HORSEPOWER

Gross: 514 kW 688 HP / 1800 min⁻¹ **Net: 502 kW** 672 HP / 1800 min⁻¹

Net: 502 KW 6/2 HP / 1800 min

OPERATING WEIGHT

Backhoe: 106500–110700 kg 234,790–244,050 lb

Loading shovel: 110900 kg

244,490 lb

PC1250/1250SP-8R BACKHOE PC1250-8R LOADING SHOVEL

KOMATSU®

PC 1250



HYDRAULIC EXCAVATOR

WALK-AROUND

Productivity Features

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.

Excellent Reliability and Durability

- Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)
- XS Bucket Teeth offers superior penetration and long-term sharpness.
- The fuel reliability is improved by installing 2 Fuel Main-Filters and Water Separator working against low grade fuel.
- 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.



- Easy Cleaning of Cooling Unit
 Fan reverse-rotation function facilitates clogged radiator cleaning.
- Centralized Arrangement of Engine Checkpoints

KOMAT'SU

- Anti-slip Plates for improved foot traction
- Large Handrail, Step and Catwalk provide easy access to the engine and hydraulic equipment.
- *Electric Priming Pump* installed.



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 10.



HORSEPOWER
Gross: 514 kW 688 HP / 1800 min⁻¹

Net: 502 kW 672 HP / 1800 min⁻¹

OPERATING WEIGHT

Backhoe

106500-110700 kg

234,790-240,050 lb

Loading shovel

Ecology and Economy Features

- High Power Komatsu SAA6D170E-5 Engine
 - Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D170E-5 engine provides 502 kW 672 HP.
 - Offers high power and low fuel consumption.
 - Equipped with 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 Electronically controlled variable speed fan drive Large hybrid fan See page 4. KONLING



• 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.

Photo may include optional equipment.

• Two working modes combine with heavy lift mode for maximum productivity.

See page 5.

PRODUCTIVITY & ECOLOGY FEATURES

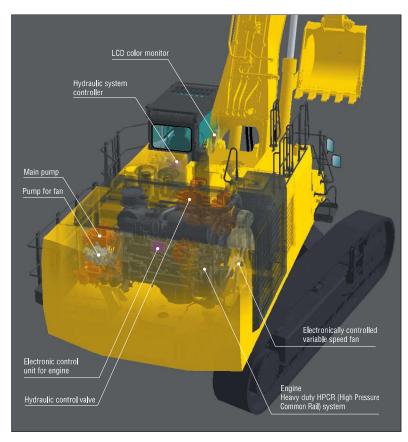
Komatsu Technology



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

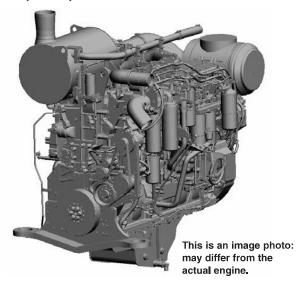
With this "Komatsu Technology," and adding customer feedback, Komatsu is achieving great advancements in technology.

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 SAA6D170E Engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D170E-5 engine provides **502 kW** 672 HP. This Komatsu SAA6D170E engine actualizes high-power to low fuel consumption with the optimum fuel injection by electronic heavy duty HPCR (High Pressure Common Rail) fuel injection system.



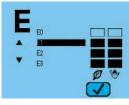
Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low Noise

The electronic control system sets the rotational speed of the cooling fan according to the coolant and hydraulic oil 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

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

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):

412 kN 42.0 ton

Maximum bucket digging force (ISO):

479 kN 48,8 ton

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 PC1250-8R 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 PC1250-8R 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/power Fast cycle time
E (E0,E1,E2,E3)	Economy Mode	Good cycle time Good fuel economy

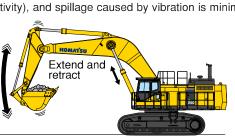
Heavy Lift Mode

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

Swing Priority Setting

select either boom or swing

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







RELIABILITY FEATURES

Excellent Reliability and Durability

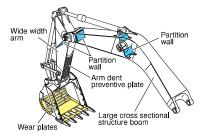
Boom Foot Hoses

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.

Circuit Breaker

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



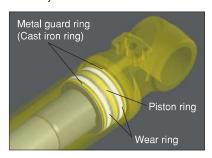
High-pressure In-line Filtration

The PC1250-8R has the most extensive filtration system available, providing inline filters as standard equipment. An inline 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.

Additional 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)

Fuel Pre-filter (with Water Separator)

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

Fuel Main-filters

The reliability of fuel systems is improved, because fuel main-filters installed remove contamination and sludge contained in fuel.



fuel main-filter

Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)

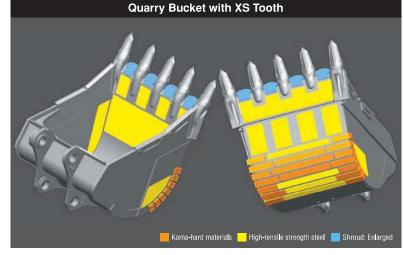
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life.

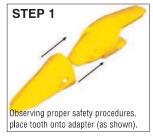
Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life XS teeth, durability of bucket is drastically enhanced.

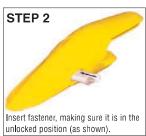
* Koma-hard materials (KVX materials):
Komatsu developed, wear-resistant, reinforced materials.
Brinell hardness: 500 or more (180kgf/mm² class),
Features high wear-resistance and little quality change from the heat generated during rock loading, maintaining long term hardness.

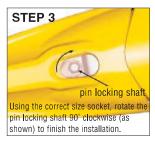
XS Tooth

- 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.)

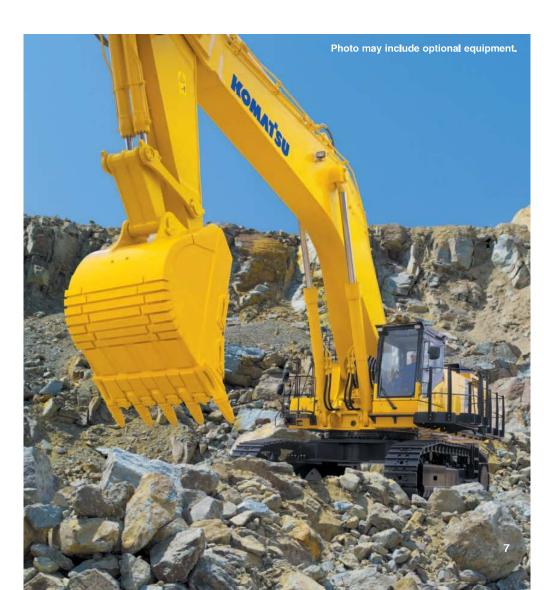












WORKING ENVIRONMENT

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

Large Comfortable Cab

Comfortable Cab

New PC1250-8R'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

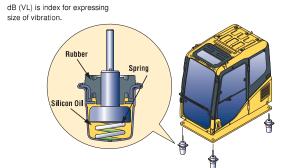
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

Low Vibration with Cab Damper Mounting

PC1250-8R 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).



Comparison of Riding Comfort

Guiiparisuii ui n	iullig Guilliult	
Cab Damper Mounting	~ /4/4444444444444444444444444444444444	Conditions: ■ Traveling over obstacle one side track ■ Traveling speed forward high
Multi-Layer Viscous Mount	- 14-14-14-14-14-14-14-14-14-14-14-14-14-1	— 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.





Washable Cab Floormat
The PC1250-8R's cab floormat
is easy to keep clean. The
gently inclined surface has a
flanged floormat and drainage
holes to facilitate runoff.

HYDRAULIC EXCAVATOR



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.



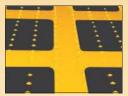
Pump/engine Room Partition prevents oil from spraying on the engine if a hydraulic hose should burst.



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

Slip-resistant Plates

Spiked plates on working surfaces provide slip-resistant performance.



Slip-resistant Plates

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

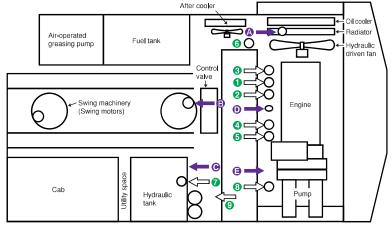
EASY MAINTENANCE FEATURES

Komatsu Designed the PC1250-8R for Easy Service Access.

Easy Checking and Maintenance

Wide center walkway provides easy access to many inspection and maintenance points. In addition, inspection and maintenance points are grouped to facilitate easy engine and hydraulic component checks.





- A Coolant
- 1 Corrosion resister
- 6 Additional water-separator

- Swing machinery
- 2 Fuel main-filter
- 7 Hydraulic drain filter

- Hydraulic tank
- 3 Engine oil filter
- 8 Pilot filter

- Engine oil
- 4 Fuel pre-filter
- Return filter

- PTO case
- 5 Additional fuel main-filter

Wide Catwalk, Large Step and **Handrails**

Easier, safer operator cab access and maintenance checks.



Easy Cleaning of Radiator The hydraulically driven fan can

reversed to facilitate cleaning of the cooling unit.



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 maintenance costs.



condition.



Convenient Utility Space

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



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

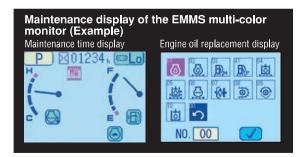
If any abnormality should occur, the monitoring system checks whether hydraulic pressures, solenoid ON/OFF status, engine speed, electrical connections, etc. are within normal condition to keep machine downtime to a minimum.

· Maintenance history memory function

Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored. Operator is warned when service is due.

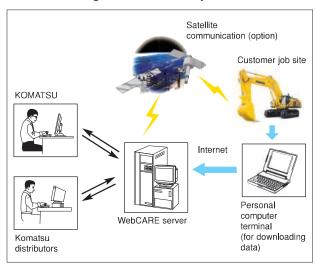
• Trouble data memory function

Trouble data is stored to serve as references for future troubleshooting. Error codes are displayed to aid in service diagnosis.



VHMS (Vehicle Health Monitoring System) (optional)

VHMS controller monitors the health conditions of major components and enables remote analysis of the machine and its operation. This contributes to reduced repair costs and to maintaining maximum availability.





SPECIFICATIONS



Model Komatsu SAA6D170E-5 Type 4-cycle, water-cooled, direct injection Aspiration Turbocharged, aftercooled Number of cylinders 6 Bore 170 mm 6.69" Stroke 170 mm 6.69" Piston displacement 23.15 ltr 1413 in³ Governor All-speed, electronic Horsepower:
SAE J1995
ISO 9249 / SAE J1349*
Rated rpm
Fan drive type
*Net horsepower at the maximum speed of radiator cooling fan is 463 kW 620HP.

iii bii Adeid di di Em
Type Open-center load-sensing system Number of selectable working modes
Main pump: Type Variable-capacity piston pumps Pumps for Boom, arm, bucket, swing, and travel circuits
Maximum flow: For implement and travel 2 x 494 ltr/min 2 x 130.5 U.S. gpm For swing
Sub-pump for control circuit
Hydraulic motors: Travel 2 x axial piston motors with parking brake Swing 2 x axial piston motors with swing holding brake
Relief valve setting: Implement circuits

Loading shovel	
Travel circuit	

Backhoe	320 kgf/cm ²	4,550 psi
Loading shovel	320 kgf/cm ²	4,550 psi
Travel circuit	350 kgf/cm ²	4,980 psi
Swing circuit	280 kgf/cm ²	3,980 psi
Pilot circuit2.9 MPa	30 kgf/cm ²	430 psi

Hydraulic cylinders:

Number of cylinders—bore x stroke

Backhoe
Doom

Boom 2 – 225 mm x 2390 mm	8.9" x 94.1'
Arm 1 – 250 mm x 2435 mm	9.8" x 95.9'
Bucket	
Std 2 – 160 mm x 1825 mm	6.3" x 71.8'
SP 2 – 160 mm x 1950 mm	6.3" x 76.8'
Loading shovel	
Boom 2 – 225 mm x 1960 mm	8.9" x 77.2'
Arm 2 – 185 mm x 1765 mm	7.3" x 69.5'
Bucket 2 – 200 mm x 1700 mm	7.9" x 66.9'
Bottom dump 2 – 160 mm x 435 mm	6.3" x 17.1'



Driven by	Hydraulic motors
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Swing lock	Oil disc brake
Swing speed	5.8 min ⁻¹



DRIVES AND BRAKES

Steering control	Two levers with pedals
Drive method	Fully hydrostatic
Travel motor	Axial piston motor, in-shoe design
Reduction system	Planetary double reduction
Maximum drawbar pull	686 kN 70000 kgf 154,320 lb
Gradeability	
Maximum travel speed	
Low	
High	
Service brake	Hydraulic lock



Center frame	H-leg frame
Track frame	Box-section
Seal of track	Sealed
Track adjuster	Hydraulic
No. of shoes	48 each side
No. of carrier rollers	3 each side
No. of track rollers	



COOLANT AND LUBRICANT

Fuel tank	1360 ltr	359.3 U.S. gal
Radiator	142 ltr	37.5 U.S. gal
Engine	86 Itr	22.7 U.S. gal
Final drive, each side	21 ltr	5.5 U.S. gal
Swing drive		
Hydraulic tank	670 ltr	177.0 U.S. gal
PTO	13.5 ltr	3.7 U.S. nal



OPERATING WEIGHT (APPROXIMATE)

PC1250-8R: Operating weight, including 9100 mm 29'10" boom, 3400 mm 11'2" arm, SAE heaped 5.0 m3 6.5 yd3 backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC1250SP-8R: Operating weight, including 7800 mm 25'7" boom, 3400 mm 11'2" arm, SAE heaped 6.7 m3 8.8 yd3 backhoe bucket, full length roller guard, operator, lubricant, coolant, full fuel tank, and the standard equipment.

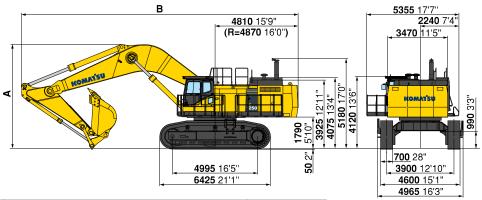
	PC12	50-8R	PC1250SP-8R			
Shoes	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure		
Double grouser 700 mm 28"	106500 kg 234,790 lb	136 kPa 1.39 kgf/cm² 19.8 psi	110700 kg 244,050 lb	141 kPa 1.44 kgf/cm² 20.4 psi		
Double grouser 1000 mm 39.4"	108810 kg 239,880 lb	97 kPa 0.99 kgf/cm² 14.1 psi	-	-		

LOADING SHOVEL

Operating weight, including 5300 mm 17'5" boom, 3800 mm 12'6" arm, 6.5 m³ 8.5 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.

	PC1250-8R								
Shoes	Operating Weight	Ground Pressure							
Double grouser 700 mm 28"	110900 kg 244,490 lb	142 kPa 1.45 kg/cm² 20.6 psi							

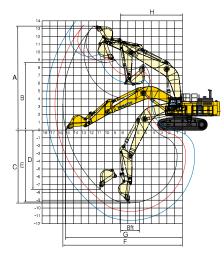




			PC1250SP-8R		
			7.8 m 25'7" boom		
		3.4 m 11 2" arm	4.5 m 14'9" arm	5.7 m 18'8" arm	3.4 m 11'2" arm
Α	Overall Height	6040 mm 19'10"	6460 mm 21'2"	6990 mm 22'11"	6265 mm 20'7"
В	Overall Length	16020 mm 52'7"	16050 mm 52'8"	15840 mm 52'0"	14790 mm 48'6"



Unit: mm ft in



				PC1250	-8R			PC1250SP-8R		
				9.1 m 29 1	0" boom			7.8 m 25 7	7" boom	
		3.4 m 11 2	arm	4.5 m 14	9" arm	5.7 m 18'8	" arm	3.4 m 11'2" arm		
А	Max. digging height	13400 mm	44'0"	13490 mm	44'3"	13910 mm	45'8"	13000 mm	42'8"	
В	Max. dumping height	8680 mm	28'6"	9000 mm	29'6"	9440 mm	31'0"	8450 mm	27'9"	
С	Max. digging depth	9350 mm	30'8"	10440 mm	34'3"	11590 mm	38'0"	7900 mm	25'11"	
D	Max. vertical wall digging depth	7610 mm	25'0"	8490 mm	27'10"	9480 mm	31'1"	5025 mm	16 ' 6"	
E	Max. digging depth of cut for 8' level	9220 mm	30'3"	10340 mm	33'11"	11500 mm	37'9"	7745 mm	25'5"	
F	Max. digging reach	15350 mm	50'4"	16340 mm	53'7"	17450 mm	57'3"	14070 mm	46 ' 2"	
G	Max. digging reach at ground level	15000 mm	49'3"	16000 mm	52'6"	17130 mm	56'2"	13670 mm	44'10"	
Н	Min. swing radius	7965 mm	26'2"	7990 mm	26'3"	8150 mm	26'9"	6415 mm	21'1"	
Bu	cket digging force (SAE)	422 k 43000 kgf / 9		422 k 43000 kgf / 9		343 kl 35000 kgf / 7		502 I 51200 kgf / 1		
Ar	m crowd force (SAE)	392 k 40000 kgf / 8		327 k 33300 kgf / 7		281 kl 28700 kgf / 6		395 I 40300 kgf /		
Bu	cket digging force (ISO)	479 k 48800 kgf / 1		479 k 48800 kgf / 1		389 ki 39700 kgf / 8		570 58100 kgf / 1		
Ar	m crowd force (ISO)	412 k 42000 kgf / 9		337 k 34400 kgf / 7		286 kl 29200 kgf / 6		412 I 42000 kgf /		



BACKHOE BUCKET, ARM, AND BOOM COMBINATION

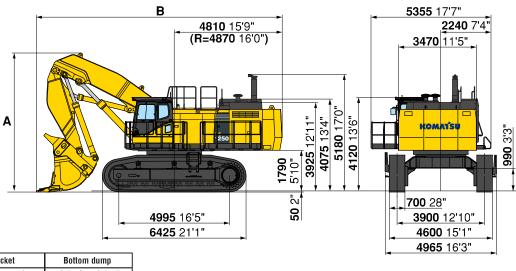
BUCKET CAPA	CITY (HEAPED)	WII	OTH				
SAE, PCSA m³ yd³	CECE m³ yd³	Without Side cutters or shrouds mm in	With Side cutters or shrouds mm in	WEIGHT (with side cutters) kg lb	ARM LENGTH m ft in		
PC1250-8 (use with 9).1 m boom)				3.4 11'2"	4.5 14'9"	5.7 18'8"
3.4 4.4	3.0 3.9	1500 59"	1670 65.7"	3550 7,830	_	0	
4.0 5.2	3.5 4.6	1710 67.3"	1880 74"	3820 8,420	0		A
5.0 6.5	4.3 5.6	2050 80.7"	2220 87.4"	4370 9,640		A	_
5.2 6.8	4.5 5.9	2050 80.7"	2110 83.1"	5780 12,750		A	_
PC1250SP-8 (use wit	h 7.8 m boom)				3.4 11 2"	_	_
6.7 8.8	5.9 7.7	2280 69.8"	2340 92.1"	6500 14,330		_	_

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

[∴] General purpose use, density up to **2.1 t/m**³ 3,500 lb/yd³ ☐: General purpose use, density up to **1.8 t/m**³ 3,000 lb/yd³

^{▲:} General purpose use, density up to 1.5 t/m³ 2,500 lb/yd³

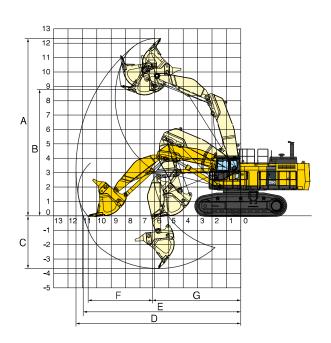
^{-:} Not useable



Ty	pe of bucket	Bottom o	lump
Ca	pacity-heaped	6.5 m³	8.5 yd³
Α	Overall Height	6200 mm	20'4"
В	Overall Length	10940 mm	35'11"



LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION

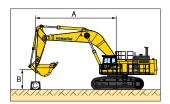


Working Range

Typ	oe of bucket	Bottom dump
Ca	pacity–heaped	6.5 m³ 8.5 yd³
Α	Max. cutting height	12330 mm 40'5"
В	Max. dumping height	8700 mm 28 ' 7"
С	Max. digging depth	3650 mm 12'0"
D	Max. digging reach	11400 mm 37'5"
Ε	Max. digging reach at ground level	10900 mm 35'9"
F	Level crowding distance	4480 mm 14'8"
G	Min. crowd distance	6130 mm 20'1"
	Bucket digging force	579 kN 59000 kgf / 130,100 lb
	Arm crowd force	608 kN 62000 kgf / 136,710 lb

Bucket Selection

Type of bucket	Bottom dump
Capacity-heaped	6.5 m³ 8.5 yd³
Width (with side shrouds)	2700 mm 106.3"
Weight	9730 kg 21,450 lb
No. of bucket teeth	6
Recommended uses	General-purpose digging and loading



PC1250-8R

Equipment:

• Boom: **9.1 m** 29'10" • Arm: 3.4 m 11'2" • Bucket: **5.0 m**³ 6.5 yd³

Bucket weight: 4400 kg 9,700 lb
Track shoe width: 700 mm 28"

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

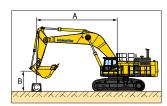
Cf: Rating over front Cs: Rating over side

: Rating at maximum reach

Unit: kg lb

	A	↔ Ma	ximum	12.2	m 40'	10.7	m 35'	9.1 n	n 30'	7.6 r	n 25'	6.1 r	n 20'	4.6 m	n 15'
	В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
	9.1 m 30'	*1 5200 *33,500	* 15200 *33,500			*18000 *39,700	*18000 *39,700								
_	6.1 m 20'	*15950 *35,100	13200 29,100			*20050 *44,200	17400 38,400	*22950 *50,600	*22950 *50,600	*27900 *61,500	*27900 *61,500				
Lift On	3.0 m 10'	15650 34,500	11850 26,200	16400 36,100	12500 27,500	20850 46,000	16100 35,500	27000 59,500	20850 46,000	*34950 *77,100	27650 60,900				
Heavy	0.0 m 0'	16250 35,900	12300 27,100			19950 44,000	15200 33,500	24200 53,400	18200 40,200	34400 75,800	26100 57,500				
	−3.0 m −10'	19950 44,000	15250 33,600			20000 44,100	15250 33,700	25600 56,400	19550 43,100	34600 76,300	26300 57,900	*43850 *96,700	38400 84,700	*39250 *86,600	*39250 *86,600
	−6.1 m −20'	*23500 *51,800	*23500 *51,800							*25400 *56,100	*25400 *56,100	*32550 *71,800	*32550 *71,800		
	9.1 m 30'	*15200 *33,500	*15200 *33,500			*15500 *34,200	*15500 *34,200								
#O	6.1 m 20'	*15850 *34,900	13200 29,100			*17300 *38,100	*17300 *38,100	*19950 *44,000	*19950 *44,000	*24400 *53,800	*24400 *53,800				
Heavy Lift (3.0 m 10'	15650 34,500	11850 26,200	16400 36,100	12500 27,500	*19800 *43,700	16100 35,500	*23900 *52,700	20850 46,000	*30550 *67,400	27650 60,900				
Heav	0.0 m 0'	16250 35,900	12300 27,100			19950 44,000	15200 33,500	24200 53,400	18200 40,200	*32650 *72,000	26100 57,500				
	−3.0 m −10'	*19600 *43,200	15250 33,600			*19650 *43,300	15250 33,700	*24750 *54,600	19550 43,100	*30750 *67,800	26300 57,900	*38350 *84,500	*38350 *84,500	*39250 *86,600	*39250 *86,600
	−6.1 m −20'	*20150 *44,500	*20150 *44,500							*21900 *48,200	*21900 *48,200	*28150 *62,100	*28150 *62,100		

^{*} 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.



PC1250-8R

Equipment:

• Boom: **9.1 m** 29'10"

• Arm: **4.5 m** 14'9" • Bucket: **4.0 m**³ 5.2 yd³

• Bucket weight: 3800 kg 8,380 lb

• Track shoe width: **700 mm** 28"

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

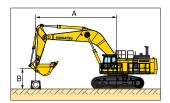
Cs: Rating over side

: Rating at maximum reach

Unit: kg lb

	А	€ Ma	ximum	12.2	m 40'	10.7	m 35'	9.1 n	n 30'	7.6 n	n 25'	6.1 r	n 20'	4.6 n	n 15'
	В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
	9.1 m 30'	*9300 *20,500	*9300 *20,500												
	6.1 m 20'	*9650 *21,300	*9650 *21,300	*16650 *36700	13700 30,200	*18150 *40,000	18000 39,700	*20550 *45,400	*20550 *45,400						
Heavy Lift On	3.0 m 10'	*10950 *24,200	10200 22,500	16650 36,700	12750 28,100	21200 46,700	16400 36,100	*25600 *56,500	21300 47,000	*32350 *71,400	28500 62,800				
Heavy	0.0 m 0'	*13650 *30,100	10400 23,000	15850 34,900	11950 26,400	19900 43,900	15150 33,400	24550 54,100	18500 40,800	34,450 75,900	26100 57,600	*29300 *64,600	*29300 *64,600		
	−3.0 m −10'	16400 36,200	12400 27,300			19550 43,100	14800 32,600	25100 55,400	19050 42,000	34000 75,000	25700 56,600	*46350 *102,200	37500 82,600	*31900 *70,300	*31900 *70,300
	−6.1 m −20'	*21750 *48,000	18700 41,300					*23650 *52,100	20000 44,100	*28850 *63,600	25200 55,500	*38200 *84,300	*38200 *84,300	*48900 *107,800	*48900 *107,800
	9.1 m 30'	*9300 *20,500	*9300 *20,500												
	6.1 m 20'	*9650 *21,300	*9650 *21,300	*14250 *31,400	13700 30,200	*15600 *34,400	*15600 *34,400	*17850 *39,300	*17850 *39,300						
∏ O#	3.0 m 10'	*10950 *24,200	10200 22,500	*16050 *35,400	12750 28,100	*18500 *40,800	16400 36,100	*22250 *49,000	21300 47,000	*28250 *62,300	*28250 *62,300				
Heavy Lift	0.0 m 0'	*13650 *30,100	10400 23,000	15850 34,900	11950 26,400	19900 43,900	15150 33,400	*24200 *53,300	18500 40,800	*31950 *70,400	26100 57,600	*29300 *64,600	*29300 *64,600		
	-3.0 m -10'	16400 36,200	12400 27,300			19550 43,100	14800 32,600	25100 55,400	19050 42,000	*31650 *69,800	25700 56,600	*40550 *89,400	37500 82,600	*31900 *70,300	*31900 *70,300
	−6.1 m −20'	*18650 *41,100	18650 41,100					*20300 *44,800	20000 44,100	*24800 *54,700	24800 54,700	*33200 *73,200	*33200 *73,200	*42600 *93,900	*42600 *93,900

^{*} 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.



PC1250-8R

Equipment:

Boom: 9.1 m 29'10"
Arm: 5.7 m 18'8"
Bucket: 3.4 m³ 4.4 yd³
Bucket weight: 3600 kg 7,940 lb

• Track shoe width: 700 mm 28"

A: Reach from swing center
B: Bucket hook height

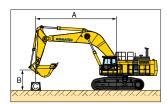
C: Lifting capacity

Cf: Rating over front Cs: Rating over side

Unit: kg lb

	A	↔ Ma	ximum	13.7	m 45'	12.2	m 40'	10.7	m 35'	9.1 :	n 30'	7.6 ו	n 25'	6.1 r	n 20'
	В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
	9.1 m 30'	*5900 *13,000	*5900 *13,000												
	6.1 m 20'	*6050 *13,400	*6050 *13,400	*11050 *24,300	10950 24,100	*14950 *32,900	14350 31,600								
Lift On	3.0 m 10'	*6800 *15,000	*6800 *15,000	13550 29,900	10250 22,600	17050 37,600	13100 28,900	*19800 *43,700	16900 37,200	*23450 *51,700	22050 48,600	*29300 *64,600	*29300 *64,600	* 39750 *87,600	*39750 *87,600
Heavy	0.0 m 0'	*8400 *18,500	*8400 *18,500	12850 28,400	9600 21,100	15950 35,200	12050 26,600	20,100 44,300	15300 33,800	25900 57,100	19800 43,600	34800 76,700	26450 58,300	*31200 *68,800	*31200 *68,800
	−3.0 m −10'	*11500 *25,400	10150 22,400			15500 34,100	11600 25,600	19300 42,600	14600 32,100	24850 54,800	18800 41,500	33600 74,100	25300 55,800	*47600 *105,000	36800 81,100
	−6.1 m −20'	18600 41,000	14100 31,100					19750 43,500	15000 33,000	25200 55,600	19150 42,200	*33250 *73,300	25850 56,900	* 42350 *93,300	37850 83,400
	9.1 m 30'	*5900 *13000	*5900 *13000												
	6.1 m 20'	*6050 *13,400	*6050 *13,400	*11050 *24,300	10950 24,100	*12700 *28,000	*12700 *28,000								
Lift Off	3.0 m 10'	*6800 *15,000	*6800 *15,000	*13350 *29,500	10250 22,600	*14850 *32,800	13100 28,900	*17050 *37,600	16900 37,200	*20300 *44,800	*20300 *44,800	*25550 *56,300	*25550 *56,300	*34850 *76,800	*34850 *76,800
Heavy	0.0 m 0'	*8400 *18,500	*8400 *18,500	12850 28,400	9600 21,100	15950 35,200	12050 26,600	*19700 *43,400	15300 33,800	*24000 *53,000	19800 43,600	*30600 *67,500	26450 58,300	*31200 *68,800	*31200 *68,800
	-3.0 m -10'	*11500 *25,400	10150 22,400			15500 34,100	11600 25,600	19300 42,600	14600 32,100	24850 54,800	18800 41,500	*31900 *70,300	25300 55,800	*41650 *91,800	36600 81,100
	-6.1 m −20'	* 16550 *36,500	14100 31,100					*18050 *39,800	15000 33,000	*22950 *50,600	19150 42,200	*28850 *63,600	25850 56,900	*36900 *81,300	*36900 *81,300

^{*} 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.



PC1250SP-8R

Equipment:

Boom: 7.8 m 25'7"
Arm: 3.4 m 11'2"
Bucket: 6.7 m³ 8.8 yd³

Bucket weight: 6300 kg 13,890 lb
Track shoe width: 700 mm 28"

A: Reach from swing centerB: Bucket hook heightC: Lifting capacity

Cf: Rating over front Cs: Rating over side

Rating at maximum reach

Unit: **kg l**b

	A	€ Ma	ximum	12.2	m 40'	10.7	m 35'	9.1 n	n 30'	7.6 r	n 25'	6.1 n	n 20'	4.6 n	n 15'
	В	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
	9.1 m 30	*11700 *25,800	*11700 *25,800					*17050 *37,600	*17050 *37,600						
_	6.1 m 20'	*12250 *27,000	*12250 *27,000			*16300 *35,900	16100 35,600	*24350 *53,700	22600 49,800	*28750 *63,400	*28750 *63,400	*36350 *80,100	*36350 *80,100		
/ Lift On	3.0 m 10'	*14600 *32,200	13700 30,200			20150 44,400	15300 33,800	26950 59,500	20750 45,700	*33850 *74,700	27000 59,600	*47450 *104,600	41150 90,700		
Heavy	0.0 m 0'	19300 42,600	14550 32,000			19400 42,800	14600 32,200	25600 56,400	19450 42,900	31750 70,000	23500 51,800	*48750 *107,500	38650 85,200		
	−3.0 m −10'	*23900 *52,700	19550 43,100					*23950 *52,900	19550 43,100	*30750 *67,800	24850 54,800	*41450 *91,300	39,250 86,500	*52450 *115,700	*52450 *115,700
	−6.1 m −20'														
	9.1 m 30	*11700 *25,800	*11700 *25,800					*17050 *37,600	*17050 *37,600						
	6.1 m 20'	*12250 *27,000	*12250 *27,000			*16300 *35,900	16100 35,600	*21150 *46,600	*21150 *46,600	*25150 *55,500	*25150 *55,500	*32100 *70,800	*32100 *70,800		
Lift Off	3.0 m 10'	*14600 *32,200	13700 30,200			20150 44,400	15300 33,800	*24450 *54,000	20750 45,700	*29450 *65,000	27000 59,600	*41750 *92,000	41150 90,700		
Heavy	0.0 m 0'	19300 42,600	14550 32,000			19400 42,800	14600 32,200	25600 56,400	19450 42,900	*29900 *65,900	23500 51,800	*42750 *94,300	38650 85,200		
	−3.0 m −10'	*20500 *45,200	19550 43,100					*20550 *45,300	19550 43,100	*26450 *58,300	24850 54,800	*36100 *79,600	*36100 *79,600	*45800 100,800	*45800 100,800
	−6.1 m −20'														

^{*} 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 volume (length x height x width)

Specs shown include the following equipment:

Backhoe: boom 9100 mm 29'10", arm 3400 mm 11'2", bucket 5.0 m3 6.5 yd3, shoes 700 mm 28" double grouser

Work equipment assembly (Backhoe)

Weight: PC1250-8R : **25.3t** 27.9U.S.ton PC1250SP-8R: **27.7t** 30.5U.S.ton



PC1250-8R : 11.2t : 9475 x 2894 x 1474

12.3U.S.ton: 31'1" x 9'6" x 4'10"

PC1250SP-8R: 11.1t: 8170 x 3095 x 1474

12.2U.S.ton: 26'10" x 10'2" x 4'10"

Arm



PC1250-8R 5.9t: 4895 x 1626 x 890

6.5U.S.ton: 16'1" x 5'4" x 2'11"

6.2t : 4895 x 1626 x 890(Heavy-duty version)

6.8U.S.ton: 16'1" x 5'4" x 2'11"

PC1250SP-8R: 6.4t: 4914 x 1683 x 890

7.1U.S.ton: 16'1" x 5'6" x 2'11"

Bucket



PC1250-8R : 4.3t : 2700 x 2100 x 2050

4.7U.S.ton : 8'10" x 6'11" x 6'9" : **5.5t** : **2580** x **2276** x **2250**(Heavy-duty version)

6.1U.S.ton: 8'6" x 7'6" x 7'5"

PC1250SP-8R: 6.3t: 2527 x 2420 x 2520

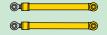
6.9U.S.ton: 8'3" x 7'11" x 8'3"

Arm cylinder



Boom cylinder

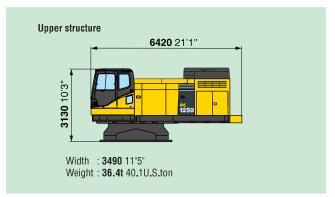
1.5t

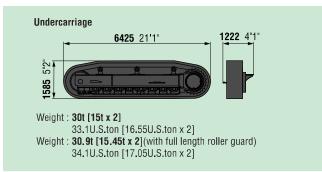


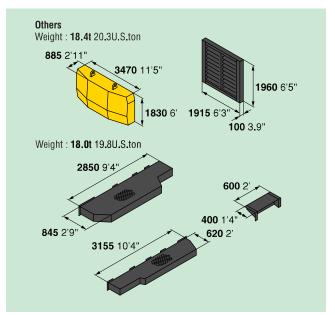
Length: 3810 12'6"

2.4t [1.2t x 2]

2.64U.S.ton [1.32U.S.ton x 2]







ENGINE AND RELATED ITEMS:

- · Air cleaner, double element, dry
- Variable speed cooling fan, with fan guard
- Engine, Komatsu SAA6D170E-5

ELECTRICAL SYSTEM:

- Alternator, 60 amp, 24 V
- Batteries, 220 Ah, 2 x 12 V
- Starting motors, 11kW x 2
- Working lights-2 boom, 2 cab top front, 1 machine cab bottom, 1 cab LH(Step light with timer)
- Auto decelerator

UNDERCARRIAGE:

- 700 mm 28" double grouser
- 8 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

GUARDS AND COVERS:

- Dust-proof net for radiator and oil cooler
- Pump/engine room partition wall
- Travel motor guards
- Revolving frame under cover (Heavy-duty)

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
- Instrument panel with electronic display/monitor system, electronically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic 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), selfdiagnostic system with trouble data memory
- · Rearview mirrors, left and right
- 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)
- One gear pump for control circuit
- Two axial piston motors for swing with single-stage relief valve
- One axial piston motor per track for travel with counter balance valve
- Three variable capacity piston pumps
- Three control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- 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 high pressure filters
- Shockless boom control
- Two-mode setting for boom

DRIVE AND BRAKE SYSTEM:

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

OTHER STANDARD EQUIPMENT:

- Automatic swing holding brake
- Corrosion resister
- Counterweight, 18000 kg 39,680 lb
- Horn, air
- Marks and plates, English
- Paint, Komatsu standard
- Vandalism protection locks
- Wide catwalk
- Large handrails
- One-touch engine oil drainage
- PM tune-up service connector
- Travel alarm
- Rear reflector
- Slip-resistant plates

OPTIONAL EQUIPMENT

- Alternator, 90 Amp, 24 V
- Arms (Backhoe):
 - -3400mm 11'2" arm assembly
 - -3400mm 11'2" HD arm assembly
 - -3400mm 11'2" SP arm assembly
 - **—4500mm** 14'9" arm assembly
 - -4500mm 14'9" HD arm assembly
 - -5700mm 18'8" arm assembly
- Arms (Loading shovel):
 - -3800mm 12'6" arm assembly
- Auto air conditioner
- Automatic grease system, Lincoln 18 ltr
- · Booms (Backhoe):
 - —7800mm 25'7" SP boom assembly
- —**9100mm** 29'10" boom assembly
- Booms (Loading shovel):
- —5300mm 17'5" boom assembly

- Cab with pull-up type front window
- Cab with pall-up type from window
 Communication system for VHMS (Orbcomm)
- General tool kit
- Grease gun, air pump
- Heater
- Interconnected horn and flashing light
- Radio AM/FM
- Seat belt **78 mm** 3"
- Shoes
 - -1000 mm 39.4" double grouser
- Spare parts for first service
- Track roller guard (full length)
- Track frame undercover (center)
- Vehicle Health Monitoring System (VHMS)

M E M O

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