

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)
- Hvdraulic 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
- 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
- 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

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CEN00102-02

- 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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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

PC1250/1250SP-8 BACKHOE

ecot3





KOMATSU®

PC1250-8 LOADING SHOVEL

PC1250-8

WALK-AROUND

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.

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

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.

Easy Maintenance

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

KOMATSU

- 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.

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.

• Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

- Controllers Sensors Connectors
- Heat resistant wiring
 Circuit breaker

See page 6.

 Boom Foot Hoses are arranged under the boom foot, improving hose life and safety.

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. 125) Photo may include

• Economy Mode Four-level Setting

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).

optional equipment.

See page 11.

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

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.

LCD color monitor Hydraulic system controller Pump for fan Electronic control unit for engine Hydraulic control valve Engine Heavy duty HPCR (High Pressure Common Rail) system Electronical control valve

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.

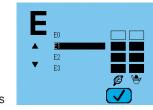
Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low Noise

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):

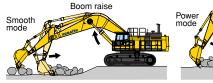
479 kN 48.8 ton

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.

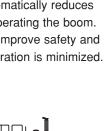




Shockless Boom Control

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.

Extend and



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.

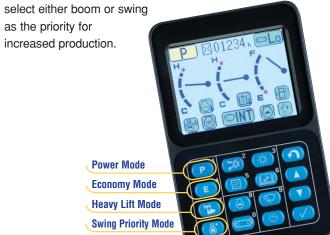
| Working Mode | Application | Advantage |
|------------------------|-----------------|--|
| P | Power Mode | Maximum production/power Fast cycle time |
| E (E0,E1,E2,E3) | Economy Mode | Good cycle time Good fuel economy |

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





RELIABILITY FEATURES

Excellent Reliability and Durability

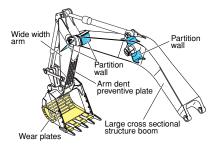
Boom Foot Hoses

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.



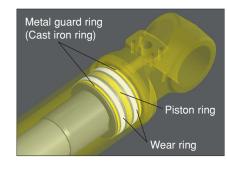
High-pressure In-line Filtration

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.



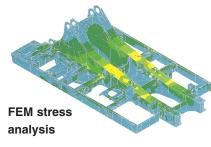
Sturdy guards shield the travel motors and piping against damage from rocks.



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.



DT-type Connectors

DT-type connectors seal tight and have higher reliability.

Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)

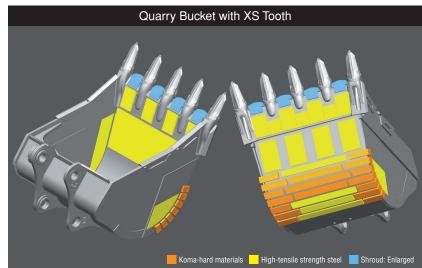
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life.

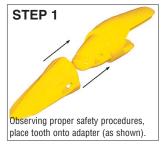
Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life XS teeth, durability of bucket is drastically enhanced.

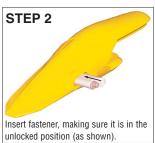
* Koma-hard materials (KVX materials):
Komatsu developed, wear-resistant, reinforced materials.
Brinell hardness: 500 or more (180kgf/mm² class).
Features high wear-resistance and little quality change from the heat generated during rock loading, maintaining long term hardness.

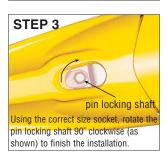
XS Tooth

- 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 PC1250-8'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

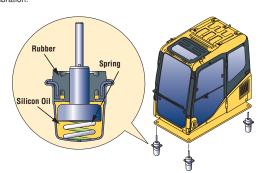
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

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 Comfor

| Cab Damper Mounting | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Conditions: • Traveling over obst one side track • Traveling speed for |
|------------------------------|---|---|
| Multi-Layer Viscous Mount | - Application of the control of the | — Floor Vibration |
| Vertical direction on grap | h 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.



Photo may include optional equipment.

Multi-position Controls

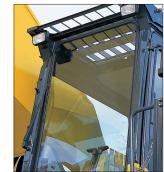
The multi-position, PPC (proportional pressure control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and control levers to move together or independently, allowing the operator to position the controls for maximum productivity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



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



Defroster (optional)



Cab Frame Mounted Wiper



Bottle Holder and Magazine Rack

Safety Features

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



Pump/engine room partition prevents oil from spraying on the engine if a hydraulic hose



Thermal and fan quards 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 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.

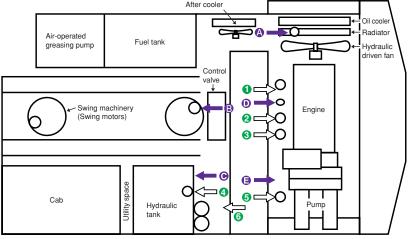


Wide Catwalk, Large Step and

Easier, safer operator cab access and

Handrails

maintenance checks.



- A Coolant
- Swing machinery
- Hydraulic tank
- Engine oil

- Puel filter 3 Engine oil filter

1 Corrosion resister

- PTO case

Easy Cleaning of Radiator

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



Dust Indicator with 5-step Indication

4 Hydraulic drain filter

6 Pilot filter

6 Return filter

Reduced Maintenance

replacement is extended

from 500 to 1000 hours.

Hydraulic oil filter

Costs

clogging in 5 steps to warn of filter 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



High-Quality EMMS Self-diagnostic System

• Abnormality Checking Function

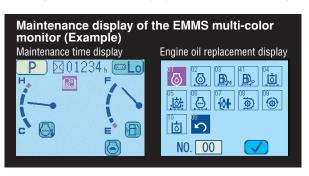
If any abnormality should occur, the monitoring system checks whether hydraulic pressures, solenoid ON/OFF status, engine speed, electrical connections, etc. are within normal condition to keep machine downtime to a minimum.

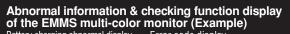
• Maintenance History Memory Function

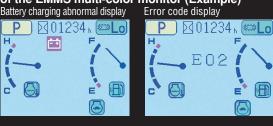
Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored. Operator is warned when service is due.

• Trouble Data Memory Function

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

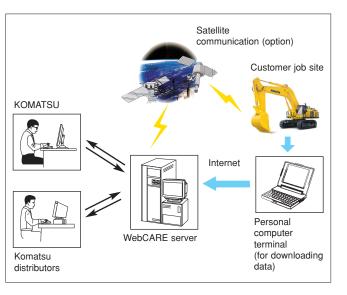






VHMS (Vehicle Health Monitoring System) (optional)

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.







SPECIFICATIONS



| 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 | 3 |
|---|---|
| Horsepower: SAE J1995 | ; |

| 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 | |
| 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

| 320 kgf/cm ² | 4,550 psi |
|-------------------------|---|
| 320 kgf/cm ² | 4,550 psi |
| 350 kgf/cm ² | 4,980 psi |
| 280 kgf/cm ² | 3,980 psi |
| 30 kgf/cm ² | 430 psi |
| | 320 kgf/cm ² 350 kgf/cm ² 280 kgf/cm ² |

Hydraulic cylinders:

| Number of cylinders—bore x stroke | |
|--|----------------|
| Backhoe Boom | |
| Std | |
| Loading shovel Boom2 – 225 mm x 1960 mn | n 8.9" x 77.2" |
| Arm 2 – 185 mm x 1765 mn | 7.3" x 69.5" |
| Bucket | |
| | |

12

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 | Fully hydrostatic al piston motor, in-shoe design Planetary double reduction 686 kN 70000 kgf 154,320 lb |
|------------------|---|
| Low | 3.2 km/h 2.0 mph |



UNDERCARRIAGE

| Center frame | ıme |
|------------------------|------|
| Track frame Box-sect | tion |
| Seal of trackSea | aled |
| Track adjuster | ulic |
| No. of shoes | side |
| No. of carrier rollers | side |
| No. of track rollers | side |



COOLANT AND LUBRICANT CAPACITY (REFILLING)

| Fuel tank | 359.3 U.S. gal |
|-------------------------------|------------------|
| Radiator142 ltr | 37.5 U.S. gal |
| Engine | 22.7 U.S. gal |
| Final drive, each side 21 Itr | 5.5 U.S. gal |
| Swing drive | 5.3 x 2 U.S. gal |
| Hydraulic tank 670 ltr | 177.0 U.S. gal |
| PTO | 3.7 U.S. gal |



OPERATING WEIGHT (APPROXIMATE)

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.

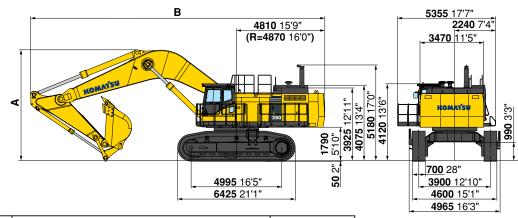
| | PC1250-8 | | PC125 | OSP-8 |
|------------------------------------|--------------------------------|--|-----------------------------|--|
| Shoes | Operating Weight | Ground Pressure | Operating Weight | Ground Pressure |
| Double grouser 700 mm 28" | 106500 kg 234,790 lb | 136 kPa 1.39 kgf/cm² 19.8 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.

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

BACKHOE DIMENSIONS

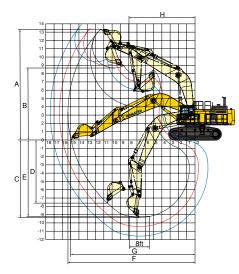


| | | PC1250-8 | | PC1250SP-8 | | | | | | | | |
|------------------|-----------------------|--------------------------|------------------------|------------------------|--|--|--|--|--|--|--|--|
| | | 9.1 m 29'10" boom | | | | | | | | | | |
| | 3.4 m 11'2" arm | 4.5 m 14'9" arm | 5.7 m 18'8" arm | 3.4 m 11'2" arm | | | | | | | | |
| A Overall Height | 6040 mm 19'10" | 6460 mm 21'2" | 6990 mm 22'11" | 6265 mm 20'7" | | | | | | | | |
| 3 Overall Length | 16020 mm 52'7" | 16050 mm 52'8" | 15840 mm 52'0" | 14790 mm 48'6" | | | | | | | | |



WORKING RANGE

Unit: mm ft in



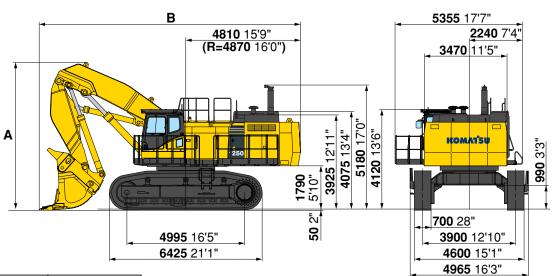
| | | PC1250-8 | | PC1250SP-8 |
|--|---|---|--|---|
| | | 9.1 m 29'10" boom | | 7.8 m 25'7" boom |
| | 3.4 m 11'2" arm | 4.5 m 14'9" arm | 5.7 m 18'8" arm | 3.4 m 11'2" arm |
| A Max. digging height | 13400 mm 44'0" | 13490 mm 44'3" | 13910 mm 45'8" | 13000 mm 42'8" |
| B Max. dumping height | 8680 mm 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

| BUCKE | T CAPA | CITY (HEAPE | 0) | | WII | DTH | | | | | | | | |
|------------------------------|----------|-------------|-----|----------------------------|-------|--------------------------|----------|------|---------------------------|-----------------------|------------------|------------------|--|--|
| SAE, PCSA CECE m³ yd³ m³ yd³ | | | | Withou cutters or mm | | With cutters of mm | rshrouds | | iGHT le cutters) Ib | 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 | 4 | 3.0 | 3.9 | 1500 | 59" | 1670 | 65.7" | 3600 | 7,940 | _ | 0 | | | |
| 4.0 5.2 | 2 | 3.5 | 4.6 | 1710 | 67.3" | 1880 | 74" | 3800 | 8,380 | 0 | | A | | |
| 5.0 6.5 | 5 | 4.3 | 5.6 | 2050 | 80.7" | 2220 | 87.4" | 4400 | 9,700 | | A | _ | | |
| 5.2 6.8 | 8 | 4.5 | 5.9 | 2050 | 80.7" | 2110 | 83.1" | 5100 | 11,240 | | A | _ | | |
| PC1250SP-8 (ı | use with | 7.8 m boom |) | | | | | | | 3.4 11'2" | _ | _ | | |
| 6.7 8.8 | 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.

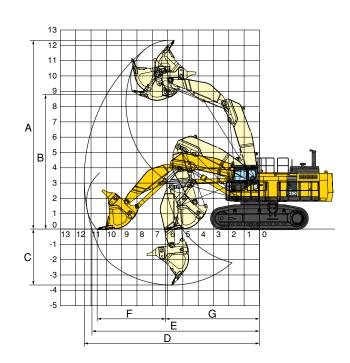
- : General purpose use, density up to 2.1 t/m³ 3,500 lb/yd³ : General purpose use, density up to 1.8 t/m³ 3,000 lb/yd³
- ▲: General purpose use, density up to 1.5 t/m³ 2,500 lb/yd³
- -: Not useable



| | Type of bucket | Bottom o | lump |
|---|-----------------|----------|---------------------|
| | Capacity-heaped | 6.5 m³ | 8.5 yd ³ |
| Α | Overall Height | 6200 mm | 20'4" |
| В | Overall Length | 10940 mm | 35'11" |



LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION



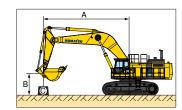
Working Range

| | Type of bucket | Bottom dump |
|---|------------------------------------|---|
| | Capacity-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" |
| Е | 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 |





PC1250-8

Equipment:

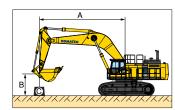
- Boom: **9.1 m** 29'10"
- Arm: 3.4 m 11'2"
- Bucket: **5.0 m**³ 6.5 yd³
- Bucket weight: 4400 kg 9700 lb
 Track shoe width: 700 mm 28"
- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side

Rating at maximum reach

|--|

| | _ 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 n | n 15' |
|-----------------------|-----------------------|--------------------------|--------------------------|------------------------|---------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|
| | В | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs |
| | 9.1 m 30' | *15200 *33,500 | *15200 *33,500 | | | *18000 *39,700 | *18000 *39,700 | | | | | | | | |
| Ļ | 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 | | |
| ı. | 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 | | | | |
| Heavy Lift Off | 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.



PC1250-8

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** 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

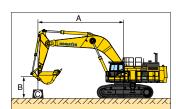
Rating at maximum reach

Unit: kg lb

| | | Α | ⊖ 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 r | n 15' |
|----------------|--------------------|-------------|-------------------------|-------------------------|--------------------------|---------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|-----------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| | В | \setminus | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs |
| | 9.1 i | | *9300 *20,500 | *9300 *20,500 | | | | | | | | | | | | |
| _ | 6.1 i | | *9650 *21,300 | *9650 *21,300 | *16650 *36700 | 13700 30,200 | *18150 *40,000 | 18000 39,700 | *20550 *45,400 | *20550 *45,400 | | | | | | |
| Lift On | 3.0 i | | *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 i | m | *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 -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 -20 | - 1 | *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 i | | *9300 *20,500 | *9300 *20,500 | | | | | | | | | | | | |
| | 6.1 i | | *9650 *21,300 | *9650 *21,300 | *14250 *31,400 | 13700 30,200 | *15600 *34,400 | *15600 *34,400 | *17850 *39,300 | *17850 *39,300 | | | | | | |
| Heavy Lift Off | 3.0 i | | *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 I | 0.0 i | m | *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 -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 -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.

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PC1250-8

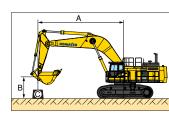
Equipment:

- Boom: **9.1 m** 29'10" • Arm: **5.7 m** 18'8"
- Bucket: **3.4 m**³ 4.4 vd³
- 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: ka lb

| | | | | 1 | | | | | | | | | | | Onit. kg io |
|-----------------------|-----------------------|--------------------------|-------------------------|-----------------------|-----------------------|--------------------------|------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| | _ A | ⊕ Ma | aximum | 13.7 | m 45' | 12.2 | m 40' | 10.7 | m 35' | 9.1 r | n 30' | 7.6 r | 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 | | | | | | | | |
| Heavy 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 | | | | | | | | |
| Heavy 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-8

Equipment:

- Boom: 7.8 m 25'7"
- Arm: **3.4 m** 11'2"
- Bucket: **6.7 m**³ 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

| IIn | i+· | ka | lh |
|-----|-----|----|----|
| | | | |

| | | | | | | | | | | | | | | | • |
|-----------------------|-----------------------|--------------------------|------------------------|------|--------------|------------------------|------------------------|--------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|------------------------|
| | A | ↔ Ma | ıximum | 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 r | 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 | | | | | | |
| Heavy Lift Off | 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 | | |
| | | 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:

Work equipment assembly (Backhoe)

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

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

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"

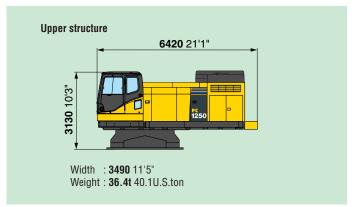
Arm cylinder

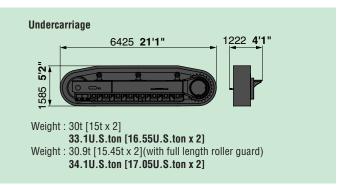
2.4t [1.2t x 2]

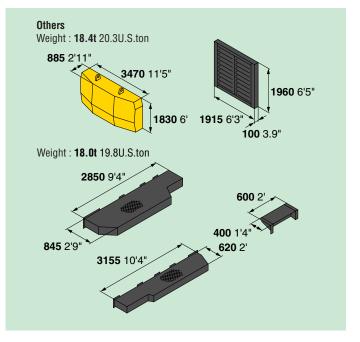
2.64U.S.ton [1.32U.S.ton x 2]

1.5t









16 17