

ENGINE AND RELATED ITEMS:

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

ELECTRICAL SYSTEM:

- Alternator, 50 amp, 24 V
- Batteries, 170 Ah, 2 x 12 V
- Starting motors, 11kW
- Working lights-2 boom, 2 cab top front, 1 cab bottom
- Step light with timer
- Auto decelerator
- Electric priming pump

UNDERCARRIAGE:

- 610 mm 24" double grouser
- 8 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Variable track gauge
- Sealed track

GUARDS AND COVERS:

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

OPERATOR ENVIRONMENT:

- 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, electronically-controlled throttle dials, electric 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, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Seat, fully adjustable with suspension
- Cab with pull-up type front window
- Rear view mirror (LH & RH)

HYDRAULIC CONTROLS:

- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- Two axial piston motors for swing with single-stage relief valve
- One axial piston motor per track for travel with counter balance
- Two variable capacity piston pumps
- Two control valves, 5+4 spools (boom, arm, bucket, swing, and
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler
- In-line filter
- Heavy lift mode system
- Shockless boom control
- Swing priority selection system
- Two-mode setting for boom

DRIVE AND BRAKE SYSTEM:

- Brakes, hydraulic lock travel brakes, oil disc parking
- Hydrostatic two travel speed system with planetary triple reduction

OTHER STANDARD EQUIPMENT:

- Automatic swing holding brake
- Counterweight, 9800 kg 21,610 lb
- Horn, electric
- Marks and plates, English
- Paint, Komatsu standard
- Large handrails
- One-touch engine oil drainage
- PM tune-up service connector
- Remote greasing for radiator fan drive
- Travel alarm
- Rear reflector
- Anti-slip plates
- Corrosion resistor
- Water separator
- Catwalk

OPTIONAL EQUIPMENT

- Additional track guard
- Air suspension seat
- Alternator, 75 Amp, 24 V
- Arms (Backhoe): PC800-8R:
- -3600 mm 11'10" arm assembly
- -4600 mm 15'1" arm assembly
- -5600 mm 18'4" arm assembly PC800SE-8R:
- -2945 mm 9'8" SE arm assembly
- Auto air conditioner
- Booms (Backhoe):
- PC800-8R: -8200 mm 26'11" boom assembly
- PC800SF-8R: -7100 mm 23'4" boom assembly
- Cab front guard (ISO 10262 level 2)
- www.Komatsu.com

- Cab with fixed front window
- Coolant heater
- Counterweight 11850 kg 26,120 lb
- Double flange track roller
- 12V electric supply Fire extinguisher
- Full length track guard
- General tool kit
- Grease gun, electric pump with indicator
- High cab mount
- Interconnected horn and warning light Large-capacity batteries
- Loading shovel attachments Lower wiper
- OPG top guard
- Provision for fast fuel fill
- Radio AM/FM

- Seat belt 78 mm 3". 50 mm 2"
 - Shoes: -710 mm 28" double grouser
 - -810 mm 32" double grouser

 - -910 mm 36" double grouser -1010 mm 40" double grouser
 - Spare parts for first service
 - Strengthened revolving frame underguard
 - Sun visor
 - Track frame undercover (center)
 - Vandalism protection locks
 - Working lights 2 (on cab)

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Gross:370 kW 496 HP @ 1800 rpm **Net:363 kW** 487 HP @ 1800 rpm

> **OPERATING WEIGHT** Backhoe:74200-77810 kg 163,580-171,540 lb

Loading shovel:77000 kg 169,750 lb



PC800/800SE-8R BACKHOE

PC800-8R LOADING SHOVEL

KOMATSU®

Photo may include optional equipment.

CEN00172-02

WALK-AROUND

Productivity Features

- High Work Equipment Speed Increased arm dumping and bucket dumping speed realize efficient loading operation.
- Heavy Lift Mode The heavy lift mode increases lifting force by 10%.
- Large Digging Force High operation efficiency with large digging force for severe applications.
- Two-mode Setting for Boom Switch selection allows either powerful digging or smooth boom operation.
- Twin Swing Motor System provides excellent swing performance, even on slopes.
- Large Drawbar Pull and Steering Force provide excellent mobility.
- Swing Priority Mode

The swing priority mode improves efficiency for loading dump trucks at 90° or 180°.

• Shockless Boom

Switch selection reduces chassis vibration after sudden stops.

See page 5.

2

Excellent Reliability and Durability

- KMAX Bucket Teeth offer superior penetration and longterm sharpness.
- The fuel reliability is improved by adding Fuel Main-filter and Water Separator working against low grade fuel.
- *O-ring Face Seals*, which have excellent sealing performance, are used for the hydraulic hoses.
- High-pressure In-line Filtration

most extensive filtration system available, including a high pressure in-line filter for each main pump.

Ecology and Economy Features

- High Power Komatsu SAA6D140E-5 Engine
- Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides 363 kW 487 HP.
- Offers high power and low fuel consumption.
- Equipped with an electronically controlled variable speed fan.

HORSEPOWER

Gross:370 kW 496 HP @ 1800 rpm Net:363 kW 487 HP @ 1800 rpm

> **OPERATING WEIGHT Backhoe**

74200-77810 kg 163,580 - 171,540 lb Loading shovel 77000 kg 169,750 lb

• Economy Mode Four-level Setting

Enables operator to select the appropriate Economy mode level to match production requirement with lowest fuel consumption.

the muffler



- Fuel Pre-filter with water separator equipped as standard.

The cool-running hydraulic system is protected with the

• Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

KOMATSU

Fan reverse-rotation function facilitates

• Centralized Arrangement of Engine

• Anti-slip Plates for improved foot

• Large Handrail, Step and Catwalk

provide easy access to the engine

• Increased Fuel Tank Capacity

• Electric Priming Pump installed.

and hydraulic equipment.

See page 10.

Easy Maintenance

Checkpoints

traction

• Easy Cleaning of Cooling Unit

clogged radiator cleaning.

- Controllers Sensors Connectors
- Heat resistant wiring Circuit breaker
- Boom Foot Hoses are arranged under the boom foot, improving hose life and safety.

See page 6.

Working Environment

- Large Comfortable Cab
- Low noise and vibration with cab damper mounting
- Large-capacity air conditioner (optional)
- Pressurized cab prevents external dust from entering
- OPG top guard level 2 (by ISO 10262 standard) capable with optional bolt-on top guard.



Advanced Monitor Features

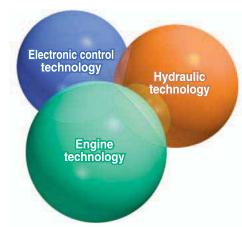
Photo may include optional equipment.

- Machine condition can be checked with **Equipment Management Monitoring System** (EMMS). See page 11.
- Two working modes combine with heavy lift mode for maximum productivity. See page 5.

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.

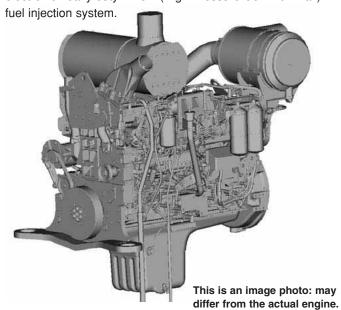
To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system.

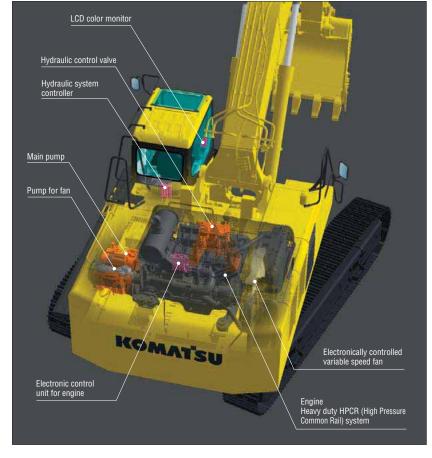
The result is a new generation of high performance and environment friendly excavators.

High Power Komatsu SAA6D140E Engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides **363 kW** 487 HP.

This Komatsu SAA6D140E engine actualizes high-power to low fuel consumption with the optimum fuel injection by electronic heavy duty HPCR (High Pressure Common Rail)





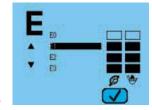
Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low

The electronic control system sets the rotational 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 rotation.



Lower and Economical Fuel Consumption Using Economy Mode

Enables operator to set the Eco mode to up to four levels according to working conditions so that production requirement is



achieved at lowest possible fuel consumption.

Reduction of Ambient Noise (optional)

Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan, low-noise muffler and cover with glasswool, to meet EU Stage 2 noise regulations.

Large Digging Force

Thanks to the high engine output and an excellent hydraulic system, this machine demonstrates powerful digging force.

Maximum arm crowd force (ISO):

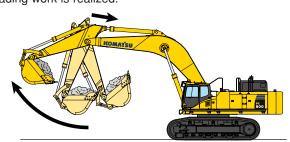
250 kN 25.5 ton

Maximum bucket digging force (ISO):

333 kN 34.0 ton

Work Equipment Speed Increased

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. Combined with increased bucket dumping speed, faster loading work is realized.

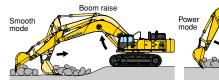


Large Drawbar Pull and Steering Force

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

Two-mode Setting for Boom

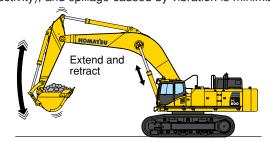
Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to **power mode** for more effective excavating.



Power mode

Shockless Boom Control

The PC800-8R boom circuit features a shockless valve (double-check slow return valve) to automatically reduces the amount of vibration present when operating the boom. Operator fatigue is reduced (which can improve safety and productivity), and spillage caused by vibration is minimized.



Working Mode Selection

Power and Economy Mode

The PC800-8R excavator is equipped with two working modes. Each mode is designed to match engine speed, pump flow, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

Working Mode	Application	Advantage
Р	Power Mode	Maximum production/powerFast cycle time
E (E0,E1,E2,E3)	Economy Mode	Good cycle time Good fuel economy

Heavy Lift Mode

Gives the operator 10% more lifting force on the boom when needed for handling rock or heavy lifting applications.

Swing Priority Setting

The swing priority setting allows the operator to use the same easy motion for 180° loading as 90° loading operations. By altering the oil flow, this setting allows you to select either boom or swing as the priority for increased production.

Selection	n Result	
ON Oil flow to the swing motor is increased 180° loading operations are most efficie		
OFF	Oil flow to the boom is increased. 90°loading operations are most efficient.	



RELIABILITY FEATURES

Excellent Reliability and Durability

Boom Foot Hoses

The boom foot hoses are arranged under the boom foot to reduce hose bend during operation, extending hose life and improving operator safety.



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.

Fuel Pre-filter (with Water Separator)

Removes water and contaminants from fuel to enhance the fuel system reliability



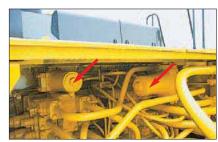
Fuel Main-filter

The reliability of fuel systems is improved, because fuel main-filter additionally installed removes contamination and sludge contained in fuel.



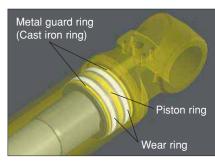
High-pressure In-line Filtration

The PC800-8R has the most extensive filtration system available, providing inline 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 utilized 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.



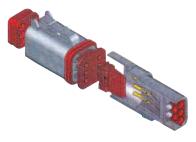
Sturdy guards shield the travel motors and piping against damage from rocks.



Track roller guard (full length) (optional)

DT-type Connectors

DT-type connectors seal tight and have higher reliability.



Circuit Breaker

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



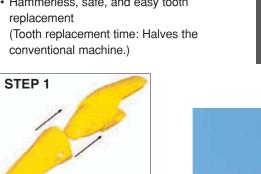
Strengthened Quarry Bucket Provides Outstanding Wear-resistance (optional for PC800SE-8R)

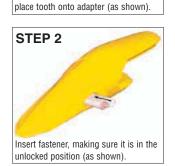
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life. Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life KMAX teeth, durability of bucket is drastically enhanced.

* Koma-hard materials (KVX materials): Komatsu developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180kgf/mm² class). Features high wear-resistance and little quality change from the heat generated during rock loading, maintaining long term hardness.

KMAX Tooth

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

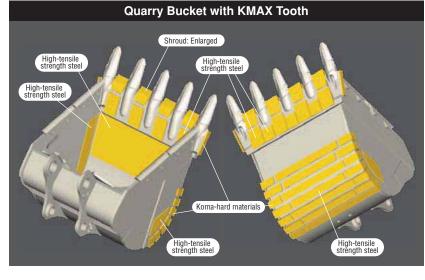




erving proper safety procedures,









WORKING ENVIRONMENT

The cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

Comfortable Cab

New PC800-8R's cab offers an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

Pressurized Cab

The optional air conditioner, air filter and a higher internal air pressure (6.0 mm Aq 0.2" in Aq) prevent external dust from entering the cab.

Low Noise Design

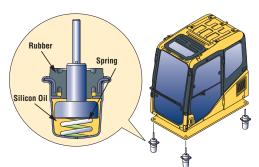
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

Low Vibration with Cab Damper Mounting

PC800-8R uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck, aids vibration reduction at the operator's seat.

Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL).

dB (VL) is index for expressing size of vibration



Comparison of Riding Comfort

pa	9	
Cab Damper Mounting		Conditions: ● Traveling over obstacle one side track ● Traveling speed forward high
Multi-Layer Viscous Mount	-44444444444444444444444444444444444444	— Floor Vibration

Vertical direction on graph shows size of vibration



Photo may include optional equipment.

Automatic Air Conditioner (optional)

A 6,900 kcal air conditioner is utilized. The bi-level control function keeps the operator's head and feet cool and warm respectively This improved air flow function keeps the inside of the cab comfortable throughout the year.





Skylight





Sliding Window

Washable Cab Floormat

The PC800-8R's cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.



Photo may include optional equipment.

Multi-position Controls

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



Seat Sliding Amount: 340 mm 13.4", increased 120 mm 4.7"



Defroster (optional)



Cab Frame Mounted Wiper



Bottle Holder and Magazine Rack

Safety Features

Step Light with Timer provides light for about one minute to allow the operator to get off the machine safely



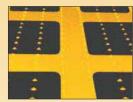
Pump/engine Room Partition prevents oil from spraying on the engine if a hydraulic hose



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

Anti-slip Plates

Spiked plates on working surfaces provide anti-slip performance.



Anti-slip Plates

Horn Interconnected with Warning Light (optional) gives visual and audible notice of the excavator's operation when activated.

EASY MAINTENANCE FEATURES

Komatsu Designed the PC800-8R for Easy Service Access.

Easy Checking and Maintenance of Engine

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



One-touch Drain Cock

Easier, cleaner engine oil changes.

Reduced Maintenance Costs

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



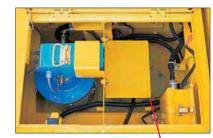
Easy Cleaning of Radiator

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

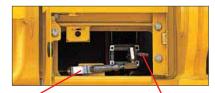


Electric Operated Grease Gun Equipped with Hose Reel (optional)

Greasing is made easy with the electric operated grease gun and indicator.



Grease can drum storage location



Grease gun The grease gun can be reached from ground level.

Convenient **Utility Space**

Utility space provides great convenience to store tools. spare parts, etc.



Indicator

Increased Fuel Tank Capacity

Fuel tank capacity is increased from 880 ltr 232 U.S. gal to 980 ltr 259 U.S. gal to extend operating hours before refueling.

Dust Indicator with 5-step Indication

Informs of air cleaner clogging in 5 steps to warn of filter condition.

Wide Catwalk and Large **Handrails**

Easier, safer operator cab access and maintenance checks.



Steps Connected to the Machine

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



Divided Type Engine Cover

The divided engine cover allows inspection points around the engine to be easily accessed.

Electric Priming Pump

Bleeding air from fuel system is easily accomplished with the electric priming pump.



Electric priming pump switch

High-Quality EMMS Self-diagnostic System

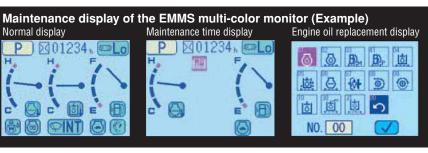
• Abnormality checking function

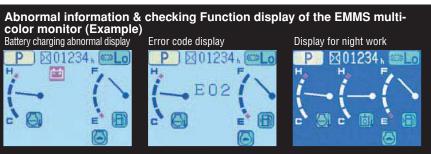
In case any abnormality should occur, the monitoring system checks whether hydraulic pressure, solenoid ON/OFF status, engine speed, electrical connections, etc. are in the normal conditions to keep the machine downtime to a minimum.

- Maintenance history memory function Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored.
- Trouble data memory function All the trouble data are stored to serve as references for future trouble-shooting.



PC800-8R







10

SPECIFICATIONS



ENGINE

ModelKomatsu SAA6D140E-5Type4-cycle, water-cooled, direct injectionAspirationTurbocharged, aftercooledNumber of cylinders6
Bore
Stroke
Piston displacement
Governor All-speed, electronic
Horsepower:
SAE J1995 Gross 370 kW 496 HP
ISO 9249 / SAE J1349*
Rated rpm
*Net horsepower at the maximum speed of radiator cooling fan is 338 kW 454HP

HYDDAIII IC SYSTEM

HYDRAULIC SYSTEM	
Type Open-cent Number of selectable working modes	
Main pump: Type Variable Pumps for Boom, arm, bucket, s Maximum flow 2 x 494 ltr/n	wing, and travel circuits
Fan drive pump Varia	ble capacity piston type
Hydraulic motors: Travel2 x axial piston n Swing2 x axial piston motor w	
Relief valve setting: Implement circuits	320 kg/cm² 4,550 psi 350 kg/cm² 4,980 psi 290 kg/cm² 4,120 psi 350 kg/cm² 4,980 psi

Hydraulic cylinders:

Number of cylinders—bore x stroke	
Boom 2 – 200 mm x 1950 mm	7.9" x 76.8"
Arm	
Std 1 – 200 mm x 2250 mm	7.9" x 88.6"
SE 2 – 185 mm x 1610 mm	7.3" x 63.4"
Bucket	

Std 1 – 185 mm x 1610 mm	7.3" x 63.4"
SE 1 – 225 mm x 1420 mm	8.9" x 55.9"

SWING

12

SWING SYSTEM

Oriven method	tors
Swing reduction	jear
Swing circle lubricationGrease-bat	hed
Swing lock Oil disc br	ake
Swing speed	rpm

DRIVES AND BRAKES

Steering control	Fully hydrostatic xial piston motor, in-shoe design Planetary triple reduction
Gradeability	70%
Maximum travel speed	
Low	2.8 km/h 1.7 mph
High	4.2 km/h 2.6 mph
Service brake	

UNDERCARRIAGE

Center frame
Track frame Box-section
Seal of track
Track adjuster
No. of shoes
No. of carrier rollers
No. of track rollers

D

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank	258.9 U.S. gal
Radiator 100 ltr	26.4 U.S. gal
Engine	14.5 U.S. gal
Final drive, each side 20 ltr	5.3 U.S. gal
Swing drive	6.5 x 2 U.S. gal
Hydraulic tank	116.2 U.S. gal



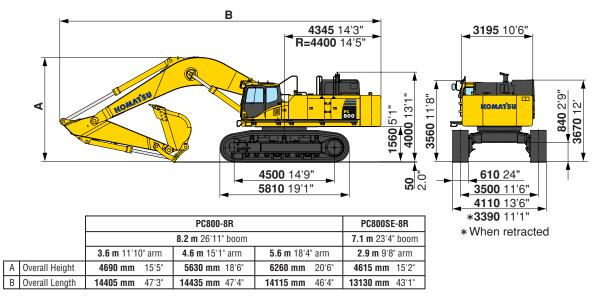
OPERATING WEIGHT (APPROXIMATE)

PC800-8R: Operating weight, including **8200 mm** 26'11" boom, **3600 mm** 11'10" arm, SAE heaped **3.1 m**³ 4.05 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC800SE-8R: Operating weight, including **7100 mm** 23'4" boom, **2945 mm** 9'8" arm, SAE heaped **4.0 m**³ 5.23 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

	PC800-8R		PC800SE-8R	
Shoes	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
610 mm 24"	74200 kg 163,580 lb	121 kPa 1.23 kgf/cm² 17.5 psi	75200 kg 165,790 lb	122 kPa 1.24 kgf/cm² 17.6 psi
710 mm 28"	75000 kg 165,350 lb	105 kPa 1.07 kgf/cm² 15.2 psi	76000 kg 165,550 lb	106 kPa 1.08 kgf/cm² 15.4 psi
810 mm 32"	75530 kg 166,510 lb	92.2 kPa 0.94 kgf/cm ² 13.4 psi	76530 kg 168,720 lb	93.2 kPa 0.95 kgf/cm ² 13.5 psi
910 mm 36"	76170 kg 167,920 lb	83.3 kPa 0.85 kgf/cm ² 12.1 psi	77170 kg 170,130 lb	84.3 kPa 0.86 kgf/cm ² 12.2 psi
1010 mm 40"	76810 kg 169,340 lb	75.5 kPa 0.77 kgf/cm² 10.9 psi	77810 kg 171,540 lb	76.5 kPa 0.78 kgf/cm ² 11.1 psi

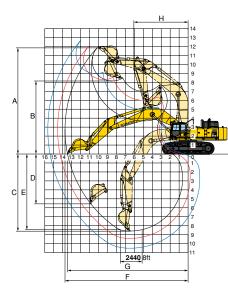
BACKHOE DIMENSIONS





Unit: mm ft in

13



				PC800-8	3R			PC800SE	-8R
Boo	om length			8200 mm	26'11"			7100 mm	23'4"
Arr	n length	3600 mm	11'10"	4600 mm	15'1"	5600 mm	18'4"	2945 mm	9'8"
Α	Max. digging height	11840 mm	38'10"	12000 mm	39'4"	12690 mm	41'8"	11330 mm	37'2"
В	Max. dumping height	8145 mm	26'7"	8295 mm	27'3"	8890 mm	29'2"	7525 mm	24'8"
С	Max. digging depth	8600 mm	28'3"	9590 mm	31'6"	10595 mm	34'9"	7130 mm	23'5"
D	Max. vertical wall digging depth	5575 mm	18'3"	6575 mm	21'7"	7920 mm	26'0"	4080 mm	13'5"
Ε	Max. digging depth of cut for 8' level	8445 mm	27'8"	9455 mm	31'0"	10500 mm	34'5"	6980 mm	22'11"
F	Max. digging reach	13740 mm	45'1"	14575 mm	47'1"	15635 mm	51'4"	12265 mm	40'3"
G	Max. digging reach at ground level	13460 mm	44'2"	14310 mm	46'1"	15385 mm	50'6"	11945 mm	39'2"
Н	Min. swing radius	6060 mm	19'11"	6085 mm	20'0"	6145 mm	20'2"	5645 mm	18'6"
Buo	cket digging force (SAE)	296 k 30200 kgf /		296 k l 30200 kgf / 6		296 kN 30200 kgf / 66		391 k l 39900 kgf / 8	
Arn	n crowd force (SAE)	237 k 24200 kgf /		214 ki 21800 kgf / 4	-	181 kN 18500 kgf / 40		331 k 33800 kgf / 7	
		333 k		333 kl	,	333 kN		431 k	
Buc	cket digging force (ISO)	34000 kgf /				34000 kgf / 74		43900 kgf / 9	
Arn	n crowd force (ISO)	250 k 25500 kgf /		222 k l 22600 kgf / 4	-	183 kN 19100 kgf / 42		341 k i 34800 kgf / 7	

BACKHOE BUCKET, ARM, AND BOOM COMBINATION

BUCKET CAPA	CITY (HEAPED)	WII	DTH				
SAE, PCSA m³ yd³	CECE m³ yd³	Without side shrouds, side cutters mm in	With side shrouds, side cutters mm in	WEIGHT (with side cutters) kg lb		ARM LENGTH m ft in	
PC800-8 (use with 8.2	? m boom)				3.6 11'10"	4.6 15'1"	5.6 18'4"
2.8 3.66 3.1 4.05 3.4 4.45	2.5 3.27 2.8 3.66 3.0 3.92	1550 51.0" 1700 66.9" 1820 71.7"	1695 66.7" 1880 74.0" 1920 75.6"	2740 6,040 2960 6,530 3500 7,720	0 0 0		
PC800SE-8 (use with	7.1 m boom)					2.9 9'8"	
4.0 5.23 4.3 5.62 4.5 5.89	3.5 4.58 3.8 4.97 4.0 5.23	2000 78.7" 2150 84.6" 2230 91.9"	2100 82.8" 2250 88.7" 2330 91.7"	3435 7,570 3870 8,530 4050 8,930		0	

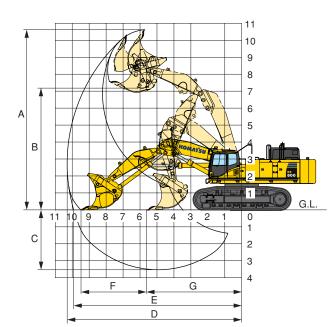
These charts are based on over-side stability with fully loaded bucket at maximum reach.

— : Not useable

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



OADING SHOVEL WORKING RANGE AND BUCKET SELECTION



Working Range

	Type of bucket	Botto	m dump
	Capacity-heaped	4.5 m³ 5.9 yd³	5.1 m³ 6.7 yd³
Α	Max. cutting height	10635 mm	34'11"
В	Max. dumping height	7180 mm	23'7"
С	Max. digging depth	3535 mm	11'7"
D	Max. digging reach	10305 mm	33'10"
Е	Max. digging reach at ground level	9920 mm	32'7"
F	Level crowding distance	3875 mm	12'9"
G	Min. crowd distance	5620 mm	18'5"
Bu	cket digging force	477 kN 4860	0 kg 107,140 lb
Arı	n crowd force	404 kN 4120	00 kg 90,830 lb

Bucket Selection

Type of bucket	Botton	n dump
Capacity-heaped	4.5 m³ 5.9 yd³	5.1 m³ 6.7 yd³
Width	2320 mm 91.3"	2670 mm 105.1"
Weight	5700 kg 12,570 lb	7360 kg 16,230 lb
No. of bucket teeth	6	6
Recommended uses	General-purpose digging and loading	Light-duty excavation and loading

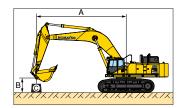


LOADING SHOVEL OPERATING WEIGHT

Operating weight, including 4600 mm 15'1" boom, 3400 mm 11'2" arm, 4.5 m3 5.9 yd3 heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.

Shoes	Operating Weight	Ground Pressure
610 mm	77000 kg	125 kPa/ 1.27 kg/cm ²
24"	169,750 lb	18.1 PSI





PC800-8R

Equipment:

- Boom: **8.2 m** 26'11"
- Arm: 3.6 m 11'10"
- Bucket: 3.1 m3 4.05 yd3
- Shoe: 610 mm 24"
- Counterweight: 9.8 ton 21,610 lb
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

Unit: kg lb

Unit: kg lb

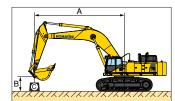
HEAVY LIFTING "OFF"

A	↔ Ma	ximum	9.0 m 29'		7.5 r	n 24'	6.0 n	n 19'	4.5 r	n 14'	3.0 m 9'	
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	* 7700 *17,000	* 7700 *17,000	* 12150 *26,700	* 12150 *26,700	*13950 *30,800	*13950 *30,800						
3.0 m 9'	*9000 *19,800	7050 15,500	*14500 *32,000	12000 26,400	*17850 *39,400	16200 35,700	*23750 *52,400	22900 50,500				
0 m 0'	9250 20,400	6950 15,300	14100 31,100	10750 23,700	18900 41,600	14300 31,600	*26650 *58,700	20250 44,700	*13450 *29,700	*13450 *29,700		
−3.0 m −9'	10900 24,100	8250 18,100	13700 30,200	10350 22,800	18400 40,500	13850 30,500	*25150 *55,400	20000 44,000	*26650 *58,800	*26650 *58,800	*19000 *41,900	*19000 *41,900
−6.0 m −19'	*13700 *30,200	13500 29,800			*14800 *32,600	14650 32,300	*19000 *41,900	*19000 *41,900	* 24050 *53,100	* 24050 *53,100		

HEAVY LIFTING "ON"

A	A Maximum		9.0 m 29		7.5 m 24'		6.0 n	n 19'	4.5 r	n 14'	3.0 m 9'	
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	*8700 *19,200	8300 18,300	* 13900 *30,700	13600 30,000	* 15900 *35,100	* 15900 *35,100						
3.0 m 9'	9250 20,400	7050 15,500	15400 34,000	12000 26,400	*20400 *45,000	16200 35,700	*27050 *59,600	22900 50,500				
0 m 0'	9250 20,400	6950 15,300	14100 31,100	10750 23,700	18900 41,600	14300 31,600	27200 59,900	20250 44,700	*15050 *33,100	* 15050 *33,100		
−3.0 m −9'	10900 24,100	8250 18,100	13700 30,200	10350 22,800	18400 40,500	13850 30,500	26900 59,300	20000 44,000	*29500 *65,000	*29500 *65,000	*21100 *46,500	*21100 *46,500
−6.0 m −19'	*15950 *35,100	*13500 *29,800			*17150 *37,800	14650 32,300	*21950 *48,400	21100 46,500	*27800 *61,200	*27800 *61,200		

^{*} 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.



PC800-8R

Equipment:

• Boom: 8.2 m 26'11"

• Arm: **4.6 m** 15'1"

• Bucket: 2.8 m³ 3.66 yd³

• Shoe: 610 mm 24"

• Counterweight: 9.8 ton 21,610 lb

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front Cs: Rating over side

: Rating at maximum reach

HEAVY LIFTING "OFF"

Unit: kq lb

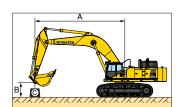
														Orne. Ng ik
A	A		m 39'	9.0 r	n 29'	7.5 n	7.5 m 24'		n 19'	4.5 m 14'		3.0 m 9'		
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	* 6350 *14,000	* 6350 *14,000	*7850 *17,300	7700 17,000	*10700 *23,600	*10700 *23,600								
3.0 m 9'	*7300 *16,100	6050 13,300	9300 20,500	7050 15,600	*13,300 *29,400	12400 27,300	*16250 *35,900	*16250 *35,900	*21350 *47,100	*21350 *47,100				
0 m 0'	7950 17,500	5900 13,000	8650 19,000	6450 14,200	14250 31,400	10850 23,900	19150 42,300	14550 32,100	*25900 *57,100	20700 45,600	*14500 *32,000	*14500 *32,000		
−3.0 m −9'	9100 20,100	6750 14,900			13500 29,700	10150 22,300	18150 40,100	13650 30,100	*25950 *57,200	19700 43,400	*23400 *51,600	*23400 *51,600	*15850 *35,000	*15,850 *35,000
−6.0 m −19'	*12600 *27,800	9950 22,000			*13200 *29,100	10400 23,000	*17000 *37,500	13950 30,800	*21750 *48,000	20300 44,700	*28500 *62,900	*28500 *62,900	*28600 *63,000	*28600 *63,000

HEAVY LIFTING "ON"

Unit: ka lb

A	⊕ Ma	ximum	12.0	m 39'	1 0.9	n 29'	7.5 n	n 24'	6.0 r	n 19'	4.5 r	n 14'	3.0	m 9'
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	*7250 *16,000	7100 15,600	* 8900 *19,700	7700 17,000	* 12300 *27,100	* 12300 *27,100								
3.0 m 9'	8050 17,800	6050 13,300	9300 20,500	7050 15,600	*15350 *33,800	12400 27,300	*18600 *41,000	16900 37,300	*24300 *53,500	*24300 *53,500				
0 m 0'	7950 17,500	5900 13,000	8650 19,000	6450 14,200	14250 31,400	10850 23,900	19150 42,300	14550 32,100	27650 61,000	20700 45,600	* 16200 *35,800	* 16200 *35,800		
−3.0 m −9'	9100 20,100	6750 14,900			13500 29,700	10150 22,300	18150 40,100	13650 30,100	26600 58,600	19700 43,400	*25900 *57,100	*25900 *57,100	*17650 *39,000	*17650 *39,000
−6.0 m −19'	13200 29,100	9950 22,000			13750 30,400	10400 23,000	18500 40,800	13950 30,800	* 25050 *55,200	20300 44,700	* 32750 *72,200	* 32750 *72,200	*31600 *69,700	*31600 *69,700

^{*} 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.



PC800-8R

Equipment:

- Boom: **8.2 m** 26'11" • Arm: **5.6 m** 18'4"
- Bucket: 2.8 m3 3.66 yd3
- Shoe: 610 mm 24"
- Counterweight: 9.8 ton 21,610 lb
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side A: Rating at maximum reach

HEAVY LIFTING "OFF"

Unit: kg lb

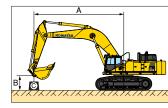
A	↔ Ma	ximum	12.0	m 39'	9.0 n	1 29'	7.5 n	1 24'	6.0 n	n 19'	4.5 r	n 14'	3.0 ı	n 9'
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	*3950 *8,700	* 3950 *8,700	*6950 *15,400	* 6950 *15,400										
3.0 m 9'	*4500 *9,900	* 4500 *9,900	*9050 *19,900	7050 15,500	*11750 *25,900	*11750 *25,900	*14200 *31,300	*14200 *31,300	*18350 *40,400	*18350 *40,400				
0 m 0'	*5600 *12,400	4700 10,300	8400 18,600	6200 13,700	14150 31,200	10750 23,700	*17800 *39,200	14350 31,700	*24100 *53,100	20850 46,000	*15050 *33,200	* 15050 *33,200		
−3.0 m −9'	7300 16,100	5250 11,600	7950 17,500	5750 12,700	13050 28,800	9700 21,400	17700 39,000	13150 29,000	*25600 *56,400	19050 42,100	*20000 *44,100	*20000 *44,100	* 12800 *28,200	*12800 *28,200
−6.0 m −19'	9850 21,700	7250 16,000			13000 28,600	9650 21,200	17600 38,800	13100 28,900	*23050 *50,800	19200 42,300	*31050 *68,400	*31050 *68,400	*22450 *49,500	*22450 *49,500

HEAVY LIFTING "ON"

Unit: kg lb

A	↔ Ma	ximum	12.0 r	n 39'	9.0 n	າ 29'	7.5 n	n 24'	6.0 r	n 19'	4.5	m 14'	3.0	m 9'
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	* 4700 *10,300	*4700 *10,300	*8000 *17,600	7800 17,200										
3.0 m 9'	*5300 *11,600	4850 10,700	9250 20,400	7050 15,500	*13600 *30,000	12600 27,700	*16300 *36,000	*16300 *36,000	*20900 *46,100	*20900 *46,100				
0 m 0'	* 6500 *14,300	4700 10,300	8400 18,600	6200 13,700	14150 31,200	10750 23,700	18950 41,800	14350 31,700	*27550 *60,800	20850 46,000	*16800 *37,000	*16800 *37,000		
−3.0 m −9'	7300 16,100	5250 11,600	7950 17,500	5750 12,700	13050 28,800	9700 21,400	17700 39,000	13150 29,000	25950 57,200	19050 42,100	*22200 *49,000	*22200 *49,000	*14350 *31,600	*14350 *31,600
−6.0 m −19'	9850 21,700	7250 16,000			13000 28,600	9650 21,200	17600 38,800	13100 28,900	26050 57,500	19200 42,300	*35400 *78,000	32550 71,800	*24950 *55,000	*24950 *55,000

^{*} 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.



PC800SE-8R

Equipment:

- Boom: **7.1 m** 23'4"
- Arm: **2.9 m** 9'8"
- Bucket: 4.0 m³ 5.23 yd³
- Shoe: 610 mm 24"
- Counterweight: 9.8 ton 21,610 lb
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- Rating at maximum reach

HEAVY LIFTING "OFF"

Unit: kg lb

A	A Maximur		9.0 m 29'		7.5 m 24'		6.0 n	1 19'	4.5 m 14'		3.0 m 9'	
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	*12650 *27,900	10350 22,800	*13150 *29,000	12650 27,900	*14700 *32,400	* 14700 *32,400						
3.0 m 9'	11300 24,900	8550 18,900	14850 32,800	11450 25,200	*18200 *40,100	15850 34,900	*23800 *52,500	22950 50,600				
0 m 0'	11550 25,400	8650 19,100	13850 30,500	10450 23,000	18800 41,400	14200 31,300	*26650 *58,800	20400 45,000	*28900 *63,800	*28900 *63,800		
−3.0 m −9'	* 14900 *32,800	11350 25,000			*18350 *40,500	14050 31,000	*23950 *52,800	20400 45,000	*31500 *69,500	*31500 *69,500	*36900 *81,300	*36900 *81,300

HEAVY LIFTING "ON"

Unit: kg lb

A	⊕ Maximum		9.0 m 29'		7.5 m 24'		6.0 m 19'		4.5 m 14'		3.0 m 9'	
В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.0 m 19'	13350 29,400	10350 22,800	* 15100 *33,300	12650 27,900	*16800 *37,000	*16800 *37,000						
3.0 m 9'	11300 24,900	8550 18,900	14850 32,800	11450 25,200	20,550 45,300	15850 34,900	*27100 *59,700	22950 50,600				
0 m 0'	11550 25,400	8650 19,100	13850 30,500	10450 23,000	18800 41,400	14200 31,300	27400 60,500	20400 45,000	* 32000 *70,500	* 32000 *70,500		
−3.0 m −9'	15000 33,100	11350 25,000			18650 41,100	14050 31,000	27400 60,400	20400 45,000	* 36050 *79,500	34500 76,000	*40700 *89,700	*40700 *89,700

^{*} 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.



Transportation specifications (length x height x width)

Backhoe

Arm

Specs shown include the following equipment:

Work equipment assembly (Backhoe)
Weight : PC800-8R : 17.1 t 18.8 U.S.ton

PC800SE-8R: 18.1 t 20.0 U.S.ton

(67)

PC800-8R: Boom 8200 mm 26'11", Arm 3600 mm 11'10", Bucket 3.1 m3 4.05 yd3, Shoes 610 mm 24" double grouser PC800-8R: Boom 4600 mm 15'1", Arm 3400 mm 11'2", PC800SE-8R: Boom 7100 mm 23'4", Arm 2945 mm 9'8", Bucket 4.0 m³ 5.23 yd³, Shoes 610 mm 24" double grouser Bucket 4.5 m³ 5.9 yd³, Shoes 610 mm 24" double grouser

3 Kits Transportation

PC800-8R : 7.9 t: 8530 x 2800 x 1500 8.7 U.S.ton: 28'0" x 9'2" x 4'11" PC800SE-8R: 7.3 t: 7430 x 2695 x 1500

8.0 U.S.ton: 24'5" x 8'10" x 4'11"

: 4.0 t : 5120 x 1345 x 750 PC800-8R 4.4 U.S.ton: 16'10" x 4'5" x 2'6" PC800SE-8R: 4.9 t: 4080 x 1695 x 755 5.4 U.S.ton: 13'5" x 5'7" x 2'6"

Bucket

PC800-8R : 2.9 t: 2365 x 1850 x 1845 3.2 U.S.ton: 7'9" x 6'1" x 6'1" PC800SE-8R: 3.4 t: 2200 x 1950 x 2105 3.7 U.S.ton: 7'3" x 6'5" x 6'11"

Boom & Arm cylinder

PC800-8R : Total 2.3 t 2.6 U.S.ton PC800SE-8R: Total 2.5 t 2.8 U.S.ton

Base machine



6900 22'8 Width : 3515 11'6"

Weight: 47.4 t 52.2 U.S.ton

Weight : 10.1 t 11.1 U.S.ton Weight: 9.8 t 10.8 U.S.ton

29kg (64lb)

4 Kits Transportation

Work equipment assembly (Backhoe) Weight: PC800-8R: 17.1 t 18.8 U.S.ton PC800SE-8R: 18.1 t 20.0 U.S.ton

PC800-8R : 7.9 t: 8530 x 2800 x 1500 8.7 U.S.ton: 28'0" x 9'2" x 4'11" PC800SE-8R: 7.3 t: 7430 x 2695 x 1500

8.0 U.S.ton: 24'5" x 8'10" x 4'11"

: 4.0 t : 5120 x 1345 x 750 PC800-8R 4.4 U.S.ton: 16'10" x 4'5" x 2'6" PC800SE-8R: 4.9 t: 4080 x 1695 x 755 5.4 U.S.ton: 13'5" x 5'7" x 2'6"

PC800-8R : 2.9 t : 2365 x 1850 x 1845 3.2 U.S.ton: 7'9" x 6'1" x 6'1" PC800SE-8R: 3.4 t: 2200 x 1950 x 2105 3.7 U.S.ton: 7'3" x 6'5" x 6'11"

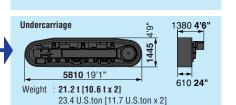
Bucket

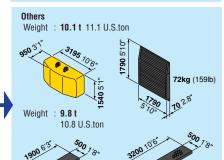
Boom & Arm cylinder PC800-8R : Total 2.3 t 2.6 U.S.ton

PC800SE-8R: Total 2.5 t 2.8 U.S.ton

6030 19'9" Width . 3290 10'10"

Weight: 26.3 t 29.0 U.S.ton

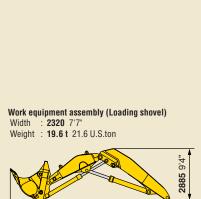




Loading Shovel

Specs shown include the following equipment:

3 Kits Transportation



9500 31'2"

