

PC1250-11R

Hydraulic excavator



Photos may include optional equipment.

Horsepower

Gross 578 kW (775 hp) @ 1,800 rpm
Article n°35 of regulation (EU) 2016/1628; NRE-v-7
Net power 578 kW (775 hp) @ 1,800 rpm

Operating weight

Backhoe: 116,400 - 118,800 kg
Loading shovel: 119,700 kg - 119,900 kg

Bucket capacity

Backhoe: 3.40 - 7.00 m³
Loading shovel: 6.50 - 7.20 m³

Walk-around

With excellent economy and high productivity, PC1250 moves to a new stage.



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Workability & reliability features

- Productivity increased up to 8% at P+ mode. **New**
(Comparison of PC1250-11R P+ mode and PC1250-8 P mode).
- Enhanced efficiency due to powerful and smooth work.
- Highly durable and reliable Komatsu designed components.
- Highly durable work equipment with powerful digging force.
- Pre-cleaner (Standard). **New**

Ecology & economy features

- Fuel consumption reduced by 6%.
(Comparison of PC1250-11R P mode and PC1250-8 P mode). **Upgrade**
- Auto idle stop function. **New**

Comfortable features

- New wide, comfortable and low noise CAB. **Upgrade**

Safety features

- Hydraulically operated stairway (Optional). **New**
- Lock lever auto lock function. **New**
- Engine emergency shut down switch (Optional). **New**
- Operator's cab OPG level 2 (ISO 10262).
- All-around machine handrail with foot guard (ISO 2867). **Upgrade**
- LED light (Standard). **New**

Information & communication technology (ICT)

- Machine monitor with evolutionary interface. **New**
- KomVision. **New**
- High resolution, easy-to-use color monitor provides powerful support for energy saving operation.
- Operator identity function provides improved machine management and production records. **New**

Komtrax Plus

- New Komtrax Plus allows immediate diagnostics of machine. **Upgrade**

Maintenance features

- New maintenance features provided throughout the machine help reduce inspection time, maintenance work and also machine downtime.
- Various kinds of maintenance information are displayed clearly on the monitor screen.

Workability & reliability features

Power plus mode New

The PC1250-11R excavator is newly equipped with Power plus (P+) mode in addition to power (P) and economy (E) mode. P+ mode greatly increases the productivity.

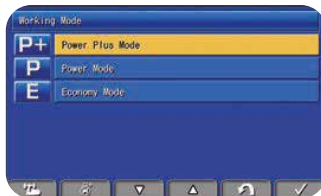
P+ mode productivity

increased by **8%**

VS. PC1250-8 P mode (90° swing and loading onto truck).

Three work modes for large-working volume & low fuel consumption New

In addition to the newly added [P + mode], the new [P mode] has reduced fuel consumption with the same production volume as the conventional P mode, and the new [E mode] which has same speed at light load as the conventional P mode with further reduced fuel consumption. The three work modes can be selected with one touch using the monitor switch.



P mode fuel efficiency

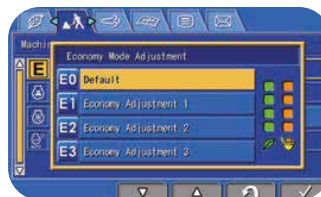
increased by **6%**

vs. PC1250-8 P mode
2% vs. PC1250-8R P mode

VS. PC1250-8 P mode (90° swing and loading onto truck).

Multiple E mode setting for reduced fuel consumption

For work that requires reduced fuel consumption, three stages of E mode can be selected to flexibly adapt to any operating condition.



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 comfortable control lever 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.



Heavy lift mode

Swing priority setting

High power SAA6D170E-7 engine New

Equipped with the enhanced new SAA6D170E-7 engine, heavy duty work can be executed without stress.



Horsepower (Net)

578 kW (775 hp)

Large digging force

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

Maximum arm crowd force (ISO 6015)

PC1250-11R
PC1250-11R SP spec. **412 kN (42.0 t)**

Maximum bucket digging force (ISO 6015)

PC1250-11R **412 kN (42.0 t)**
PC1250-11R SP spec. **570 kN (58.1 t)**

Shockless boom control

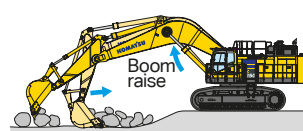
The PC1250-11R boom circuit features a shockless valve to automatically reduce the amount of shaking when operating the boom. Operator fatigue is reduced (which can improve safety and productivity), and spillage caused by shaking is minimized.



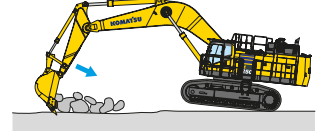
Two-mode setting for boom

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.

Smooth mode



Power mode



Pre-cleaner New

Dust is removed at the upstream of the air cleaner intake to prevent premature deterioration of the engine and reduce the cleaning frequency of the air cleaner element.



Large capacity fuel pre-filter (with water separator) Upgrade

Removes water and dust in the fuel and prevents fuel system troubles. The filtering capacity of water and dust has been increased compared to the conventional filter.



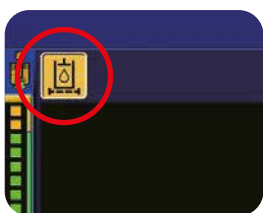
Coolant filter New

Filters out contaminants in the coolant and prevents overheating and water pump troubles due to clogging of the engine cooling circuit.



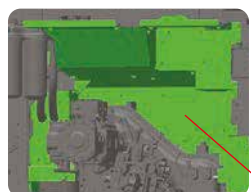
Return oil filter clog detection function New

Recommends filter exchange and prevents catastrophic damage of hydraulic system by informing operator the clogging of hydraulic return filter. The signal can be monitored via the Komtrax Plus.



Bulkhead Wall (fire wall) Upgrade

Prevents oil from splashing into the engine room in the event of hydraulic oil leak.

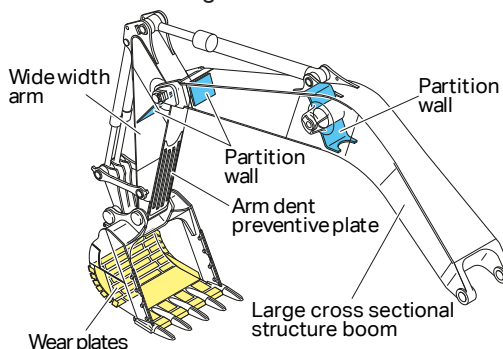


Bulkhead wall



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.



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 pipings against damage from rocks.



Rock protection

Track roller guard (full length)

Prevents entry of rocks in between the track roller and track shoe link that may cause premature wear or damage.



O-ring face seal
High-pressure in-line filtration
Heat-resistant wiring
Strengthened revolving frame underguard
Sealed connectors
55°C specification

Ecology & economy features

Komatsu new engine technologies

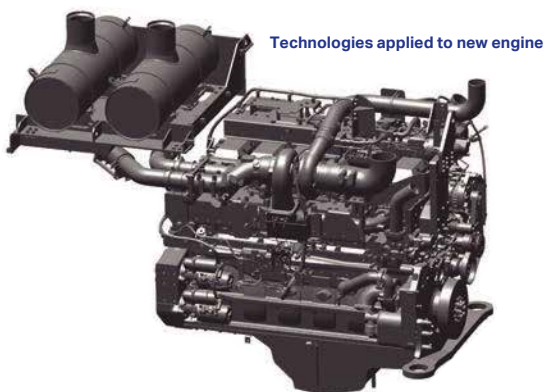
Komatsu's new emission regulation-compliant engine

Komatsu provides a powerful engine with latest electronic control technologies and fuel saving features.



Electronic control system

The electronic control system performs high-speed processing of all signals from sensors installed in the machine and engine to ensure total control of equipment in all conditions of use. Real time engine operating condition parameters are displayed via high speed centralized network on the monitor inside the cab, providing necessary information to the operator. Furthermore, managing the information via Komtrax Plus helps customers engage in appropriate maintenance.



Technologies applied to new engine

Low fuel consumption Upgrade

Fuel consumption is reduced further due to machine total fine tuning and new SAA6D170E-7 Engine.

Power mode fuel consumption

increased by **6%** vs. PC1250-8 P mode
2% vs. PC1250-8R P mode

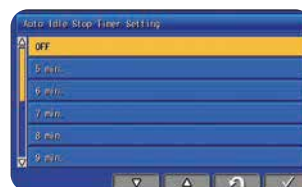
Additional economy and ecology features

Auto decel and auto idling function New

Equipped with an auto decel which can reduce fuel consumption and noise. Longer idle time activates the auto idling system reducing further the engine idling speed for more fuel savings.

Auto idle stop function New

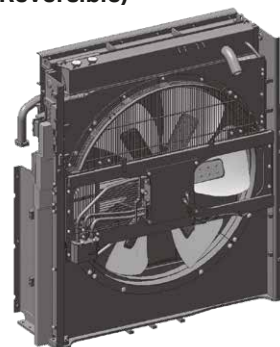
When the engine has been idling for certain time, the engine stops automatically to reduce unnecessary fuel consumption and exhaust emissions. The duration before the engine shutdown can be easily programmed.



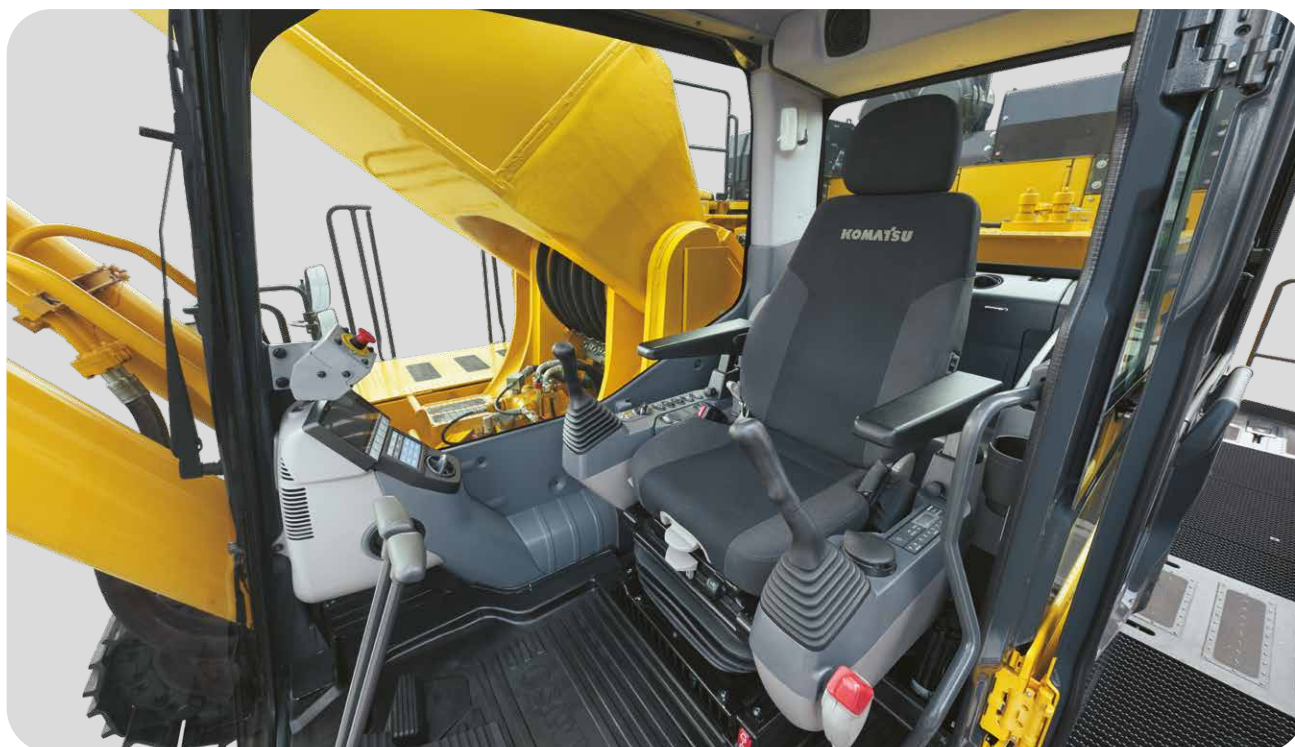
Auto idle stop

Hydraulic variable speed fan (Reversible)

By monitoring the coolant, hydraulic oil and ambient temperature, cooling fan rotation speed is automatically adjusted to use the least required energy for cooling. This reduces the load on the engine and further improve fuel savings.



Comfortable features



Comfortable working space

Wide spacious cab New

The spacious cab with wide field of view offers comfortable working experience even at extended hours.

The ergonomic reclining high-back air suspension seat with a heater function has deep side support for excellent holdability and has easy to adjust height and front-rear inclination. Combined with the seat mounted console, the seat has a wide range of adjustment to obtain the optimum working position.

Low cab noise

The newly-designed cab is highly rigid and has excellent sound insulation ability.

Arm rest with simple height adjustment function New

The addition of a knob and a plunger to the armrest permits the height of the armrest to be easily adjusted without the use of tools.



Automatic air conditioner (A/C) Pressurized cab

Auxiliary input jack New

Connecting wide range of audio source to the auxiliary jack allows the operator to hear the sound from the speaker installed in the cab.



Standard equipment

Sliding window glass (left side)



Handling radio, ashtray



Cigarette lighter



Sun shield



Open



Close

Magazine box & cup holder



Remote intermittent wiper with windshield washer

Defroster
(Conform to the ISO 10263-5)

Safety features



Hydraulically operated stairway (Optional) New

The new hydraulically operated 45° stairway enables the operator to access the machine safely. If the stairway is not retracted, the equipment is automatically stopped (Lock lever auto lock function).

Lock lever auto lock function New

If the work equipment lever is not in the neutral position when the hydraulic lock lever is released, the equipment is automatically stopped. The lock lever auto lock state is shown on the monitor screen.



Operator's cab

The machine is equipped with an operator's cab that conforms to OPG top guard level 2 (ISO 10262) for falling objects. The cab has high shock-absorption performance, featuring excellent durability and impact strength.



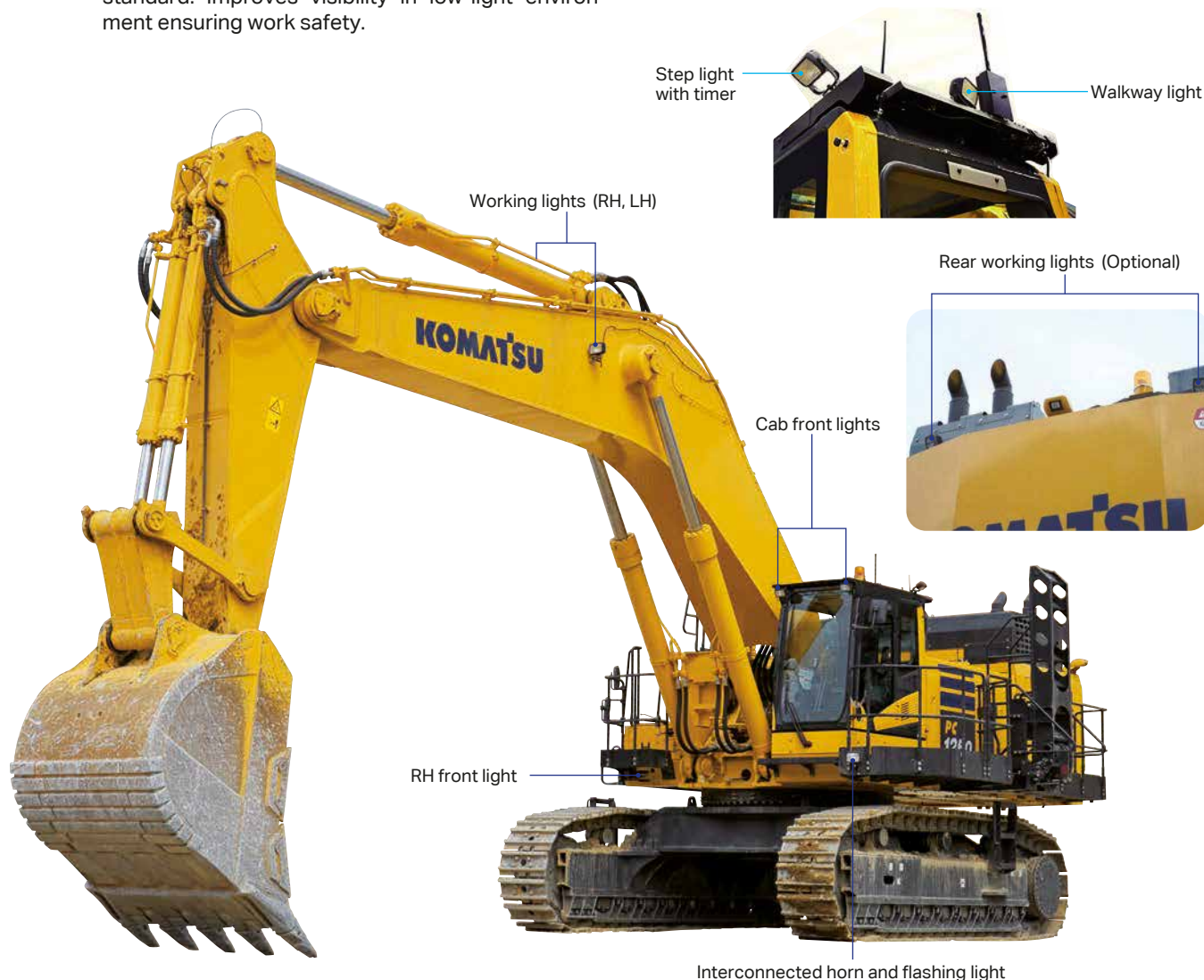
Engine emergency shut down switch (Optional) New

Engine emergency shut down switches are provided at three points (in the operator's cab, on the right deck and left catwalk). They can be accessed easily in case of emergency.



LED light as standard equipment New

The bright and long life LED light is equipped as standard. Improves visibility in low-light environment ensuring work safety.



Fall Prevention Handrail (ISO 2867) Upgrade

Easy and safe access all over the machine for inspection and maintenance.



Safety equipment

Engine shutdown secondary switch at base of seat to shutdown the engine.



Retractable seat belt.
Beacon (Optional).
Rear working light (LED) (Optional).
Emergency escape hammer.
Tempered & tinted glass.
Large side mirrors.
Slip-resistant plates.

Seat belt caution indicator



Lock lever.
Travel alarm.
Step light with timer.
Horn interconnected with warning light.
Bolt-on top guard, OPG level 2 (ISO 10262).
Thermal and fan guards.

ICT

Large high resolution liquid crystal display (LCD) monitor

Machine monitor with evolutionary interface

New

The interface has been redesigned to enable the necessary information to be read and understood more easily, while retaining the maneuverability of previous model. A rear view camera image has been added to the default main screen. The interface has a function that enables the main screen to be switched, thus enabling the optimum screen for the particular work situation to be displayed.

Indicators

- ① Auto-decelerator.
- ② Working mode.
- ③ Travel speed.
- ④ ECO gauge.
- ⑤ Camera display.
- ⑥ Engine coolant temperature gauge.
- ⑦ Hydraulic oil temperature gauge.
- ⑧ Fuel gauge.
- ⑨ Service meter.
- ⑩ Clock.
- ⑪ Fuel consumption gauge.
- ⑫ Guidance icon.
- ⑬ Function switches.
- ⑭ Camera direction display.

Basic operation switches

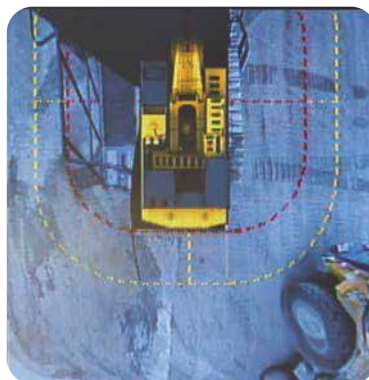
- ① Auto-decelerator.
- ② Working mode selector.
- ③ Travel speed selector.
- ④ Buzzer cancel.
- ⑤ Wiper.
- ⑥ Window washer.



KomVision

New

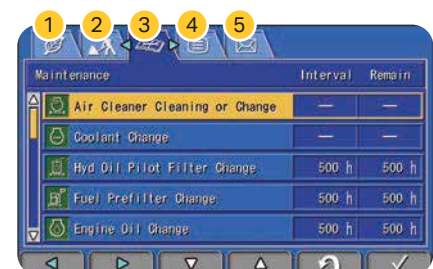
The surroundings of the machine can be displayed on the monitor by using 4 cameras installed at the sides and rear of the machine. Press the switch F4 to toggle between the right, left and rear side view of the machine.



Visual user menu

New

Pressing the F6 key on the main screen displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated intuitively.



- ① Energy saving guidance.
- ② Machine setting.
- ③ Maintenance.
- ④ Monitor setting.
- ⑤ Mail check.



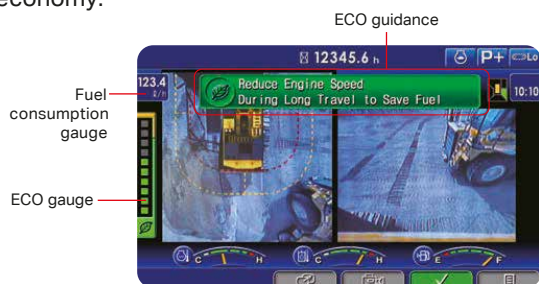
Support efficiency improvement

ECO guidance New

While machine is operating, ECO guidance operation tips pops up on the monitor guiding the operator to achieve better fuel efficiency.

ECO gauge & fuel consumption gauge New

The monitor screen includes an ECO gauge and also a fuel consumption gauge which is continuously displayed. In addition, the operator can set any desired target value of fuel consumption (within the range of the green display), enabling the machine to be operated with better fuel economy.

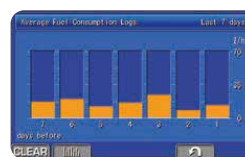


Operation record, fuel consumption history, and ECO guidance record New

The ECO guidance menu enables the operator to check the operation record, fuel consumption history and ECO guidance record from the ECO guidance menu, using a single touch, thus enabling the total fuel consumption to be reduced.



Operation records



Average fuel consumption logs



ECO guidance records

KOMTRAX Plus

Monitors large machines' health and supports customers' machine management. Upgrade

Support for machine management

Komtrax Plus is a management system for large machines. With this system, you can grasp "health condition" and "operating condition" of the machines from distant places via satellite communication, and accordingly you can prevent machine troubles and streamline the machine management.

Machine management with Komtrax Plus

- **Maintenance management:** Manage maintenance schedule and failure prevention maintenance.
- **Machine management:** Check lists of jobsites, service meter readings, etc.
- **Operation management:** Check operating condition of each machine.
- **Check machine locations:** Check detailed machine sites on map.
- **Support in energy saving operation:** Check fuel consumption and CO₂ emissions, and make energy saving operation support report.
- **Make forms:** Download displayed data and use them as forms.

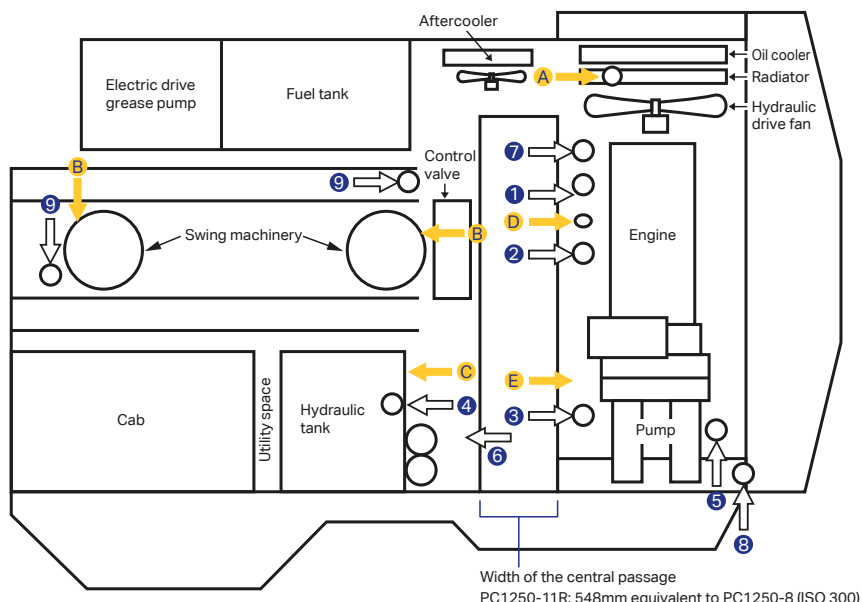
Energy saving operation support report

It is possible to provide energy saving operation support report and other information useful to customers on the basis of work information such as fuel consumption, idling time, etc.

Maintenance features

A wealth of devices is provided throughout the machine for reducing inspection and maintenance work and also machine downtime

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



- | | | |
|-----------------------------|---------------------------|--------------------------------|
| A Coolant. | 1 Fuel filters. | 6 Hydraulic return filters. |
| B Swing machinery oil. | 2 Fuel Pre filters. | 7 KCCV filter. |
| C Hydraulic oil. | 3 Engine oil filters. | 8 PTO strainer. |
| D Engine oil. | 4 Hydraulic drain filter. | 9 Swing motor cooling filters. |
| E Power Take Off (PTO) oil. | 5 Pilot filter. | |

Easy checking and maintenance

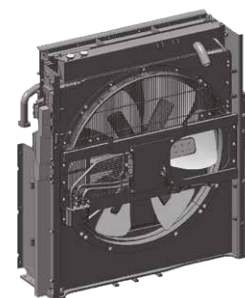
Easy cleaning of oil cooler, a/c condenser and fuel cooler New

Hinged A/C condenser and fuel cooler provide easy access to each core.



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.



Battery disconnect switch New

A battery disconnect switch is equipped as standard feature to allow technicians to cut power source and prevent engine cranking before servicing the machine.



Walkway light (LED) New

Lighting to walkway provides easy and safety maintenance even at nighttime work.



Fan belt auto tentioner New

The tension of the fan belt is adjusted automatically.



Washable cab floor mat

Upgrade

Equipped with a floor mat with a brim that can be washed by water. Drain holes are placed in the floor to improve water drainage.



Wide catwalk, large step and handrails

Upgrade

Equipped with wide catwalks and handrails so that operator and mechanic can safely move up and down the cab and perform inspections and maintenance.



Auto Greasing System (Optional)

Upgrade

Automatically lubricates each greasing point. Adopting a refill system with a filter and increasing the capacity of the grease tank, the grease refill interval has been further extended.

- Greasing up around the bucket by grease gun.
- When refilling the grease tank, grease supply pump for refill is required.

Electric priming pump.

Dust indicator with 5-step indication.

Convenient utility space.

Fuel quick charge system (Optional)

New

Refueling port on the right front deck can be accessed from the ground level.



Long-life oil, filter

Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

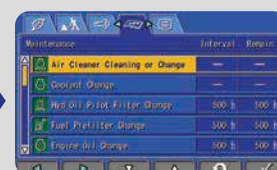
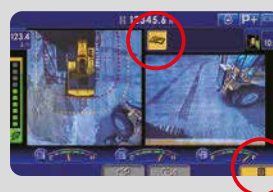
Engine oil & engine oil filter	every	500	hours
Fuel main filter	every	1,000	hours
Hydraulic oil filter	every	1,000	hours
Hydraulic oil	every	5,000	hours

Maintenance information

"Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours*, the maintenance time monitor appears. Pressing the F6 key switches the monitor to the maintenance screen.

* The setting can be changed within the range between 10 and 200 hours.

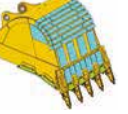
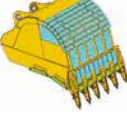
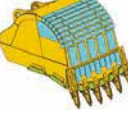
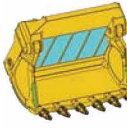
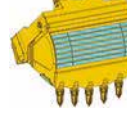
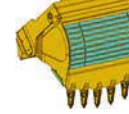


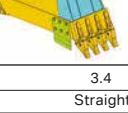
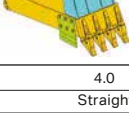
Maintenance screen

Komatsu brand bucket

The recommended material density for each bucket is listed below. Using the bucket above the recommended material density may result to decreased machine durability.

◎ : General work (Material density up to 1.8 t/m³) ○: Light duty work (Material density up to 1.5 t/m³) ×: Not applicable –: Not available

	Heavy duty bucket	SP bucket	Large size SP bucket	Loading shovel bucket	
Bucket shape Wear plate location  Side shroud, side cutter  Wear plate	 	 	 	 	 
Bucket capacity (Heaped)	m ³ 5.2	6.7	7.0	6.5	7.2
Lip shape	Straight	Straight	Spade	Spade	Spade
Bucket width with shroud / bucket lip width	mm 2,110/2,310	2,340/2,530	2,340/2,530	2,730/2,800	2,730/2,800
Tooth type	XS (Horizontal pin: Hammerless)	XS (Horizontal pin: Hammerless)	XS (Horizontal pin: Hammerless)	XS (Horizontal pin: Hammerless)	XS (Horizontal pin: Hammerless)
Number of teeth	5	6	6	6	6
Side cutter	No	No	No	No	No
Side shroud	Yes	Yes	Yes	Yes	Yes
Bakclash adjustment	Yes	Yes	Yes	No	No
Backhoe	9.1 m boom 3.4 m arm	×	×	×	×
	7.8 m SP boom 3.4 m SP arm	×	◎	×	×
Loading shovel (L/S)	5.3 m L/S boom 3.8 m L/S arm	×	×	◎	○
Excavating condition and material	Heavy duty	Heavy duty	Heavy duty	General-purpose	Light duty

	Narrow bucket	Narrow bucket	General purpose bucket
Bucket shape Wear plate location  Side shroud, side cutter  Wear plate	 	 	 
Bucket capacity (Heaped)	m ³ 3.4	4.0	5.0
Lip shape	Straight	Straight	Straight
Bucket width (with side cutter)	mm 1,670	1,880	2,220
Tooth type	Horizontal pin	Horizontal pin	Horizontal pin
Number of teeth	4	4	5
Side cutter	Yes (Optional)	Yes (Optional)	Yes (Optional)
Side shroud	No	No	No
Bakclash adjustment	Yes	Yes	Yes
Backhoe	9.1 m boom 5.7 m Long arm	○	×
	9.1 m boom 4.5 m Semi-long arm	○	○
	9.1 m boom 3.4 m arm	×	◎
Excavating condition and material	General-purpose	General-purpose	General-purpose

XS Tooth

- Unique bucket tooth shape for superior digging performance.
- Long-term high sharpness.
- Great penetration performance.
- Hammerless, safe, and easy tooth replacement.

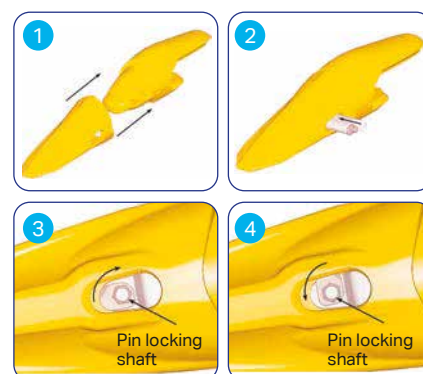
(Tooth replacement time: Half of the conventional machine).

Installation

1: Observing proper safety procedures, place tooth onto adapter (As shown). 2: Insert fastener, making sure it is in the unlocked position (As shown). 3: Using the correct size socket, rotate the pin locking shaft 90° clockwise (As shown) to finish the installation.

Removal

4: To remove fastener, use the correct size socket to rotate the pin locking shaft 90° counter-clockwise (As shown). Remove fastener and tooth. Repeat steps 1-3 for a new installation.



Komatsu total support



Komatsu Total Support

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

Fleet recommendation

Komatsu Distributor can study the customer's job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.



Product support

Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

Parts availability

Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support

Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.

- Preventive Maintenance (PM) clinic.
- Oil & Wear analysis program.
- Undercarriage inspection service, etc.



Repair & maintenance service

Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components

Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu's customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).



Specifications

Engine

Model	Komatsu SAA6D170E-7
Type	4-cycle, water-cooled, direct injection
Aspiration	Turbocharged, aftercooler
Number of cylinders	6
Bore	170 mm
Stroke	170 mm
Piston displacement	23.15 L
Governor	All-speed, electronic
Horsepower:	
SAE J1995	Gross 578 kW 775 hp
Article n°35 of Regulation (EU) 2016/1628; NRE-v-7	Net 578 kW 775 hp
Rated rpm	1,800 rpm
Fan drive type	Hydraulic

Hydraulic system

Type	Open-center load-sensing system
Number of selectable working modes	3
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 L/min
For swing	1 x 600 L/min
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/cm ²
Loading shovel	31.4 MPa 320 kgf/cm ²
Travel circuit	34.3 MPa 350 kgf/cm ²
Swing circuit	27.5 MPa 280 kgf/cm ²
Pilot circuit	3.1 MPa 32 kgf/cm ²

Hydraulic cylinders:

(Number of cylinders-bore x stroke)

Backhoe	
Boom	2 – 225 mm x 2,390 mm
Arm	1 – 250 mm x 2,435 mm
Bucket	
Std	2 – 160 mm x 1,825 mm
SP	2 – 160 mm x 1,950 mm

Drives and brakes

Steering control	Two levers with pedals
Drive method	Fully hydrostatic
Travel motor	Axial piston motor, in-shoe design
Reduction system	Planetary triple reduction
Maximum drawbar pull	686 kN 70,000 kgf
Gradeability	70%
Maximum travel speed:	
High	3.3 km/h
Low	2.3 km/h
Service brake	Hydraulic lock
Parking brake	Oil disc brake

Swing system

Drive method	2 x hydraulic motors
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Swing lock	Oil disc brake
Swing speed	5.8 rpm

Undercarriage

Center frame	H-leg frame
Track frame	Box-section
Seal of track	Sealed
Track adjuster	Hydraulic
No. of shoes (Each side)	48
No. of carrier rollers (Each side)	3
No. of track rollers (Each side)	8

Coolant and lubricant capacity (Refill)

Fuel tank	1,360 L
Radiator	134 L
Engine	86 L
Final drive (Each side)	21 L
Swing drive	20 x 2 L
Hydraulic tank	670 L
Power Take Off (PTO)	13.5 L

Operating weight (Approximate)

Backhoe

PC1250-11R: Operating weight, including 9,100 mm boom, 3,400 mm arm, heaped 5.0 m³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

PC1250-11R SP: Operating weight, including 7,800 mm boom, 3,400 mm arm, heaped 6.7 m³ backhoe bucket, full length roller guard, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	PC1250-11R		PC1250-11R SP	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Double grouser 700 mm	116,400 kg	148 kPa 1.51 kgf/cm ²	118,600 kg	151 kPa 1.54 kgf/cm ²

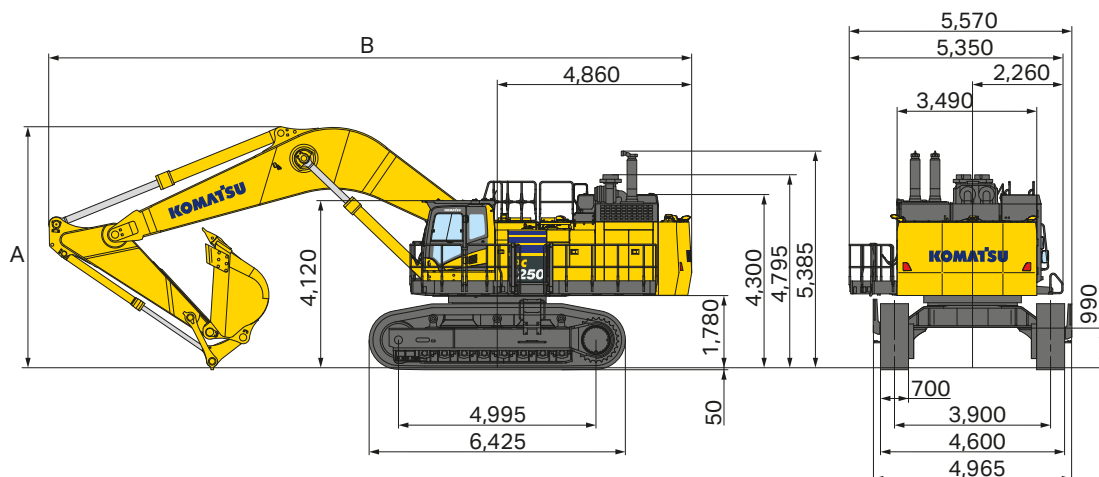
Loading shovel

Operating weight, including 5,300 mm boom, 3,800 mm arm, heaped 6.50 m³ bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	PC1250-11R	
	Operating weight	Ground pressure
Double grouser 700 mm	119,700 kg	152.2 kPa 1.56 kgf/cm ²

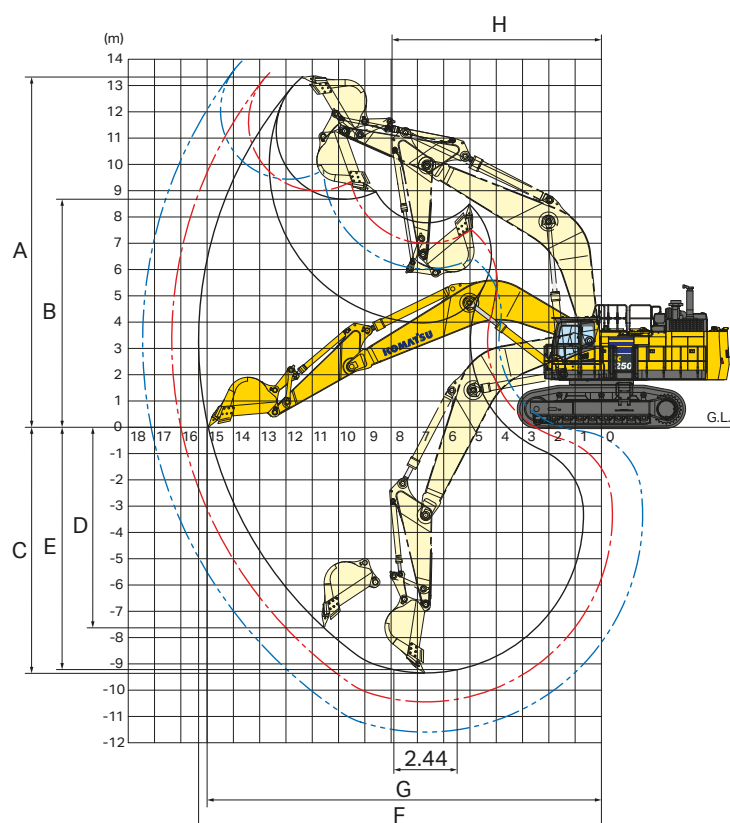
Backhoe dimensions

Unit: mm



Model		PC1250-11R		
Boom Length		9,100 mm		
Arm Length		3,400 mm	4,500 mm	5,700 mm
A	Overall Height	6,040 mm	6,460 mm	6,990 mm
B	Overall Length	16,070 mm	16,100 mm	15,890 mm

Backhoe working range

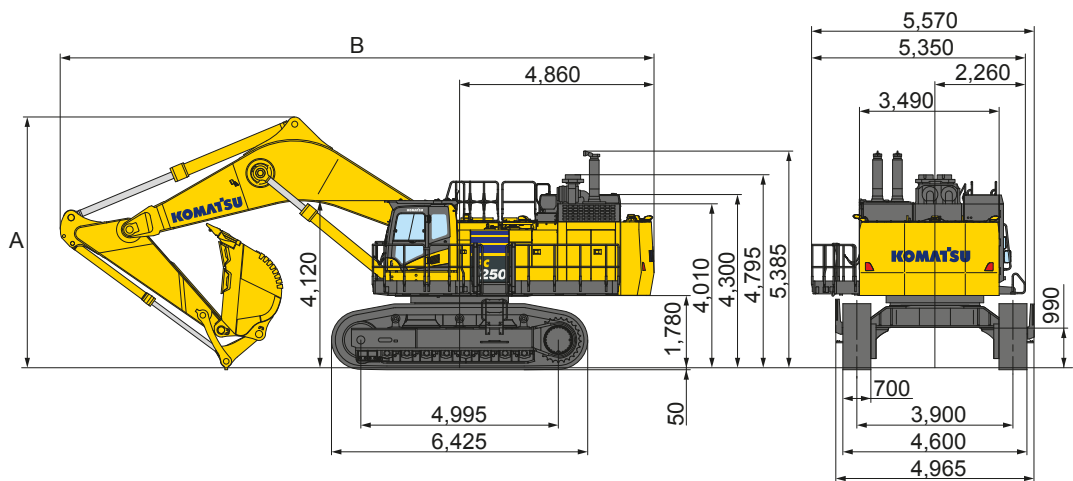


Model		PC1250-11R		
Boom Length		9,100 mm		
Arm Length		3,400 mm	4,500 mm	5,700 mm
A	Max. digging height	13,400 mm	13,490 mm	13,910 mm
B	Max. dumping height	8,680 mm	9,000 mm	9,440 mm
C	Max. digging depth	9,350 mm	10,440 mm	11,590 mm
D	Max. vertical wall digging depth	7,610 mm	8,490 mm	9,480 mm
E	Max. digging depth of cut for 8' level	9,220 mm	10,340 mm	11,500 mm
F	Max. digging reach	15,350 mm	16,340 mm	17,450 mm
G	Max. digging reach at ground level	15,000 mm	16,000 mm	17,130 mm
H	Min. swing radius	7,965 mm	7,990 mm	8,150 mm
SAE J1179 Rating	Bucket digging force	422 kN 43,000 kg	422 kN 43,000 kg	343 kN 35,000 kg
	Arm crowd force	392 kN 40,000 kg	327 kN 33,300 kg	281 kN 28,700 kg
ISO 6015 Rating	Bucket digging force	479 kN 48,800 kg	479 kN 48,800 kg	389 kN 39,700 kg
	Arm crowd force	412 kN 42,000 kg	337 kN 34,400 kg	286 kN 29,200 kg

PC1250-11R

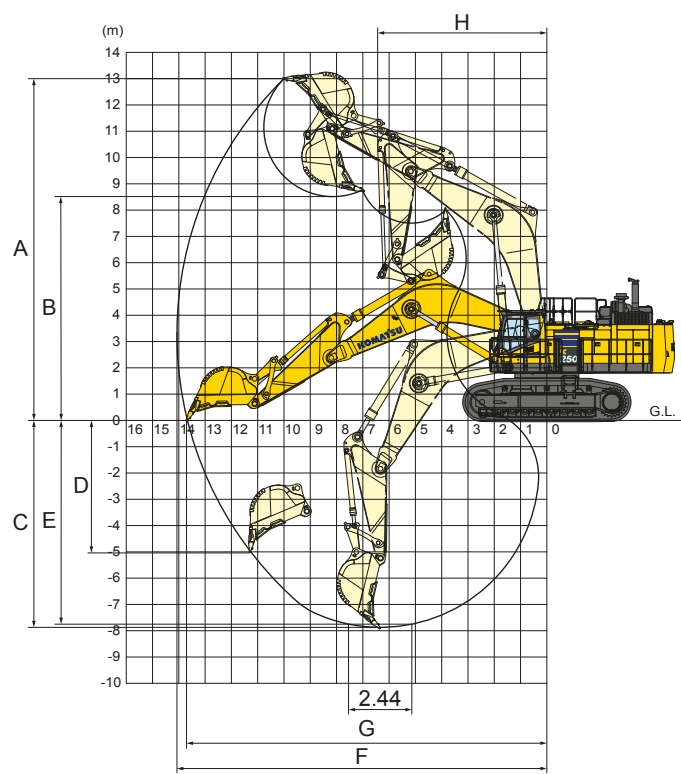
Backhoe SP specification dimensions

Unit: mm



Model	PC1250-11R SP
Boom Length	7,800 mm
Arm Length	3,400 mm
A Overall height	6,265 mm
B Overall length	14,790 mm

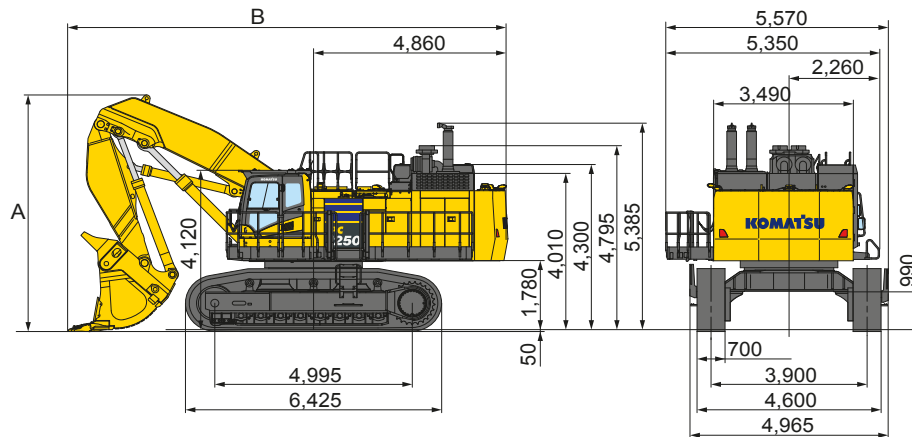
Backhoe SP specification dimensions working range



Model	PC1250-11R SP
Boom Length	7,800 mm
Arm Length	3,400 mm
A Max. digging height	13,000 mm
B Max. dumping height	8,450 mm
C Max. digging depth	7,900 mm
D Max. vertical wall digging depth	5,025 mm
E Max. digging depth of cut for 2440 mm level	7,745 mm
F Max. digging reach	14,070 mm
G Max. digging reach at ground level	13,670 mm
H Min. swing radius	6,415 mm
SAE J1179 Rating	
Bucket digging force	502 kN 51,200 kgf
Arm crowd force	395 kN 40,300 kgf
ISO 6015 Rating	
Bucket digging force	570 kN 58,100 kgf
Arm crowd force	412 kN 42,000 kgf

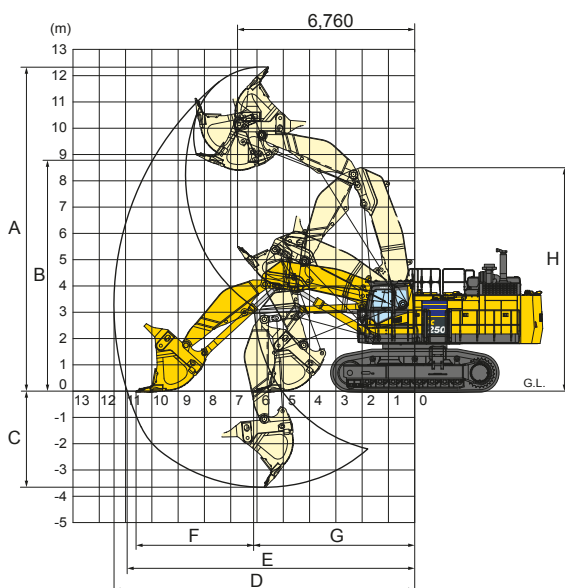
Loading shovel dimensions

Unit: mm



Type of bucket	Bottom dump
Capacity-heaped	6.50 m ³
A Overall height	6,200 mm
B Overall length	10,990 mm

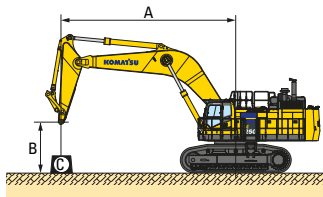
Loading shovel working range



Type of Bucket	Bottom Dump
Capacity-heaped	6.50 m ³
A Max. cutting height	12,330 mm
B Max. dumping height	8,700 mm
C Max. digging depth	3,650 mm
D Max. digging reach	11,400 mm
E Max. digging reach at ground level	10,900 mm
F Level crowding distance	4,480 mm
G Min. crowd distance	6,130 mm
H Max. height of minimum swing radius	8,500 mm
Bucket digging force	579 kN 59,000 kgf
Arm crowd force	608 kN 62,000 kgf

PC1250-11R

Lifting capacity with lifting mode



PC1250-11R

Equipment:

- Boom: 9.1 m
- Arm: 3.4 m
- Without bucket
- Track shoe width: 700 mm

A: Reach from swing center.

B: Arm top pin height.

C: Lifting capacity.

Cf: Rating over front.

Cs: Rating over side.

⊗: Rating at maximum reach.

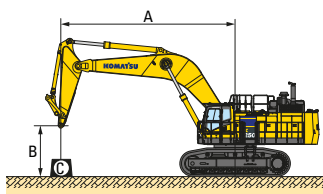
Heavy lift "ON"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*21,050 kg	20,050 kg			*21,400 kg	*21,400 kg								
6.1 m	20,150 kg	16,300 kg	20,750 kg	16,850 kg	*23,150 kg	21,100 kg	*25,900 kg	*25,900 kg	*30,700 kg	*30,700 kg				
3.0 m	18,650 kg	15,000 kg	19,950 kg	16,050 kg	24,400 kg	19,650 kg	*30,350 kg	24,500 kg	*37,750 kg	31,550 kg				
0.0 m	19,250 kg	15,400 kg	19,450 kg	15,550 kg	23,450 kg	18,700 kg	29,250 kg	23,150 kg	38,350 kg	30,000 kg				
-3.0 m	22,750 kg	18,200 kg			23,500 kg	18,750 kg	29,150 kg	23,100 kg	*38,000 kg	30,100 kg	*46,650 kg	42,850 kg	*39,600 kg	*39,600 kg
-6.1 m	*23,900 kg	*23,900 kg							*28,050 kg	*28,050 kg	*35,000 kg	*35,000 kg		

Heavy lift "OFF"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*19,050 kg	*19,050 kg			*18,900 kg	*18,900 kg								
6.1 m	*18,600 kg	16,300 kg	*19,150 kg	16,850 kg	*20,400 kg	*20,400 kg	*22,900 kg	*22,900 kg	*27,200 kg	*27,200 kg				
3.0 m	18,650 kg	15,000 kg	19,950 kg	16,050 kg	*22,800 kg	19,650 kg	*26,750 kg	24,500 kg	*33,350 kg	31,550 kg				
0.0 m	19,250 kg	15,400 kg	19,450 kg	15,550 kg	23,450 kg	18,700 kg	*28,800 kg	23,150 kg	*35,500 kg	30,000 kg				
-3.0 m	*21,450 kg	18,200 kg			*22,600 kg	18,750 kg	*27,550 kg	23,100 kg	*33,500 kg	30,100 kg	*41,100 kg	*41,100 kg	*36,000 kg	*36,000 kg
-6.1 m	*20,800 kg	*20,800 kg							*24,500 kg	*24,500 kg	*30,650 kg	*30,650 kg		

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



PC1250-11R

Equipment:

- Boom: 9.1 m
- Arm: 4.5 m
- Without bucket
- Track shoe width: 700 mm

A: Reach from swing center.

B: Arm top pin height.

C: Lifting capacity.

Cf: Rating over front.

Cs: Rating over side.

⊗: Rating at maximum reach.

Heavy lift "ON"

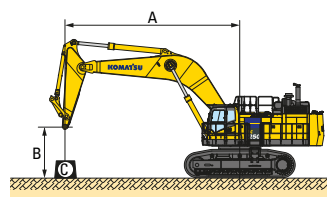
B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*14,400 kg	*14,400 kg	*17,050 kg	*17,050 kg										
6.1 m	*14,150 kg	*14,150 kg	*19,800 kg	17,200 kg	*21,200 kg	*21,200 kg	*23,500 kg	*23,500 kg						
3.0 m	*14,850 kg	13,250 kg	20,000 kg	16,100 kg	*24,350 kg	19,750 kg	*28,400 kg	24,800 kg	*35,050 kg	32,150 kg				
0.0 m	*16,750 kg	13,450 kg	19,150 kg	15,300 kg	23,250 kg	18,500 kg	29,050 kg	22,950 kg	38,050 kg	29,700 kg	*30,900 kg	*30,900 kg		
-3.0 m	19,250 kg	15,350 kg			22,850 kg	18,100 kg	28,500 kg	22,450 kg	37,550 kg	29,250 kg	*48,900 kg	41,450 kg	*34,850 kg	*34,850 kg
-6.1 m	*22,950 kg	21,250 kg					*26,350 kg	23,400 kg	*32,900 kg	30,300 kg	*40,600 kg	*40,600 kg	*51,100 kg	*51,100 kg

Heavy lift "OFF"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*12,950 kg	*12,950 kg	*15,350 kg	*15,350 kg										
6.1 m	*12,700 kg	*12,700 kg	*17,400 kg	17,200 kg	*18,650 kg	*18,650 kg	*20,750 kg	*20,750 kg						
3.0 m	*13,350 kg	13,250 kg	*19,100 kg	16,100 kg	*21,400 kg	19,750 kg	*25,000 kg	24,800 kg	*30,900 kg	*30,900 kg				
0.0 m	*15,050 kg	13,450 kg	19,150 kg	15,300 kg	23,250 kg	18,500 kg	*27,900 kg	22,950 kg	*34,600 kg	29,700 kg	*28,100 kg	*28,100 kg		
-3.0 m	*18,800 kg	15,350 kg			22,850 kg	18,100 kg	*28,050 kg	22,450 kg	*34,250 kg	29,250 kg	*43,100 kg	41,450 kg	*31,700 kg	*31,700 kg
-6.1 m	*20,000 kg	*20,000 kg					*23,050 kg	*23,050 kg	*28,800 kg	*28,800 kg	*35,650 kg	*35,650 kg	*44,800 kg	*44,800 kg

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting capacity with lifting mode



PC1250-11R

- Equipment:
- Boom: 9.1 m
 - Arm: 5.7 m
 - Without bucket
 - Track shoe width: 700 mm

- A: Reach from swing center.
B: Arm top pin height
C: Lifting capacity.
Cf: Rating over front.
Cs: Rating over side.
⊗: Rating at maximum reach.

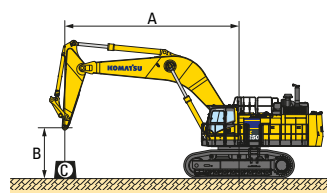
Heavy lift "ON"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*10,200 kg	*10,200 kg												
6.1 m	*10,050 kg	*10,050 kg	*16,850 kg	14,100 kg	*17,700 kg	17,500 kg								
3.0 m	*10,500 kg	*10,500 kg	16,600 kg	13,300 kg	*20,050 kg	16,200 kg	*22,400 kg	20,000 kg	*25,950 kg	25,250 kg	*31,650 kg	*31,650 kg		
0.0 m	*11,700 kg	11,600 kg	15,900 kg	12,600 kg	18,950 kg	15,100 kg	23,150 kg	18,350 kg	29,000 kg	22,950 kg	*37,400 kg	29,750 kg	*33,850 kg	*33,850 kg
-3.0 m	*14,150 kg	12,900 kg			18,450 kg	14,600 kg	22,350 kg	17,600 kg	27,950 kg	21,900 kg	36,900 kg	28,600 kg	*48,700 kg	40,400 kg
-6.1 m	*19,900 kg	16,700 kg					22,750 kg	18,000 kg	28,300 kg	22,250 kg	*35,500 kg	29,050 kg	*44,400 kg	41,400 kg

Heavy lift "OFF"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*9,100 kg	*9,100 kg												
6.1 m	*8,950 kg	*8,950 kg	*14,900 kg	14,100 kg	*15,500 kg	*15,500 kg								
3.0 m	*9,350 kg	*9,350 kg	*16,150 kg	13,300 kg	*17,550 kg	16,200 kg	*19,600 kg	*19,600 kg	*22,800 kg	*22,800 kg	*27,900 kg	*27,900 kg		
0.0 m	*10,400 kg	*10,400 kg	15,900 kg	12,600 kg	18,950 kg	15,100 kg	*22,200 kg	18,350 kg	*26,450 kg	22,950 kg	*32,900 kg	29,750 kg	*30,750 kg	*30,750 kg
-3.0 m	*12,650 kg	*12,650 kg			18,450 kg	14,600 kg	22,350 kg	17,600 kg	*27,700 kg	21,900 kg	*34,150 kg	28,600 kg	*43,750 kg	40,400 kg
-6.1 m	*17,900 kg	16,700 kg					*20,550 kg	18,000 kg	*25,300 kg	22,250 kg	*31,100 kg	29,050 kg	*38,950 kg	*38,950 kg

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



PC1250-11R SP specification

- Equipment:
- Boom: 7.8 m
 - Arm: 3.4 m
 - Without bucket
 - Track shoe width: 700 mm

- A: Reach from swing center.
B: Arm top pin height
C: Lifting capacity.
Cf: Rating over front.
Cs: Rating over side.
⊗: Rating at maximum reach.

Heavy lift "ON"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*19,400 kg	*19,400 kg					*27,000 kg	*27,000 kg						
6.1 m	*18,450 kg	*18,450 kg			26,250 kg	21,400 kg	*29,050 kg	27,650 kg	*33,150 kg	*33,150 kg	*40,350 kg	*40,350 kg		
3.0 m	*19,400 kg	18,250 kg			25,150 kg	20,350 kg	31,850 kg	25,650 kg	*39,650 kg	33,550 kg				
0.0 m	*22,500 kg	19,000 kg			24,450 kg	19,650 kg	30,500 kg	24,400 kg	40,150 kg	31,700 kg	*53,450 kg	44,450 kg		
-3.0 m	*26,650 kg	23,700 kg					*28,650 kg	24,600 kg	*36,850 kg	31,750 kg	*45,950 kg	44,800 kg	*57,250 kg	*57,250 kg
-6.1 m														

Heavy lift "OFF"

B \ A	⊗ MAX		12.2 m		10.7 m		9.1 m		7.6 m		6.1 m		4.6 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
9.1 m	*17,550 kg	*17,550 kg					*24,100 kg	*24,100 kg						
6.1 m	*16,550 kg	*16,550 kg			*23,750 kg	21,400 kg	*25,850 kg	*25,850 kg	*29,550 kg	*29,550 kg	*36,100 kg	*36,100 kg		
3.0 m	*17,500 kg	*17,500 kg			*25,150 kg	20,350 kg	*29,050 kg	25,650 kg	*35,250 kg	33,550 kg				
0.0 m	*20,300 kg	19,000 kg			24,450 kg	19,650 kg	*30,250 kg	24,400 kg	*37,150 kg	31,700 kg	*47,450 kg	44,450 kg		
-3.0 m	*23,450 kg	*23,450 kg					*25,250 kg	24,600 kg	*32,550 kg	31,750 kg	*40,650 kg	*40,650 kg	*50,600 kg	*50,600 kg
-6.1 m														

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

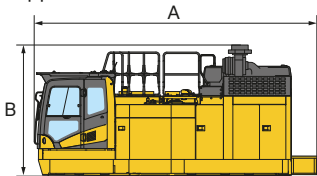
PC1250-11R

Transportation guide

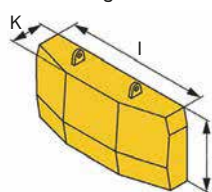
Transportation volume

Item	Unit	Model	PC1250-11R			
			Standard specification		SP specification	Loading shovel
			Heavy duty bucket	General purpose bucket	SP Bucket	Loading shovel bucket
Upper structure	Length (A) × Height (B) × Width	mm	6,780 × 3,030 × 3,495			
	Weight (Including lifting jig)	t	29.5			
Track frame	Length (C) × Height (D) × Width (E)	mm	6,365 × 1,310 × 1,585			
	Weight	t	31.6 (15.8 t × 2)			
Center frame	Length (F) × Height (G) × Width (H)	mm	2,850 × 1,170 × 3,540			
	Weight	t	10.2			
Counterweight	Length (I) × Height (J) × Width (K)	mm	3,490 × 1,995 × 855			
	Weight	t	16.6			
Work equipment assembly	Weight	t	27.2	25.8	27.9	28.4
Boom	Length × Height × Width	mm	9,475 × 2,894 × 1,474		8,170 × 3,095 × 1,474	5,650 × 1,500 × 2,000
	Weight	t	11.2		11.0	7.1
Arm	Length × Height × Width	mm	4,895 × 1,626 × 890		4,914 × 1,683 × 890	4,100 × 1,300 × 1,900
	Weight	t	6.4		6.6	5.2
Arm cylinder	Length	mm	3,950			2,980
	Weight	t	1.5			1.2 (0.6t × 2)
Boom cylinder	Length	mm	3,810			3,520
	Weight	t	2.4 (1.2t × 2)			2.2 (1.1t × 2)
Bucket cylinder	Length	mm	Included in arm			3,300
	Weight	t	Included in arm			1.7 (0.85t × 2)
Bucket	Length (L) × Height (M) × Width	mm	2,580 × 2,276 × 2,310	2,700 × 2,100 × 2,220	2,527 × 2,420 × 2,530	3,000 × 2,700 × 2,800
	Weight	t	5.8	4.4	6.5	11.0
Others	Weight	t	1.3			
Right duct	Length (N) × Height (O)	mm	2,015 × 220			
	Weight	kg	15			
	Length (P) × Height (Q)	mm	2,015 × 1,960			
	Weight	kg	140			
Catwalk	Length (R) × Width (S)	mm	2,670 × 1,120			
	Weight	kg	266			
	Length (T) × Width (U)	mm	700 × 500			
	Weight	kg	40			
	Length (V) × Width (W)	mm	2,725 × 620			
	Weight	kg	190			
Handrail, Covers, Exhaust tube, step	Weight	kg	660			

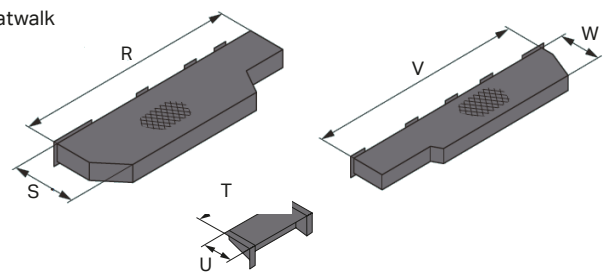
Upper frame



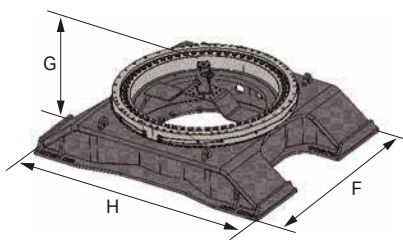
Counterweight



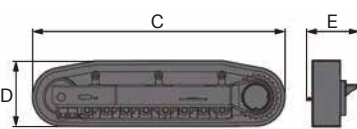
Catwalk



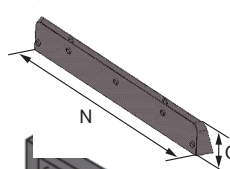
Center frame



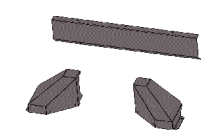
Track frame



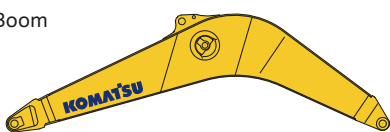
Right duct



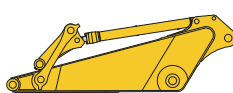
Covers



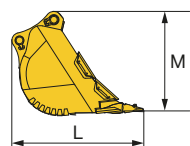
Boom



Arm



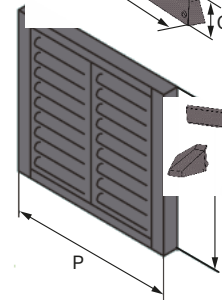
Bucket



Arm cylinder



Boom cylinder



Exhaust tube



Standard equipment

Engine

- Automatic engine warm-up system.
- Coolant filter.
- Dry type air cleaner, double element with pre-cleaner.
- Engine, Komatsu SAA6D170E-7.
- Large capacity fuel pre-filter with water separator.
- Variable speed cooling fan, hydraulic drive, reversible.

Electrical system

- Alternator, 24 V/90 A.
- Auto-decelerator, Auto-idling system.
- Auto idle shutdown (programmable).
- Batteries, 2 x 12 V/220 Ah (20-hour rate capacity).
- Battery disconnect switch.
- Circuit breaker.
- Horn interconnected with warning light (LED).
- Lock lever auto lock.
- Power supply, 12 V.
- Starting motor, 2 x 24 V/11k W.
- Step light with timer (LED).
- Walkway light (LED).
- Working light, 2 boom, 2 cab roof front, 1 right front (LED).

Guards and covers

- Cab guards.
 - Bolt-on top guard, OPG Level 2 (ISO 10262).
- Radiator and oil cooler dustproof net.
- Strengthened revolving frame underguards.
- Track frame undercovers (Center).
- Track roller guard (Full length).
- Travel motor guards.

Hydraulic system

- 2 speed travel with auto shift.
- 3-mode system (Power plus, Power, Economy).
- Automatic swing holding brake.
- Fully hydraulic, with Open-Center Load-Sensing and engine speed sensing (Pump and engine mutual control system).
- Heavy lift mode.
- In-line high pressure filters.
- Pressure Proportional Control (PPC) hydraulic control system.
- Shockless control system for boom.
- Two-mode setting for boom.

Operator environment

- A/C with defroster.
- AM/FM radio.
- Auxiliary input (3.5 mm jack).
- Cab with fixed type front window.
- Engine shut down secondary switch.
- High back air suspension seat, with heater.
- KomVision.
- Large high resolution LCD color monitor.
- Lock lever.
- Mirrors (RH, LH).
- Rear & Side view monitor system.
- Seat belt, retractable, 78 mm.
- Washable cab floor mat.

Other equipment

- Counterweight, 16,600 kg.
- Electric priming pump for fuel.
- Equipment Management Monitoring System.
- General tool kit.
- Grease gun, electric grease pump.
- Hand rails & guard rails.
- Horn, electric.
- Komtrax Plus.
- One-touch engine oil drainage.

- Preventive Maintenance (PM) tune-up service connector.
- Rear reflectors.
- Seat belt indicator.
- Slip-resistant plates.
- Travel alarm.
- Vandalism protection locks.
- Wide catwalk.

Undercarriage

- Carrier rollers, 3 (Each side).
- Hydraulic track adjusters (Each side).
- Track rollers, 8 (Each side).
- Track shoes, 700 mm double grouser.

Optional equipment

Electrical system

- Rear working light (LED).

Guards and covers

- Cab guards.
 - Full front guard, OPG Level 2 (ISO 10262).
- Track guiding guards (Each side).

Operator environment

- Bluetooth® radio.
- Cab with pull-up type front window.

Other equipment

- Beacon, 2 (Cab top, Counterweight top).
- Coolant heater.
- Emergency stop SW, 3 (inside Cab, LH catwalk, RH deck).
- Engine oil pan heater.
- Fuel quick charge system.
- Hydraulically operated stairway.
- Refill type electric automatic greasing system.

Undercarriage

- Shoes.
 - 1,000 mm double grouser.

Work equipment

- Arms (Backhoe).
 - 3,400 mm arm assembly.
 - 4,500 mm arm assembly.
 - 5,700 mm arm assembly.
- Arms (L/S) - 3,800 mm Loading shovel arm assembly.
- Booms (Backhoe).
 - 7,800 mm SP boom assembly.
 - 9,100 mm boom assembly.
- Booms (L/S) - 5,300 mm Loading shovel boom assembly.



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