

KOMATSU®

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

ecot3

PC
1250

HORSEPOWER

Gross:514 kW 688 HP @ 1800 rpm

Net:502 kW 672 HP @ 1800 rpm

OPERATING WEIGHT

Backhoe:106500-110700 kg

234,790-244,050 lb

Loading shovel:110900 kg

244,490 lb



Photo may include optional equipment.

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)**
- **KMAX Bucket Teeth** offer superior penetration and long-term 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.



Easy Maintenance

- **Easy Cleaning of Cooling Unit**
Fan reverse-rotation function facilitates clogged 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.

See page 10.

- **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 SAA6D170E-5 Engine Meets Tier 3 Emissions Certified.**
 - 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 certified.
 - 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**

- Electronically controlled variable speed fan drive
- Large hybrid fan
- Glasswool-furnished low-noise muffler and noise reducing cover around the muffler

See page 4.

HORSEPOWER

Gross:514 kW 688 HP @ 1800 rpm

Net:502 kW 672 HP @ 1800 rpm

OPERATING WEIGHT

Backhoe

106500 – 110700 kg

234,790 – 240,050 lb

Loading shovel

110900 kg

244,490 lb



Photo may include optional equipment.

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.

See pages 8, 9.



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.

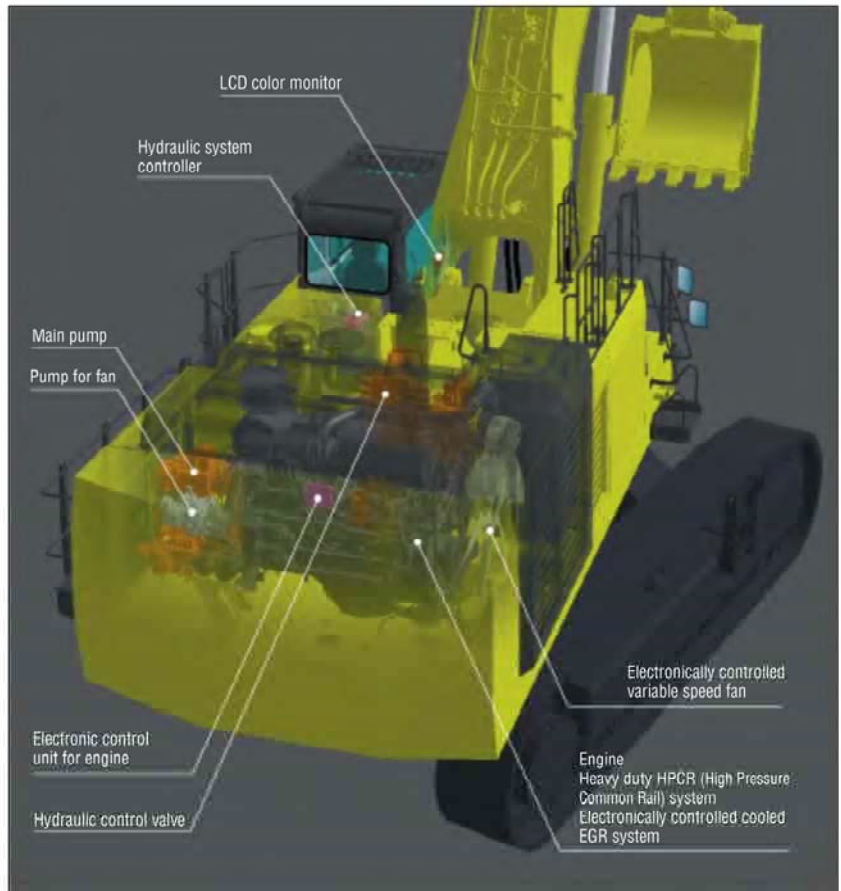
PRODUCTIVITY & ECOLOGY FEATURES

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 PC1250-8, which is equipped with the Komatsu SAA6D170E-5 engine, meets the Tier 3 emission certified in North America (EPA) and EU stage 3A. The SAA6D170E-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.



This is an image photo: may differ from the actual engine.

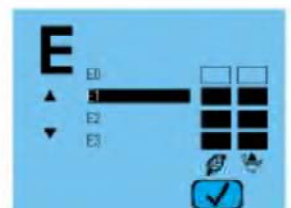
Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low Noise

The electronic control system sets the rotational speed of the cooling fan according to the coolant, 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

Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan, low-noise muffler and cover with glasswool. Komatsu will launch PC1250 with lower-noise specifications to the EU market.

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

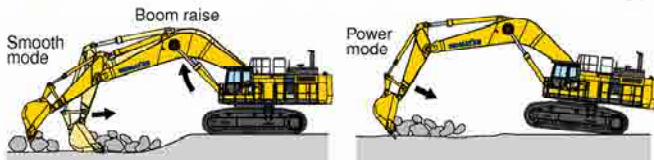
Maximum bucket digging force (ISO):
479 kN 48.8 ton

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.

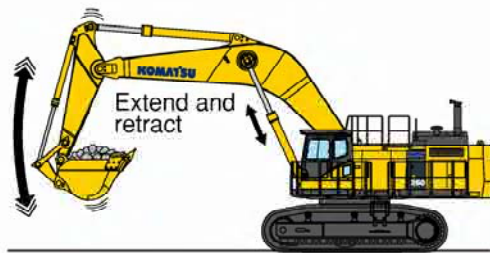
Two-mode Setting for Boom

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 PC1250-8 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 PC1250-8 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 |
|---------------------------|--------------|---|
| P | Power Mode | <ul style="list-style-type: none"> • Maximum production/power • Fast cycle time |
| E (E0,E1,E2,E3) | Economy Mode | <ul style="list-style-type: none"> • Good cycle time • Good fuel economy |

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.



RELIABILITY FEATURES

Excellent Reliability and Durability

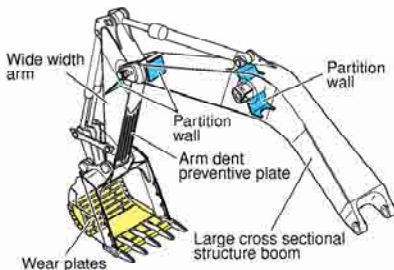
Boom Foot Hoses

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.

Fuel Pre-filter (with Water Separator)

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



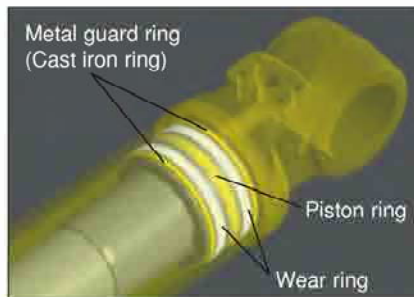
High-pressure In-line Filtration

The PC1250-8 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.



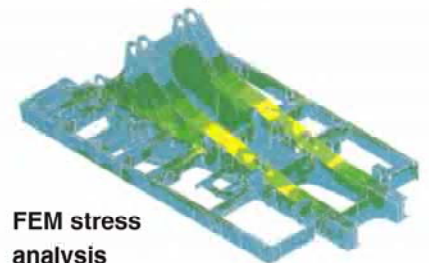
Sturdy guards shield the travel motors and piping against damage from rocks.



Track roller guard (full length) (optional)

Tough strengthened frame structure

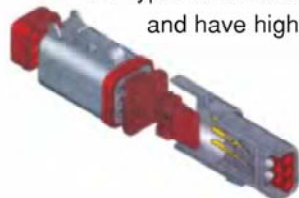
Strengthened revolving frame, center frame and crawler frame endure heavy-duty works and exhibit their excellent durability.



FEM stress analysis

DT-type Connectors

DT-type connectors seal tight and have higher reliability.



Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)

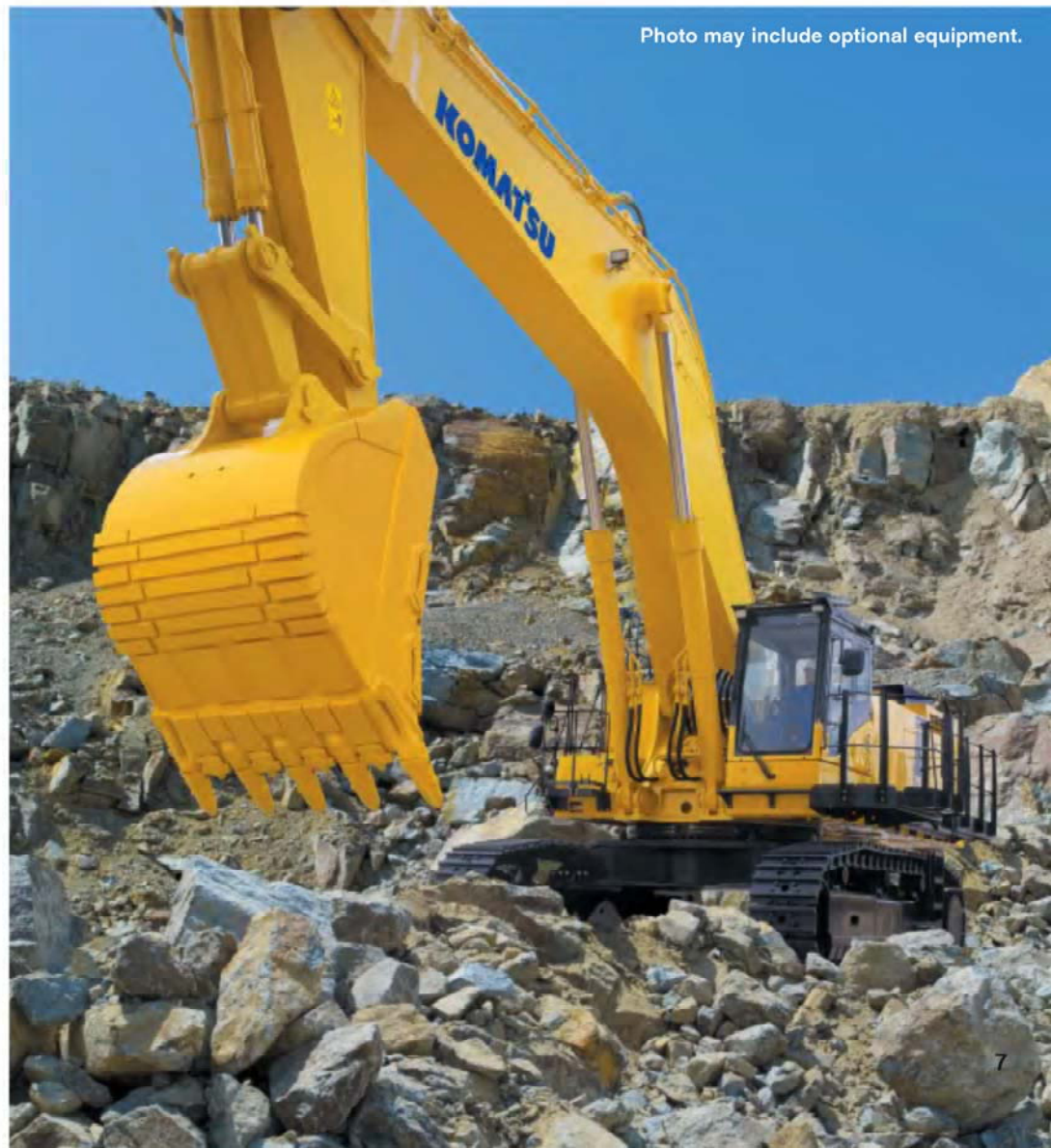
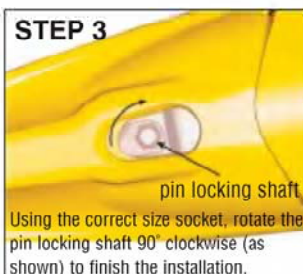
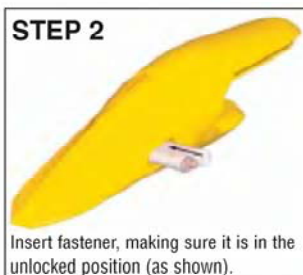
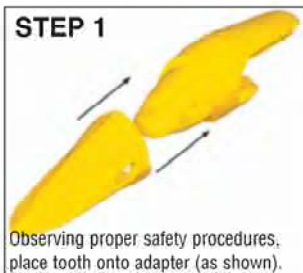
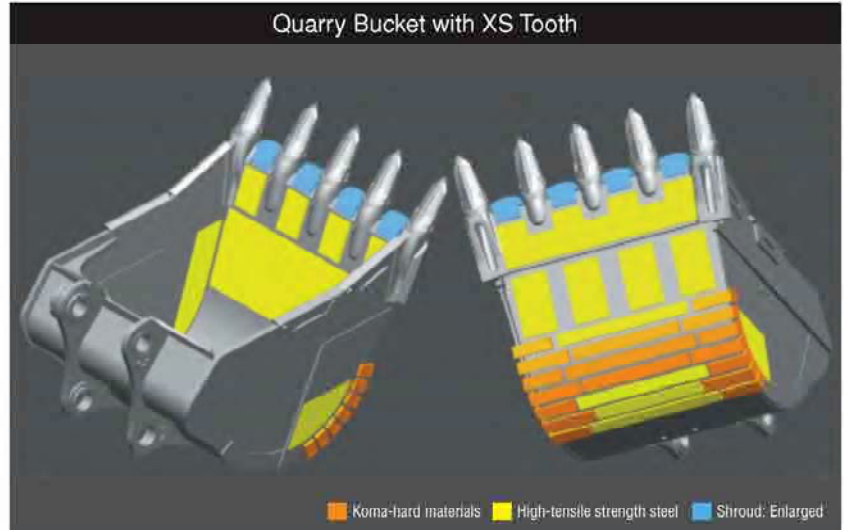
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life.

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

* Koma-hard materials (KVV 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 PC1250-8'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

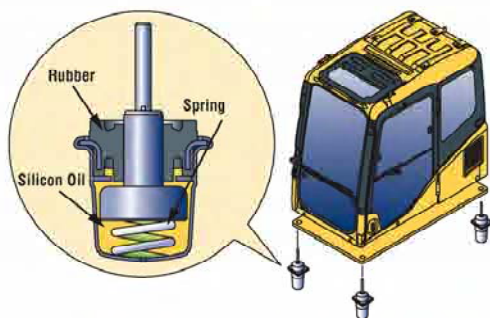
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

Low Vibration with Cab Damper Mounting

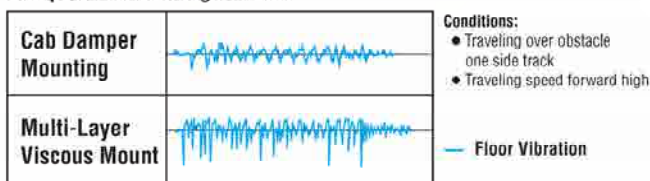
PC1250-8 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck, aids vibration reduction at the operator's seat.

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

dB (VL) is index for expressing size of vibration.



Comparison of Riding Comfort



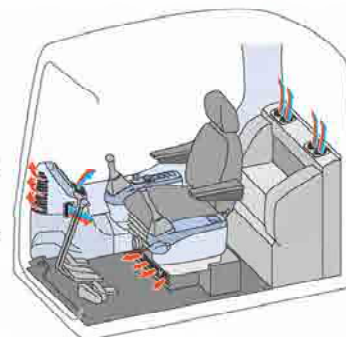
Vertical direction on graph shows size of vibration.



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

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.

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.



Seat with headrest reclined full flat

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



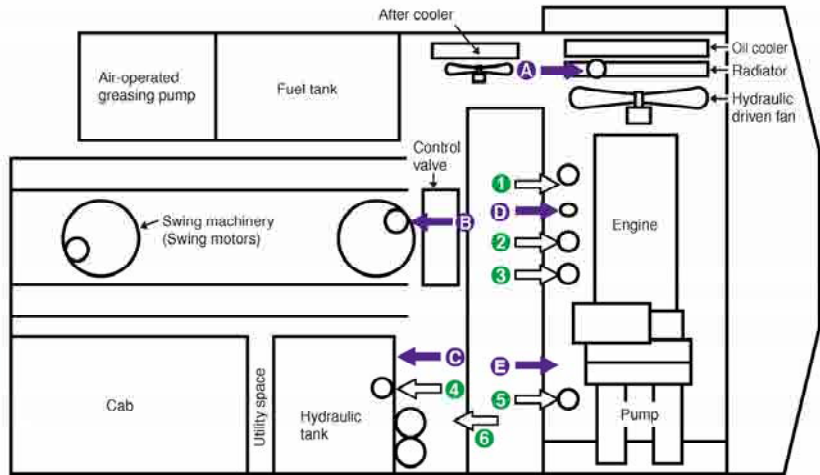
Bottle Holder and Magazine Rack

EASY MAINTENANCE FEATURES

Komatsu Designed the PC1250-8 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
- B** Swing machinery
- C** Hydraulic tank
- D** Engine oil
- E** PTO case
- 1** Corrosion resister
- 2** Fuel filter
- 3** Engine oil filter
- 4** Hydraulic drain filter
- 5** Pilot filter
- 6** Return filter

Wide Catwalk, Large Step and Handrails

Easier, safer operator cab access and maintenance checks.



Easy Cleaning of Radiator

The hydraulically driven fan can be reversed to facilitate cleaning of the cooling unit. In addition, this feature contributes to reducing warm-up time in low temperatures.



Convenient Utility Space

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



Reduced Maintenance Costs

Hydraulic oil filter replacement is extended from 500 to 1000 hours.



Dust Indicator with 5-step Indication

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



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 process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.

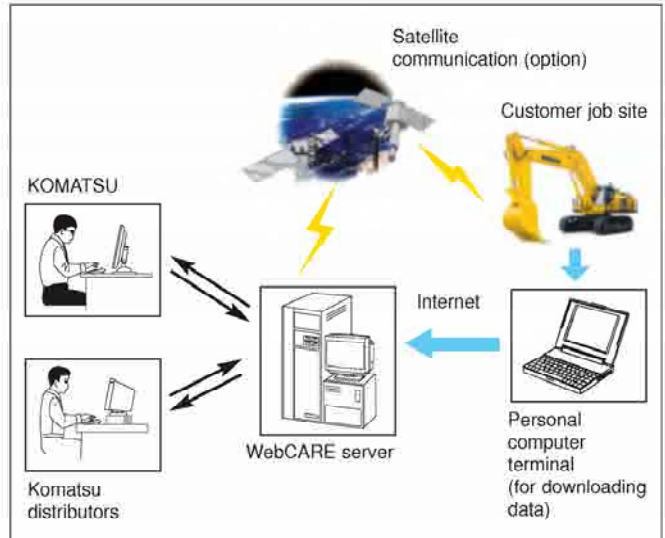
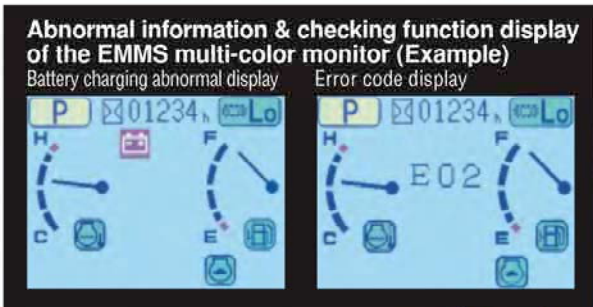
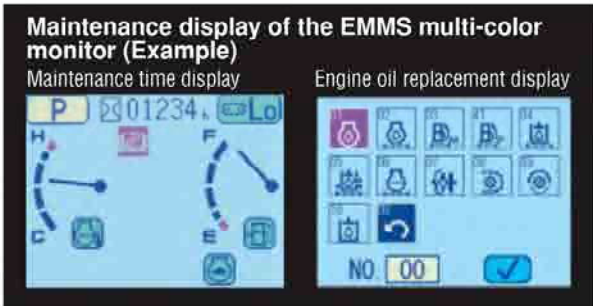


Photo may include optional equipment.

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D170E-5
 Type 4-cycle, water-cooled, direct injection
 Aspiration Turbocharged, aftercooled, cooled EGR
 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 Gross **514 kW** 688 HP
 ISO 9249 / SAE J1349* Net **502 kW** 672 HP
 Rated rpm 1800 rpm
 Fan drive type Hydraulic

EPA Tier 3 and EU stage 3A emission certified.
 *Net horsepower at the maximum speed of radiator cooling fan is 463 kW 620HP.



HYDRAULIC SYSTEM

Type Open-center load-sensing system
 Number of selectable working modes 2

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 **1 x 600 ltr/min** 1 x 158.5 U.S. gpm

Sub-pump for control circuit Gear pump

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
 Backhoe **31.4 MPa** 320 kgf/cm² 4,550 psi
 Loading shovel **31.4 MPa** 320 kgf/cm² 4,550 psi
 Travel circuit **34.3 MPa** 350 kgf/cm² 4,980 psi
 Swing circuit **27.5 MPa** 280 kgf/cm² 3,980 psi
 Pilot circuit **2.9 MPa** 30 kgf/cm² 430 psi

Hydraulic cylinders:
 Number of cylinders—bore x stroke
 Backhoe
 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"



SWING SYSTEM

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



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 70%
 Maximum travel speed
 Low **2.1 km/h** 1.3 mph
 High **3.2 km/h** 2.0 mph
 Service brake Hydraulic lock



UNDERCARRIAGE

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 8 each side



COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank **1360 ltr** 359.3 U.S. gal
 Radiator **142 ltr** 37.5 U.S. gal
 Engine **86 ltr** 22.7 U.S. gal
 Final drive, each side **21 ltr** 5.5 U.S. gal
 Swing drive **20 x 2 ltr** 5.3 x 2 U.S. gal
 Hydraulic tank **670 ltr** 177.0 U.S. gal
 PTO **13.5 ltr** 3.7 U.S. gal



OPERATING WEIGHT (APPROXIMATE)

BACKHOE
 PC1250-8: 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-8: 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.

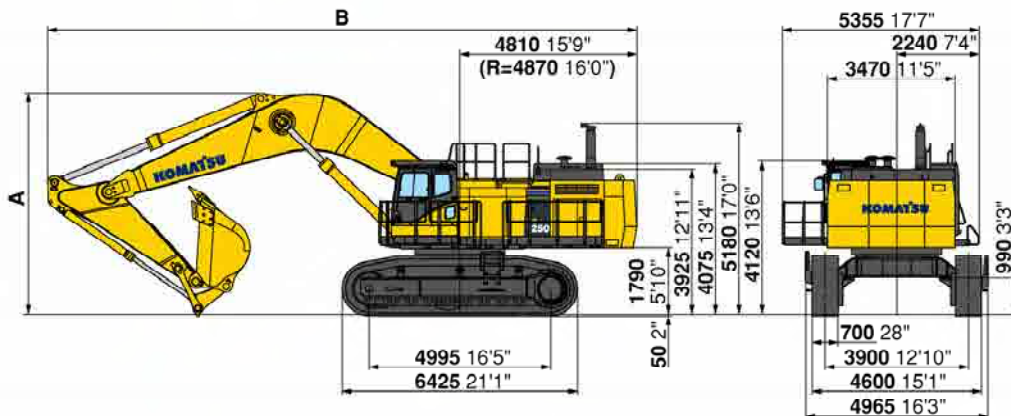
| Shoes | PC1250-8 | | PC1250SP-8 | |
|------------------------------------|--------------------------------|--|--------------------------------|--|
| | Operating Weight | Ground Pressure | Operating Weight | Ground Pressure |
| Double grouser 700 mm 28" | 106500 kg 234,790 lb | 136 kPa 1.39 kgf/cm ² 19.8 psi | 110700 kg 244,050 lb | 141 kPa 1.44 kgf/cm ² 20.4 psi |
| Double grouser 1000 mm 39.4" | 108810 kg 239,880 lb | 97 kPa 0.99 kgf/cm ² 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.

| Shoes | PC1250-8 | |
|---------------------------------|--------------------------------|--|
| | Operating Weight | Ground Pressure |
| Double grouser 700 mm 28" | 110900 kg 244,490 lb | 142 kPa 1.45 kgf/cm ² 20.6 psi |



BACKHOE DIMENSIONS

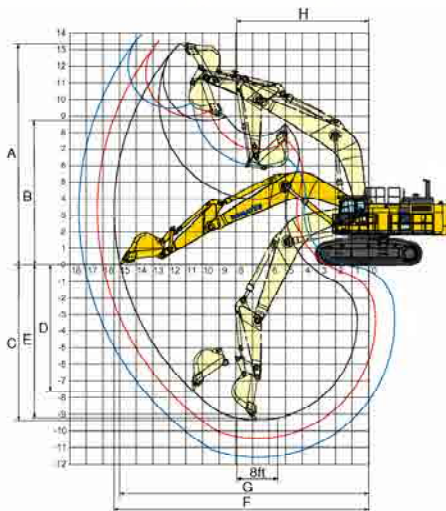


| | PC1250-8 | | | PC1250SP-8 |
|------------------|-------------------|-----------------|-----------------|------------------|
| | 9.1 m 29'10" boom | | | 7.8 m 25'7" boom |
| | 3.4 m 11'2" arm | 4.5 m 14'9" arm | 5.7 m 18'8" arm | 3.4 m 11'2" arm |
| A Overall Height | 6040 mm 19'10" | 6460 mm 21'2" | 6990 mm 22'11" | 6265 mm 20'7" |
| B Overall Length | 16020 mm 52'7" | 16050 mm 52'8" | 15840 mm 52'0" | 14790 mm 48'6" |



WORKING RANGE

Unit: mm ft in



| | PC1250-8 | | | PC1250SP-8 |
|--|----------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | 9.1 m 29'10" boom | | | 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 |
| A Max. digging height | 13400 mm 44'0" | 13490 mm 44'3" | 13910 mm 45'8" | 13000 mm 42'8" |
| B Max. dumping height | 8580 mm 28'6" | 9000 mm 29'6" | 9440 mm 31'0" | 8450 mm 27'9" |
| C 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" |
| H Min. swing radius | 7965 mm 26'2" | 7990 mm 26'3" | 8150 mm 26'9" | 6415 mm 21'1" |
| Bucket digging force (SAE) | 422 kN 43000 kgf / 94,800 lb | 422 kN 43000 kgf / 94,800 lb | 343 kN 35000 kgf / 77,160 lb | 502 kN 51200 kgf / 112,900 lb |
| Arm crowd force (SAE) | 392 kN 40000 kgf / 88,180 lb | 327 kN 33300 kgf / 73,410 lb | 281 kN 28700 kgf / 63,270 lb | 395 kN 40300 kgf / 88,860 lb |
| Bucket digging force (ISO) | 479 kN 48800 kgf / 107,590 lb | 479 kN 48800 kgf / 107,590 lb | 389 kN 39700 kgf / 87,520 lb | 570 kN 58100 kgf / 128,110 lb |
| Arm crowd force (ISO) | 412 kN 42000 kgf / 92,590 lb | 337 kN 34400 kgf / 75,840 lb | 286 kN 29200 kgf / 64,375 lb | 412 kN 42000 kgf / 92,590 lb |



BACKHOE BUCKET, ARM, AND BOOM COMBINATION

| BUCKET CAPACITY (HEAPED) | | | | WIDTH | | | | WEIGHT (with side cutters) kg lb | | ARM LENGTH m ft in | | | | | |
|---|-----|--|-----|--|-------|---------------------------------------|-------|--|--------|-----------------------|-------|-----|-------|-----|-------|
| SAE, PCSA m ³ yd ³ | | CECE m ³ yd ³ | | Without Side cutters or shrouds mm in | | With Side cutters or shrouds mm 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" | 3600 | 7,940 | — | ○ | □ | ▲ | | |
| 4.0 | 5.2 | 3.5 | 4.6 | 1710 | 67.3" | 1880 | 74" | 3800 | 8,380 | ○ | □ | ▲ | — | | |
| 5.0 | 6.5 | 4.3 | 5.6 | 2050 | 80.7" | 2220 | 87.4" | 4400 | 9,700 | □ | ▲ | — | — | | |
| 5.2 | 6.8 | 4.5 | 5.9 | 2050 | 80.7" | 2110 | 83.1" | 5100 | 11,240 | □ | ▲ | — | — | | |
| PC1250SP-8 (use with 7.8 m boom) | | | | | | | | | | 3.4 | 11'2" | — | — | — | |
| 6.7 | 8.8 | 5.9 | 7.7 | 2280 | 69.8" | 2340 | 92.1" | 6300 | 13,890 | □ | — | — | — | | |

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

○: General purpose use, density up to 2.1 t/m³ 3,500 lb/yd³

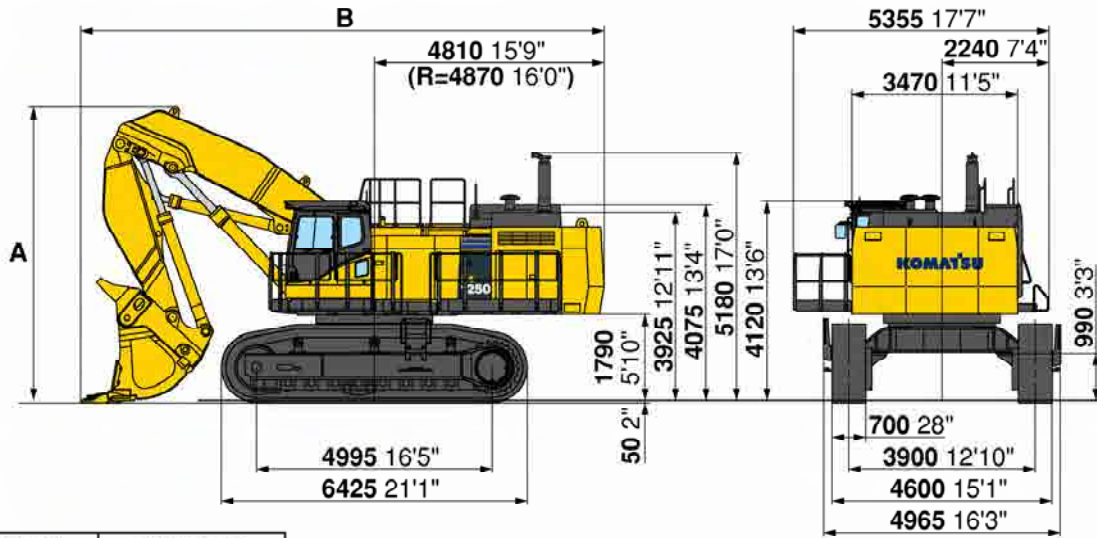
□: General purpose use, density up to 1.8 t/m³ 3,000 lb/yd³

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

—: Not useable



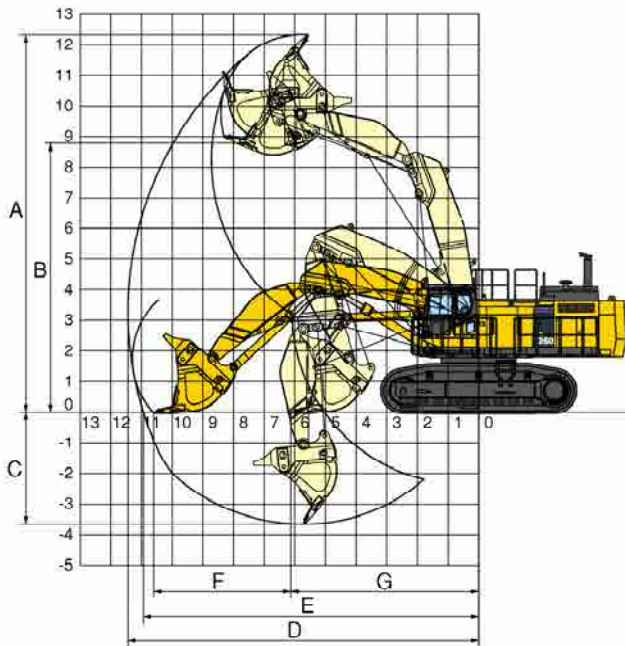
LOADING SHOVEL DIMENSIONS



| Type of bucket | Bottom dump |
|------------------|--|
| Capacity-heaped | 6.5 m ³ 8.5 yd ³ |
| A Overall Height | 6200 mm 20'4" |
| B Overall Length | 10940 mm 35'11" |



LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION



Working Range

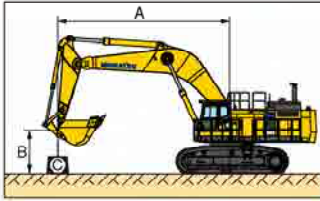
| Type of bucket | Bottom dump |
|--------------------------------------|--|
| Capacity-heaped | 6.5 m ³ 8.5 yd ³ |
| A Max. cutting height | 12330 mm 40'5" |
| B Max. dumping height | 8700 mm 28'7" |
| C Max. digging depth | 3650 mm 12'0" |
| D Max. digging reach | 11400 mm 37'5" |
| E Max. digging 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 m ³ 8.5 yd ³ |
| 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 |



LIFTING CAPACITY



PC1250-8

Equipment:

- Boom: 9.1 m 29'10"
- Arm: 3.4 m 11'2"
- Bucket: 5.0 m³ 6.5 yd³
- Bucket weight: 4400 kg 9700 lb
- Track shoe width: 700 mm 28"

A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

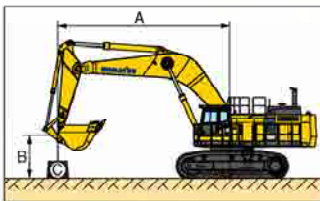
Cs: Rating over side

⊗: Rating at maximum reach

Unit: kg lb

| B \ A | ⊗ Maximum | | 12.2 m 40' | | 10.7 m 35' | | 9.1 m 30' | | 7.6 m 25' | | 6.1 m 20' | | 4.6 m 15' | | |
|----------------|----------------|-------------------|-------------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | |
| Heavy Lift On | 9.1 m 30' | *15200 *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 | | | | |
| | 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 | | | | |
| | 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 | | |
| Heavy Lift Off | 9.1 m 30' | *15200 *33,500 | *15200 *33,500 | | | *15500 *34,200 | *15500 *34,200 | | | | | | | | |
| | 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 | | | | |
| | 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 | | | | |
| | 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.



PC1250-8

Equipment:

- Boom: 9.1 m 29'10"
- Arm: 4.5 m 14'9"
- Bucket: 4.0 m³ 5.2 yd³
- Bucket weight: 3800 kg 8380 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

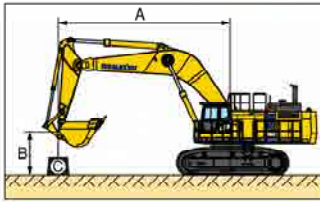
Unit: kg lb

| B \ A | ⊗ Maximum | | 12.2 m 40' | | 10.7 m 35' | | 9.1 m 30' | | 7.6 m 25' | | 6.1 m 20' | | 4.6 m 15' | | |
|----------------|----------------|-------------------|------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|
| | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | |
| Heavy Lift On | 9.1 m 30' | *9300 *20,500 | *9300 *20,500 | | | | | | | | | | | | |
| | 6.1 m 20' | *9650 *21,300 | *9650 *21,300 | *16650 *36,700 | 13700 30,200 | *18150 *40,000 | 18000 39,700 | *20550 *45,400 | *20550 *45,400 | | | | | | |
| | 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 | | | | |
| | 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 |
| Heavy Lift Off | 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 | | | | | | |
| | 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 | | | | |
| | 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.



LIFTING CAPACITY



PC1250-8

Equipment:

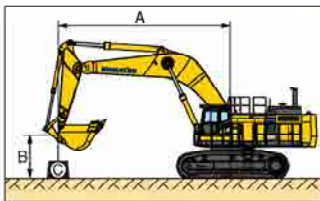
- Boom: 9.1 m 29'10"
- Arm: 5.7 m 18'8"
- Bucket: 3.4 m³ 4.4 yd³
- Bucket weight: 3600 kg 7940 lb
- Track shoe width: 700 mm 28"

- 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

| B \ A | ⊗ Maximum | | 13.7 m 45' | | 12.2 m 40' | | 10.7 m 35' | | 9.1 m 30' | | 7.6 m 25' | | 6.1 m 20' | | |
|----------------|----------------|-------------------|------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
| | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | |
| Heavy Lift On | 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 | | | | | | | | |
| | 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 |
| | 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 |
| Heavy Lift Off | 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 | | | | | | | | |
| | 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 |
| | 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-8

Equipment:

- Boom: 7.8 m 25'7"
- Arm: 3.4 m 11'2"
- Bucket: 6.7 m³ 8.8 yd³
- Bucket weight: 6300 kg 13890 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

| B \ A | ⊗ Maximum | | 12.2 m 40' | | 10.7 m 35' | | 9.1 m 30' | | 7.6 m 25' | | 6.1 m 20' | | 4.6 m 15' | | |
|----------------|----------------|-------------------|-------------------|----|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|
| | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | |
| Heavy Lift On | 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 | | |
| | 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 | | |
| | 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' | | | | | | | | | | | | | | |
| Heavy Lift Off | 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 | | |
| | 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 | | |
| | 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 : 25.3t 27.9U.S.ton
 PC1250SP : 27.7t 30.5U.S.ton

Boom



PC1250 : 11.2t : 9475 x 2894 x 1474
 12.3U.S.ton : 31'1" x 9'6" x 4'10"
 PC1250SP : 11.1t : 8170 x 3095 x 1474
 12.2U.S.ton : 26'10" x 10'2" x 4'10"

Arm



PC1250 : 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 : 6.4t : 4914 x 1683 x 890
 7.1U.S.ton : 16'1" x 5'6" x 2'11"

Bucket



PC1250 : 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 : 6.3t : 2527 x 2420 x 2520
 6.9U.S.ton : 8'3" x 7'11" x 8'3"

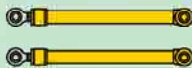
Arm cylinder



Length : 3950 13'0"

1.5t
 1.7U.S.ton

Boom cylinder



Length: 3810 12'6"

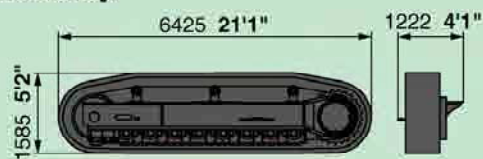
2.4t [1.2t x 2]
 2.64U.S.ton [1.32U.S.ton x 2]

Upper structure



Width : 3490 11'5"
 Weight : 36.4t 40.1U.S.ton

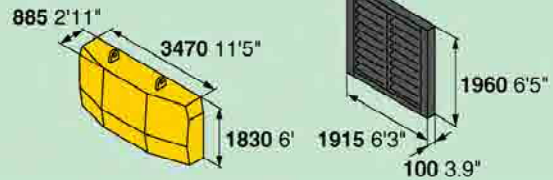
Undercarriage



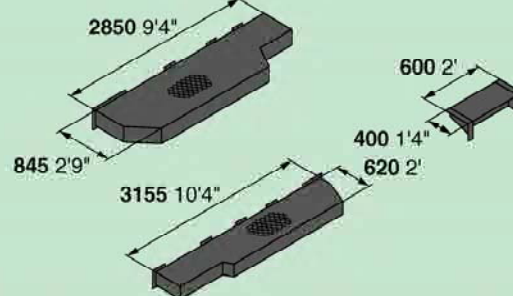
Weight : 30t [15t x 2]
 33.1U.S.ton [16.55U.S.ton x 2]
 Weight : 30.9t [15.45t x 2] (with full length roller guard)
 34.1U.S.ton [17.05U.S.ton x 2]

Others

Weight : 18.4t 20.3U.S.ton



Weight : 18.0t 19.8U.S.ton





STANDARD EQUIPMENT

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 cab bottom, 1 cab RH(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, floor mat, 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), self-diagnostic 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 (2 Main, 1 Swing)
- 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
- Anti-slip 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
- 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)

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