272 kN 27700 kgf
	Arm crowd force at power max.	246 kN 25100 kgf	218 kN 22200 kgf	189 kN 19300 kgf	246 kN 25100 kgf	293 kN 29900 kgf



LIFTING CAPACITY



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

L mode "ON"

PC700LC-8R												
Boom : 7.66 m			Arm : 3.5 m		Bucket : 2.70 m³ ISO 7451 heaped		Shoes : 610 mm double grouser					
B \ A	⊗ MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*8550 kg	*8550 kg										
6.1 m	*8450 kg	*8450 kg	*12250 kg	11950 kg	*13500 kg	*13500 kg						
3.0 m	9300 kg	7700 kg	*14150 kg	11100 kg	*17000 kg	14900 kg	*22100 kg	21250 kg				
0 m	10550 kg	7700 kg	14200 kg	10400 kg	18950 kg	13850 kg	*25100 kg	19500 kg	*20150 kg	*20150 kg		
-3.0 m	12500 kg	9150 kg	14000 kg	10250 kg	*18600 kg	13550 kg	*23650 kg	19300 kg	*30400 kg	*30400 kg	*17400 kg	*17400 kg
-6.1 m	*12350 kg	*12350 kg			*11150 kg	*11150 kg	*16350 kg	*16350 kg	*20650 kg	*20650 kg		

L mode "ON"

PC700LC-8R HD Spec. Boom : 7.3 m Arm : 3.5 m Bucket : 2.80 m³ ISO 7451 heaped Shoes : 610 mm double grouser												
B \ A	⊗ MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*8150 kg	*8150 kg										
6.1 m	*7950 kg	*7950 kg	*12150 kg	11550 kg	*13200 kg	*13200 kg						
3.0 m	*8900 kg	7900 kg	*13950 kg	10800 kg	*16700 kg	14750 kg	*21550 kg	*21050 kg	*26500 kg	*26500 kg		
0 m	10950 kg	7900 kg	13950 kg	10150 kg	18800 kg	13650 kg	*24850 kg	19500 kg	*17800 kg	*17800 kg		
-3.0 m	13250 kg	9650 kg	13800 kg	10000 kg	*18150 kg	13350 kg	*23450 kg	19200 kg	*30700 kg	*30700 kg	*23750 kg	*23750 kg
-6.1 m	*12450 kg	*12450 kg					*14750 kg	*14750 kg	*19500 kg	*19500 kg		

L mode "ON"

PC700LC-8R SE Spec. Boom : 6.6 m Arm : 2.9 m Bucket : 3.50 m³ ISO 7451 heaped Shoes : 610 mm double grouser												
B \ A	⊗ MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*11800 kg	*11800 kg										
6.1 m	*10950 kg	*10950 kg	*10750 kg	*10750 kg	*14500 kg	*14500 kg						
3.0 m	*11950 kg	9450 kg	14500 kg	10600 kg	*17450 kg	14600 kg	*22300 kg	21350 kg	*30100 kg	*30100 kg		
0 m	13150 kg	9550 kg	13900 kg	10100 kg	18850 kg	13650 kg	*24900 kg	19650 kg	*26550 kg	*26550 kg		
-3.0 m	*14550 kg	12300 kg			*16600 kg	13550 kg	*22300 kg	19450 kg	*29300 kg	*29300 kg	*27200 kg	*27200 kg

* 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.

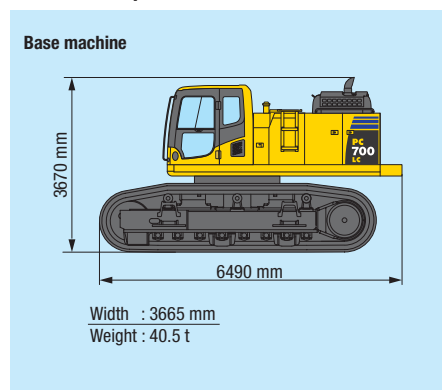


TRANSPORTATION GUIDE

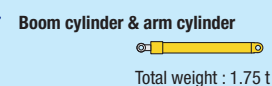
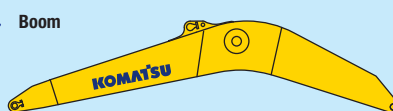
Specs shown include the following equipment:

	Boom	Arm	Bucket	Shoes
PC700LC-8R	7660 mm	3500 mm	2.70 m ³	610 mm double grouser
PC700LC-8R HD Spec.	7300 mm	3500 mm	2.80 m ³	610 mm double grouser
PC700LC-8R SE Spec.	6600 mm	2900 mm	3.50 m ³	610 mm double grouser

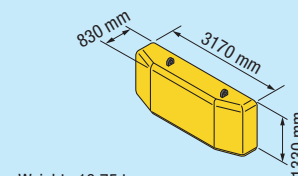
3 Kits Transportation



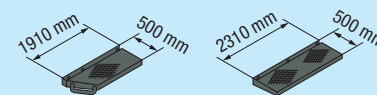
Work equipment assembly Weight : 12.5 t



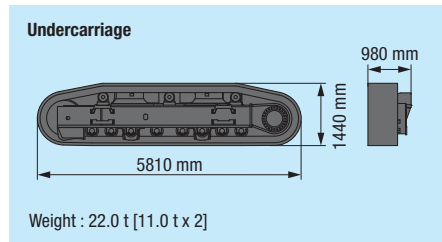
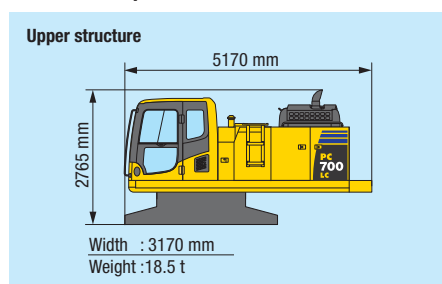
Others Weight : 12.3 t



Weight : 10.75 t



4 Kits Transportation



Work Equipment

		Length	Height	Width	Weight
PC700LC-8R	Boom	7920 mm	2040 mm	1190 mm	4.9 t
	Arm	4870 mm	1210 mm	650 mm	3.3 t
	Bucket	2150 mm	1780 mm	1780 mm	2.5 t
PC700LC-8R HD Spec.	Boom	7530 mm	1960 mm	1190 mm	4.7 t
	Arm	4870 mm	1240 mm	650 mm	3.3 t
	Bucket	2150 mm	1780 mm	1920 mm	3.1 t
PC700LC-8R SE Spec.	Boom	6870 mm	2090 mm	1190 mm	4.8 t
	Arm	4230 mm	1490 mm	650 mm	3.5 t
	Bucket	2150 mm	1780 mm	2040 mm	3.4 t



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

UNDERCARRIAGE:

- 8 track/3 carrier rollers (Each side)
- 610 mm double grouser
- Hydraulic track adjusters (Each side)
- Rock protectors (Undercarriage)
- Sealed track
- 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 light) level check lights (Coolant and engine oil level), self-diagnostic system with trouble data memory
- Rear view mirror (R.H. and L.H.)
- 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
- Horn, electric
- Large handrails
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- Preventive Maintenance (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 arm assembly
 - 3500 mm HD arm assembly
 - 4300 mm arm assembly
 - 5200 mm arm assembly
 - 2900 mm SE arm assembly
- Auto A/C
- Booms (Backhoe):
 - 7660 mm boom assembly
 - 7300 mm HD boom assembly
 - 6600 mm 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 guard
- General tool kit
- Interconnected horn and flashing light
- Large-capacity batteries
- Lower wiper
- OPG top guard level 2 (ISO 10262)
- Radio AM/FM
- Rain visor
- Rear view monitor system

- Seat belt 78 mm, 50 mm
- Service valve
- Shoes:
 - 710 mm double grouser
 - 810 mm 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)

<https://home.komatsu/en/>

Printed in Japan 202000 IP.As

KOMATSU®

CEN00424-04

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