

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

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
- Strengthened revolving frame underguard
- OPG top guard (operator protective guards ISO 10262 level 2 (FOG))

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
- Rear view mirror (R,H)
- Seat, fully adjustable with suspension
- Cab with fixed front window

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 valve
- 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 final drive

OTHER STANDARD EQUIPMENT:

- Automatic swing holding brake
- Counterweight, 11850 kg 26,120 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

OPTIONAL EQUIPMENT

- Alternator, 75 Amp, 24 V
- Air suspension seat Arms (Backhoe):
- PC850-8:
- -3600 mm 11'10" HD arm assembly PC850SE-8:
- -2945 mm 9'8" SE arm assembly
- -3600 mm 11'10" HD arm assembly
- Auto air conditioner
- Booms (Backhoe):
- PC850-8:

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CEN00073-04

- -8040 mm 26'5" boom assembly PC850SE-8:
- -7100 mm 23'4" boom assembly

- Cab front guard (ISO 10262 level 2)
- Catwalk
- Coolant heater
- Double flange track roller
- 12V electric supply
- Fire extinguisher
- General tool kit
- Grease gun, electric pump with indicator
- Interconnected horn and warning light
- Large-capacity batteries
- Provision for fast fuel fill
- Lower wiper
- Radio AM/FM
- Rain visor

- Rear view mirror (L,H)
- Seat belt 78 mm 3"
- Shoes:
- -710 mm 28" double grouser Spare parts for first service
- Track frame undercover (center)
- Vandalism protection locks

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PC850-8 BACKHOE PC850SE-8 BACKHOE

HORSEPOWER

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

OPERATING WEIGHT

PC850-8: 78700-79500 kg

173,500–175,270 lb

PC850SE-8: 78300-79100 kg 172,620–174,380 lb

ecot3





Photo may include optional equipment.

Courtesy of Machine. Market

HORSEPOWER Gross: 370 kW 496 HP @ 1800 rpm

Net: 363 kW 487 HP @ 1800 rpm

OPERATING WEIGHT

PC850-8: 78700-79500 kg

173,500-175,270 lb

PC850SE-8: 78300-79100 kg

172,620-174,380 lb

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.

• Shockless Boom

Switch selection reduces chassis vibration after sudden stops.

See page 5.

KOMATSU Easy Maintenance • Easy Cleaning of Cooling Unit Fan reverse-rotation function facilitates cloqued radiator cleaning. • Centralized Arrangement of Engine Checkpoints • Anti-slip Plates for improved foot traction • Large Handrail, Step and Catwalk provide easy access to the engine and hydraulic equipment. • Increased Fuel Tank Capacity See page 10.

Excellent Reliability and Durability

- KMAX Bucket Teeth offer superior penetration and longterm sharpness.
- Fuel Pre-filter with water separator equipped as standard.
- *O-ring Face Seals*, which have excellent sealing performance, are used for the hydraulic hoses.
- High-pressure In-line Filtration

The cool-running hydraulic system is protected with the most extensive filtration system available, including a high pressure in-line filter for each main pump.

• Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

- 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.

Ecology and Economy Features

- Komatsu SAA6D140E-5 Engine Meets Tier 3 Emissions Regulations.
- World's first cooled EGR system with bypass-assist type electronically controlled venturi
- Offers high power and low fuel consumption, while conforming to Tier 3 emission regulations.
- Reduces NOx emission approximately 40%.
- Equipped with an electronically controlled variable speed fan.

• Economy Mode Four-level Setting

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

• Reduction of Ambient Noise

Meets the EU Stage 2 noise regulations.

- Electronically controlled variable speed fan drive



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

- 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

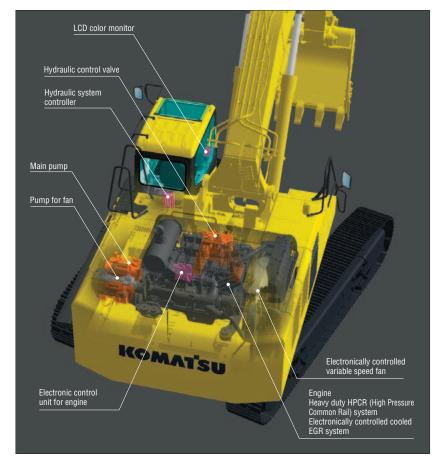
Komatsu Technology



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.



Environment-friendly Clean Engine Mounted

The PC850-8, which is equipped with the Komatsu SAA6D140E-5 engine, meets the Tier 3 emission regulations in North America (EPA) and EU Stage 3A. The SAA6D140E-5 engine adopts the world's first cooled EGR system with electronically controlled bypass-assist type venturi. NOx emission is reduced 40%, while maintaining high power and low fuel consumption.



differ from the actual engine.

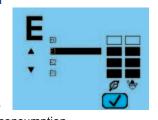
Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low

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):

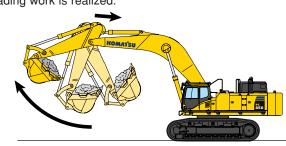
298 kN 30.4 ton

Maximum bucket digging force (ISO):

363 kN 37.0 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.

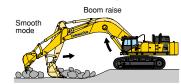


Large Drawbar Pull and Steering Force

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

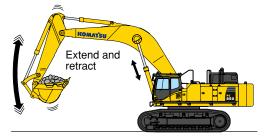
Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to **power mode** for more effective excavating.





Shockless Boom Control

The PC850-8 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 PC850-8 excavator is equipped with two working modes. Each mode is designed to match engine flow, pump speed, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

Working Mode	Application	Advantage
P	Power Mode	Maximum production/power Fast 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	Result
ON	Oil flow to the swing motor is increased. 180°loading operations are most efficient.
OFF	Oil flow to the boom is increased. 90°loading operations are most efficient.



RELIABILITY FEATURES

Excellent Reliability and Durability

Boom Foot Hoses

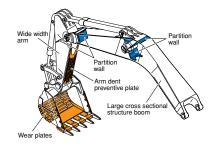
The boom foot hoses are arranged under the boom foot to reduce hose

bend during operation, extending hose life and improving operator safety.



Strengthened Boom and Arm

Thanks to the large cross-sectional structure employing a high tensile strength steel with a thick plate, partition wall, etc., the boom and arm exhibit excellent durability and are highly resistant to bending and torsional stress.



O-ring Face Seal

The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance during operation.

Frame Structure

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

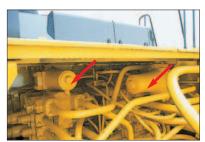
Fuel Pre-filter (with Water Separator)

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



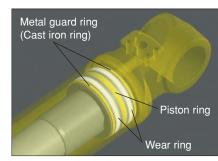
High-pressure In-line Filtration

The PC850-8 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 utilized for the engine electric circuit and other major component circuit.

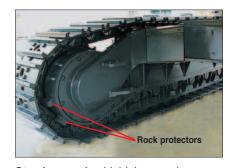
Circuit Breaker

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



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)

Strengthened Revolving Frame Underguard

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

DT-type Connectors

DT-type connectors seal tight and have higher reliability.



Strengthened Quarry Bucket Provides Outstanding Wear-resistance

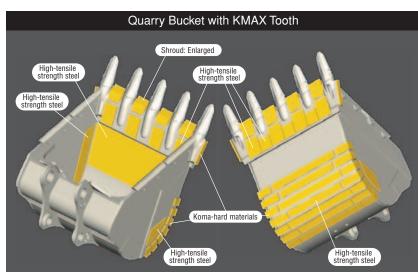
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life.

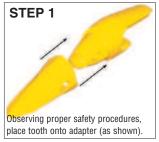
Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life KMAX teeth, durability of bucket is drastically enhanced.

* 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 replacement
 (Tooth replacement time: Halves the conventional machine.)













WORKING ENVIRONMENT

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

Large Comfortable Cab

Comfortable Cab

New PC850-8'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.

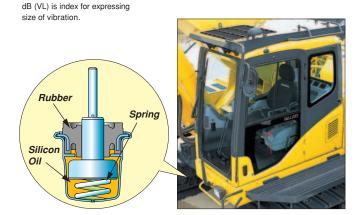
Low Noise Design

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

Low Vibration with Cab Damper Mounting

PC850-8 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).



Comparison of Riding Comfort

Vertical direction on graph shows size of vibration

Cab Damper Mounting	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Conditions: ◆ Traveling over obstacle one side track ◆ Traveling speed forward high
Multi-Layer Viscous Mount	- Application of the second of	— Floor Vibration



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.



Rigid and Safe Operator's Cab

OPG top guard

The OPG top guard securely protects the operator's cab and conforms to the ISO standard.

Single sheet fixed glass

The glass installed in the machine has excellent visibility since it is laminated to prevent shortening and has less vibration.



See-through skylight equipped with a sun shade

The upward visibility is excellent.

Additional head lamp

Night operation is safe.

Lower wiper (optional)

Lower windshield wiper improves visibility in rain.

Horn interconnected with warning

light (optional) give visual and



Warning light (optional) audible notice of the excavator's operation when activated.



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"

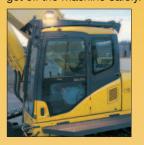
Cab Frame Mounted Wiper Defroster (optional)



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

EASY MAINTENANCE FEATURES

Komatsu Designed the PC850-8 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

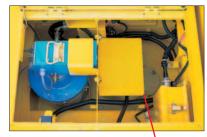
Easier, cleaner engine oil changes.

Reduced Maintenance Costs

Hydraulic oil filter replacement is extended from 500 to 1000 hours. Engine oil and filter replacement intervals are extended from 250 to 500 hours.

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



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

Wide Catwalk and Large Handrails

Easier, safer operator cab access and maintenance checks.



Easy Cleaning of Radiator

Reverse-rotation function of the hydraulic driven fan facilitates cleaning of the cooling unit. In addition, this function contributes to reducing warming-up run time in low temperature and discharging hot air from the engine room to keep appropriate heat balance.



Convenient **Utility Space** Utility space provides great convenience to store tools,

spare parts,

etc.



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.

Steps Connected to the Machine Cab

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



Dust Indicator with 5-step Indication

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

Divided Type Engine Cover

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



High-Quality EMMS Self-diagnostic System

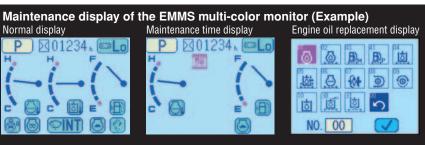
• Abnormality Checking Function In case any abnormality should occur, the monitoring system checks whether hydraulic pressure, solenoid ON/OFF status, engine speed, electrical connections, etc. are in the normal conditions to keep the machine downtime

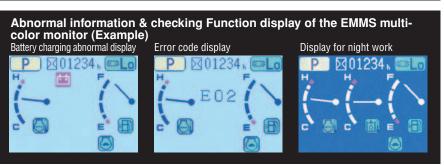
Maintenance History Memory Function Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored.

to a minimum.

• Trouble Data Memory Function All the trouble data are stored to serve as references for future trouble-shooting.









SPECIFICATIONS



Model Komatsu SAA6D140E-5 Type 4-cycle, water-cooled, direct injection Aspiration Turbocharged, aftercooled, cooled EGR	1
Number of cylinders	
Bore	
Piston displacement	
Governor All-speed, electronic	
Horsepower:	ŀ
SAE J1995 Gross 370 kW 496 HP	
ISO 9249 / SAE J1349* Net 363 kW 487 HP	
Rated rpm	F
Fan drive type	F
Meets EPA Tier 3 and EU Stage 3A emission regulations. *Net horsepower at the maximum speed of radiator cooling fan is 338 kW 453HP.	

HYDRAULIC SYSTEM	
Type Open-cent Number of selectable working modes	
Main pump: Type Variable Pumps for Boom, arm, bucket, so Maximum flow 2 x 494 ltr/m	wing, and travel circuits
Fan drive pump Varial	ble capacity piston type
Fan drive pump Varial	ble capacity piston type
Hydraulic motors: Travel	, ,
Relief valve setting: Implement circuits	

Travel circuit 34.3 MPa	350 kg/cm ²	4,980 psi
Swing circuit 28.4 MPa	290 kg/cm ²	4,120 psi
Heavy lift circuit 34.3 MPa	350 kg/cm ²	4,980 psi
Pilot circuit	30 kg/cm ²	430 psi
	•	

Hydraulic cylinders: Number of cylinders—bore x stroke

Boom 2 – 200 mm x 19 Arm 2 – 185 mm x 16		
Bucket		
Std 1 – 185 mm x 18	320 mm	7.3" x 71.7"
SE 1 – 225 mm x 14	120 mm	8.9" x 55.9"

SWING SYSTEM

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Driven method	Hydraulic motors
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Swing lock	Oil disc brake
Swing speed	6.8 rpm

DRIVES AND BRAKES

Steering control
Travel motor Axial piston motor, in-shoe design
Reduction system Planetary double reduction
Maximum drawbar pull
Gradeability
Maximum travel speed
Low
High
Service brake
Parking brake Oil disc brake

UNDERCARRIAGE

Center frame
Track frame Box-section
Seal of track
Track adjuster
No. of shoes
No. of carrier rollers
No. of track rollers 8 each side

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank	258.9 U.S. gal
Radiator	26.4 U.S. gal
Engine	15.3 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



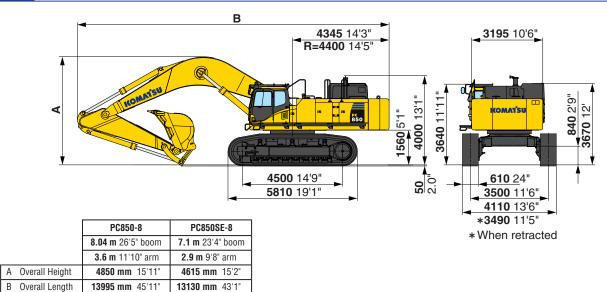
OPERATING WEIGHT (APPROXIMATE)

PC850-8: Operating weight, including **8040 mm** 26'5" boom, **3600** mm 11'10" arm, SAE heaped 3.4 m³ 4.45 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC850SE-8: Operating weight, including 7100 mm 23'4" boom, 2945 mm 9'8" arm, SAE heaped 4.3 m³ 5.62 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

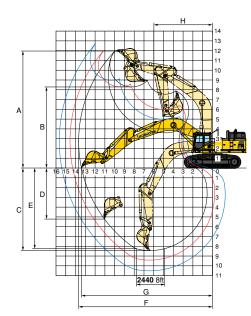
	PC850-8		PC850SE-8	
Shoes	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
610 mm 24"	78700 kg 173,500 lb	128 kPa 1.31 kgf/cm² 18.6 psi	78300 kg 172,620 lb	127 kPa 1.30 kgf/cm² 18.5 psi
710 mm 28"	79500 kg 175,270 lb	112 kPa 1.14 kgf/cm² 16.2 psi	79100 kg 174,380 lb	111 kPa 1.13 kgf/cm² 16.1 psi

BACKHOE DIMENSIONS



WORKING RANGE

Unit: mm ft in



		PC85	0-8	PC850SE-8					
Boo	om length	8040 mm	26'5"		7100 mm	1 23'4"			
Arm length		3600 mm	11'10"	2945 mm	9'8"	3600 mm	11'10"		
Α	Max. digging height	11955 mm	39'3"	11330 mm	37'2"	11055 mm	36'3"		
В	Max. dumping height	8235 mm	27'0"	7525 mm	24'8"	7430 mm	24'5"		
С	Max. digging depth	8445 mm	27'8"	7130 mm	23'5"	7790 mm	25'7"		
D	Max. vertical wall digging depth	5230 mm	17'2"	4080 mm	13'5"	4260 mm	14'0"		
Е	Max. digging depth of cut for 8' level	8310 mm	27'3"	6980 mm	22'11"	7680 mm	25'2"		
F	Max. digging reach	13660 mm	44'10"	12265 mm	40'3"	12710 mm	41'8"		
G	Max. digging reach at ground level	13400 mm	44'0"	11945 mm	39'2"	12400 mm	40'8"		
Н	Min. swing radius	5985 mm	19'8"	5645 mm	18'6"	5440 mm	17'10"		
Buc	ket digging force (SAE)	316 32200 kgf /		391 k l 39900 kgf / 8		316 kl 32200 kgf / 7			
Arm crowd force (SAE)		285 29100 kgf /		331 k 33800 kgf / 7		285 kl 29100 kgf / 6	· 1		
Bucket digging force (ISO)		363 37000 kgf /		431 k l 43900 kgf / 9		363 kl 37000 kgf / 8	-		
Arm crowd force (ISO)		298 30400 kgf /		341 k 34800 kgf / 7		298 kl 30400 kgf / 6	-		

BACKHOE BUCKET, ARM, AND BOOM COMBINATION

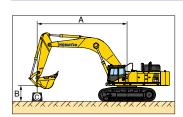
BUCKET	CAPACITY (HEAPED)	V	/IDTH				
SAE, PCSA m³ yd³	CECE m³ yd³	Without side shrouds mm in	With side shrouds mm in	WEIGHT (with side shrouds) kg Ib	ARM LENGTH m ft in		
PC850-8 (use w	3.6 11'10"						
3.4 4.45	3.0 3.9	2 1820 71.7"	1870 73.6"	3500 7,720	0		
PC850SE-8 (use	with 7.1 m boom)	•	•	•	2.9 9'8"	3.6 11'10"	
4.0 * 5.23	3.5 4.5	3 2000 78.7"	2105 82.9"	4000 8,820	0	0	
4.0 5.23	3.5 4.5	2000 78.7"	2105 82.9"	3435 7,570		-	
4.3 5.62	3.8 4.9	2150 84.6"	2255 88.8"	3870 8,530	ĺ	-	
4.5 5.87	4.0 5.2	3 2230 87.8"	2330 91.9"	4050 8,930		–	
		bility with fully landed bucks		1	1	*For heavy duty	

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

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

— : Not useable

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PC850-8

Equipment:

- Boom: **8.04 m** 26'5"
- Arm: **3.6 m** 11'10"
- Bucket: **3.4 m**³ 4.45 yd³
- Shoe: 610 mm 24"
- Counterweight: 11.85 ton 26,120 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

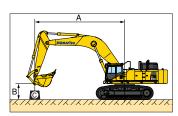
HEAVY LIFTING "OFF"

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'	* 9300 *20,500	8650 19,000	*11050 *24,400	*11050 *24,400	*12800 *28,200	* 12800 *28,200						
3.0 m 9'	9600 21,200	7250 15,900	*13250 *29,200	12250 27,000	*16450 *36,200	*16450 *36,200	*22050 *48,600	*22050 *48,600				
0 m 0'	9600 21,200	7100 15,700	14400 31,800	10900 24,000	*18700 *41,200	14650 32,400	*24850 *54,800	20950 46,200	*19900 *43,900	*19900 *43,900		
−3.0 m −9'	11500 25,400	8600 19,000	14000 30,900	10500 23,200	*18150 *40,000	14200 31,300	* 23400 *51,600	20650 45,600	*30950 *68,300	* 30950 68,300	*26100 *57,500	* 26100 *57,500
−6.0 m −19'	*12600 *27,700	*12600 *27,700			*12900 *28,500	* 12900 28,500	* 17100 *37,700	* 17100 *37,700	*21900 *48,300	* 21900 48,300		

HEAVY LIFTING "ON" Unit: kg lb

												_
A	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'	*10550 *23,200	8650 19,000	*12850 *28,400	*12850 *28,400	* 14750 *32,500	*14750 *32,500						
3.0 m 9'	9600 21,200	7250 15,900	* 15400 *34,000	12250 27,000	*19000 *41,800	* 16700 *36,900	*25300 *55,700	*23850 *52,600				
0 m 0'	9600 21,200	7100 15,700	14400 31,800	10900 24,000	19450 42,900	14650 32,400	28200 62,200	20950 46,200	*22150 *48,800	*22150 *48,800		
−3.0 m −9'	11500 25,400	8600 19,000	14000 30,900	10500 23,200	18950 41,800	14200 31,300	* 27050 59,600	20650 45,600	*35650 *78,600	35050 77,300	*28900 *63,700	*28900 *63,700
−6.0 m −19'	*14850 *32,800	14850 32,700			* 15250 *33,600	15200 33,600	*20000 *44,100	*20000 *44,100	*25600 *56,400	*25600 *56,400		

^{*} 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.



PC850SE-8

Equipment:

- Boom: **7.1 m** 23'4"
- Arm: **2.9 m** 9'8"
- Bucket: 4.3 m³ 5.62 yd³
- Shoe: **610 mm** 24"
- Counterweight: 11.85 ton 26,120 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: I	kg Ib
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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'	* 12650 *27,900	11500 25,300	* 13150 *29,000	*13150 *29,000	*14700 *32,400	*14700 *32,400						
3.0 m 9'	12500 27,500	9650 21,300	*15000 *33,100	12700 28,000	*18200 *40,100	17450 38,500	*23800 *52,500	*23800 *52,500				
0 m 0'	12800 28,200	9800 21,600	15300 33,700	11750 25,900	*20250 *44,700	15800 34,900	*26650 *58,800	22650 49,900	*28900 *63,800	*28900 *63,800		
−3.0 m −9'	*14900 *32,800	12700 28,000			*18350 *40,500	15700 34,600	*23950 *52,800	22650 49,900	*31500 *69,500	*31500 *69,500	*36900 *81,300	*36900 *81,300

HEAVY LIFTING "ON"

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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'	* 14550 *32,100	11500 25,300	* 15100 *33,300	13950 30,700	* 16800 *37,000	* 16800 *37,000						
3.0 m 9'	12500 27,500	9650 21,300	16300 35,900	12700 28,000	*20850 *45,900	17450 38,500	*27100 *59,700	25150 55,500				
0 m 0'	12800 28,200	9800 21,600	15300 33,700	11750 25,900	20650 45,500	15800 34,900	30000 66,200	22650 49,900	* 32000 *70,500	*32000 *70,500		
−3.0 m −9'	16550 36,400	12700 28,000			20500 45,200	15700 34,600	*27450 *60,500	22650 49,900	*36050 *79,500	36050 79,500	*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

PC850-8

Bucket

Specs shown include the following equipment:

Work equipment assembly (Backhoe)
Weight : PC850-8 : 18.9 t 20.8 U.S.ton
PC850SE-8 : 18.6 t 20.5 U.S.ton

PC850-8 : **8.1 t : 8380 x 2695 x 1500**

PC850SE-8 : 7.3 t : 7430 x 2695 x 1500

PC850SE-8 : 4.9 t : 4080 x 1695 x 755

PC850-8 : 3.8 t : 2390 x 1880 x 1870

PC850SE-8 : 3.9 t : 2200 x 1950 x 2255

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Boom & Arm cylinder

Total 2.5 t 2.8 U.S.ton

Base machine (Both PC850-8 and PC850SE-8 are designed

Width : **3535** 11'7" Weight : **48.1 t** 53.0 U.S.ton

Weight : 12.2 t 13.4 U.S.ton

13.1 U.S.ton

Weight : 11.9 t

8.9 U.S.ton: 27'6" x 8'10" x 4'11"

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

: 4.5 t : 4770 x 1420 x 750

5.0 U.S.ton: 15'8" x 4'8" x 2'6"

5.4 U.S.ton: 13'5" x 5'7" x 2'6"

4.2 U.S.ton: 7'10" x 6'2" x 6'2"

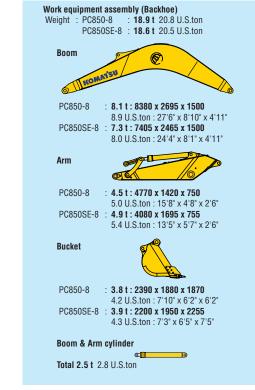
4 3 H S ton : 7'3" x 6'5" x 7'5"

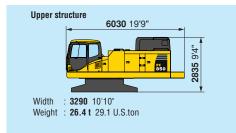
PC850-8: Boom **8040 mm** 26'5", Arm **3600 mm** 11'10", Bucket **3.4 m**³ 4.45 yd³, Shoes **610 mm** 24" double grouser

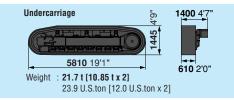
PC850SE-8: Boom **7100 mm** 23'4", Arm **2945 mm** 9'8", Bucket **4.3 m**³ 5.62 yd³, Shoes **610 mm** 24" double grouser

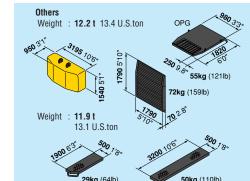
3 Kits Transportation

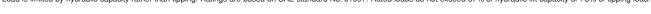
4 Kits Transportation











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