

KOMATSU®

PC228USLC-10

Tier 4 Interim Engine

PC228USLC

NET HORSEPOWER

158 HP @ 2000 rpm
116 kW @ 2000 rpm

OPERATING WEIGHT

55,336–54,123 lb
24550–25100 kg

BUCKET CAPACITY

0.66–1.57 yd³
0.50–1.20 m³



PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT

PC228USLC

WALK-AROUND

PC228USLC-10



Photos may include optional equipment

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CONVENTIONAL PERFORMANCE IN A TIGHT TAIL BODY

Contoured cab profile allows the cab to swing within the same swing radius as the counterweight for true tight tail performance.

New engine and hydraulic pump control technology improves operational efficiency and lowers fuel consumption by up to 4%.

A powerful Komatsu SAA6D107E-2 engine provides a net output of 116 kW **158 HP**. This engine is EPA Tier 4 Interim.

Komatsu Variable Geometry Turbocharger (KVGT) uses a hydraulic actuator to provide proper air flow under all speed and load conditions.

Komatsu Diesel Particulate Filter (KDPF) captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

Komatsu's Closed Center Load Sensing (CLSS) hydraulic system provides quick response and smooth operation to maximize productivity.

Enhanced working modes are designed to match engine speed, pump delivery, and system pressure to the application.

Large LCD color monitor panel:

- 7" high resolution screen
- Provides "Eco-Guidance" for fuel efficient operation
- Enhanced attachment control
- Aux jack and (2) 12V outlets

Rearview monitoring system (standard)

Equipment Management Monitoring System (EMMS)

continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Enhanced working environment

- High back, heated, and air suspension operator seat
- Integrated ROPS cab design (ISO 12117-2)
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard (ISO 10262)



Wide access service doors

provide easy access for ground level maintenance.

Guardrails (standard) provide convenient access to the upper structure.

Battery disconnect switch

allows a technician to disconnect the power supply before servicing the machine.

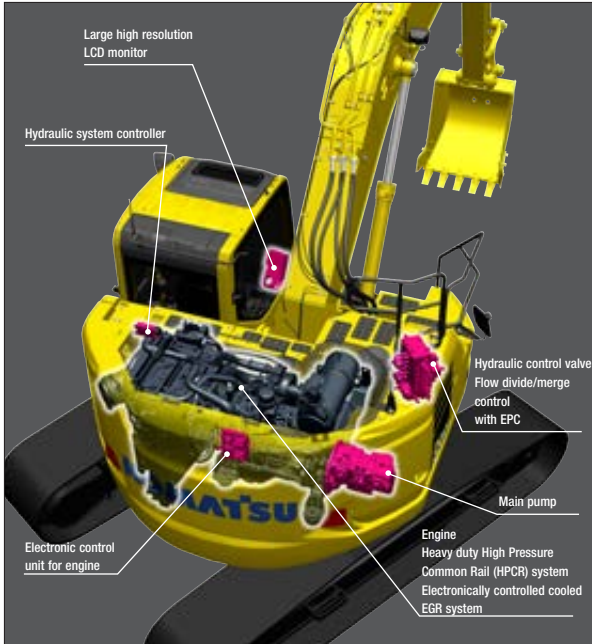
Komatsu designed and manufactured components

Side by side cooler design

provides easy access to service and clean the cooler assembly.

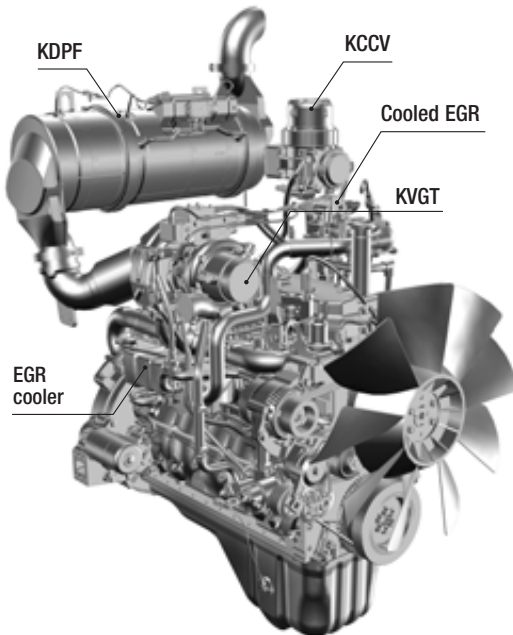
KOMTRAX®

Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.



Advanced Electronic Control System

The engine control system has been upgraded to effectively manage the air flow rate, EGR gas flow rate, fuel injection parameters, and aftertreatment functions. The new control system also provides enhanced diagnostic capabilities.



Environment-Friendly Engine

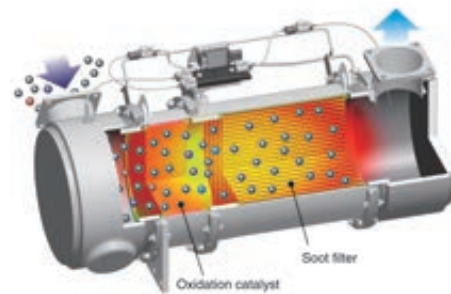
The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more than 90% and nitrogen oxides (NOx) by more than 45% when compared to Tier 3 levels.

Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.

Komatsu Diesel Particulate Filter (KDPF)

Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system is used to oxidize and remove particulate matter while the machine is running so the regeneration process will not interfere with daily operation.

The operator can also initiate regeneration manually or disable regeneration depending on the work environment.



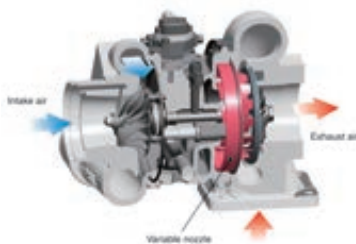
Closed Crankcase Ventilation (CCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The CCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil mist free, is fed back to the air intake.



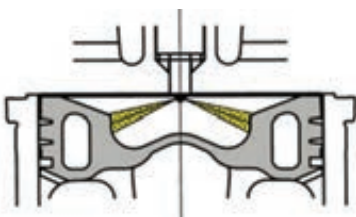
Komatsu Variable Geometry Turbocharger (KVG T)

Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic actuator is used to manage and deliver optimum air flow to the combustion chamber under all speed and load conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas and improved fuel economy while maintaining performance.



Redesigned Combustion Chamber

The combustion chamber located at the top of the engine piston has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption, and noise levels.

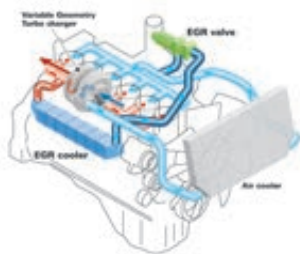


Low Operational Noise

The PC228USLC-10 provides low noise operation using a low noise engine and methods that reduce noise at the source such as sound absorbing materials.

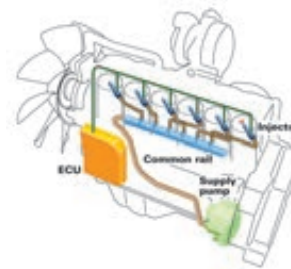
Cooled Exhaust Gas Recirculation (EGR)

Cooled EGR, a technology that has been well proven in Komatsu Tier 3 engines, reduces NOx emissions to meet Tier 4 Interim levels. The hydraulically actuated EGR system has increased capacity and uses larger and more robust components to ensure reliability for demanding work conditions.



Heavy Duty High Pressure Common Rail (HPCR) Fuel Injection System

The heavy duty HPCR system is electronically controlled to deliver a precise quantity of pressurized fuel into the combustion chamber using multiple injection events to achieve complete fuel burn and reduce exhaust gas emissions. Fuel injector reliability has been improved by using ultra-hard wear resistant materials.



Large Digging Force

The PC228USLC-10 is equipped with the Power Max system. This function temporarily increases digging force for 8.5 seconds of operation.

Maximum arm crowd force (ISO):

101 kN (10.3 t) ➔ **108 kN (11.0 t)** **7 % UP**
(with Power Max.)

Maximum bucket digging force (ISO):

138 kN (14.1 t) ➔ **149 kN (15.2 t)** **8 % UP**
(with Power Max.)

* Measured with Power Max function, 2925 mm arm and ISO rating



Efficient Hydraulic System

The PC228USLC-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator's demands.

The PC228USLC-10 also introduces new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

Reduced Up To 4% Fuel consumption

vs PC228USLC-8
Based on typical work pattern collected via KOMTRAX

Large Displacement High Efficiency Pump

Pump displacement has been increased, providing increased flow output as well as operation at the most efficient engine speed.



Eco Guidance

To reduce unnecessary fuel consumption, an idling caution is displayed on the monitor if the engine idles for 5 minutes or more.



Working Mode Selection

The PC228USLC-10 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC228USLC-10 features a new mode (ATT/E) which allows operators to run attachments while in Economy mode.

Working Mode	Application	Advantage
P	Power mode	<ul style="list-style-type: none"> •Maximum production/power •Fast cycle times
E	Economy mode	<ul style="list-style-type: none"> •Good cycle times •Better fuel economy
L	Lifting mode	<ul style="list-style-type: none"> •Increases hydraulic pressure
B	Breaker mode	<ul style="list-style-type: none"> •Optimum engine rpm, hydraulic flow, 1-way
ATT/P	Attachment Power mode	<ul style="list-style-type: none"> •Optimum engine rpm, hydraulic flow, 2-way •Power mode
ATT/E	Attachment Economy mode	<ul style="list-style-type: none"> •Optimum engine rpm, hydraulic flow, 2-way •Economy mode

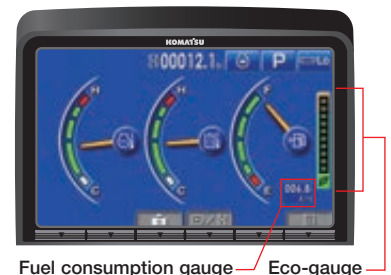


Lifting Mode

When the Lifting mode is selected, the lift capacity is increased 7% by raising the hydraulic pressure.

Eco-Gauge Assists with Energy Saving Operations

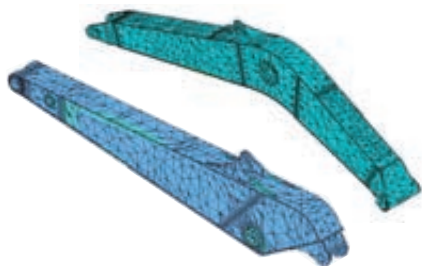
The Eco-gauge and new fuel consumption gauge are viewed on the right side of the color monitor and assist the operator in maintaining low fuel consumption and environment friendly operation.



RELIABILITY FEATURES

High Rigidity Work Equipment

Booms and arms are constructed with thick plates of high tensile strength steel. In addition, these structures are designed with large cross-sectional areas and large one piece castings in the boom foot, the boom tip, and the arm tip. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress.



Komatsu Designed Components

All of the major machine components such as the engine, hydraulic pumps, hydraulic motors, and control valves are exclusively designed and manufactured by Komatsu.

High Efficiency Fuel Filter

A new high efficiency dual element fuel filter improves fuel system reliability.

Equipped with a Fuel Pre-filter (With Water Separator)

A fuel pre-filter removes water and contaminants in the fuel to increase reliability. For convenience, the fuel pre-filter has a built in priming pump.



Fuel Filter Fuel Pre-filter (with Water Separator)

O-Ring Face Seals

Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections.

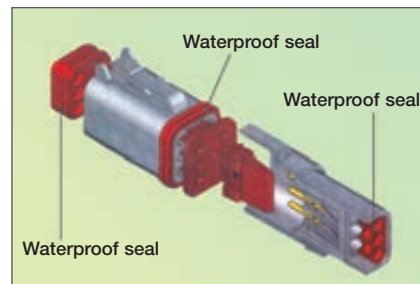


Durable Frame Structure

The revolving frame, center frame, and undercarriage are designed using the most advanced three dimensional CAD and FEM analysis technology.

DT-type Connectors

Sealed DT-type connectors provide high reliability, water resistance, and dust resistance.



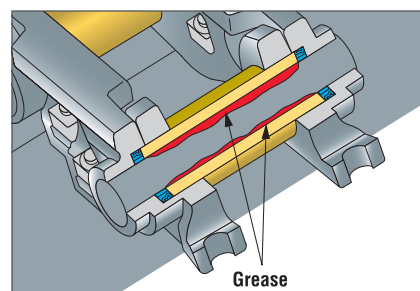
Waterproof seal

Waterproof seal

Waterproof seal

Grease Sealed Track

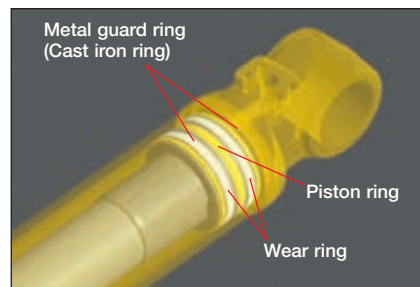
The PC228USLC-10 uses grease sealed tracks for extended undercarriage life.



Grease

Metal Guard Rings

The PC228USLC-10 uses metal guard rings to protect all of the hydraulic cylinders and improve long term reliability.



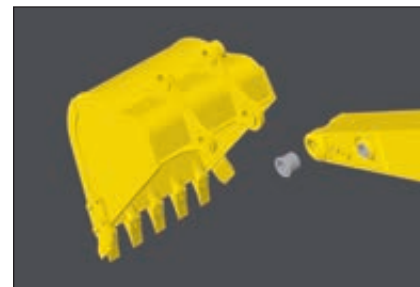
Metal guard ring (Cast iron ring)

Piston ring

Wear ring

Durable Arm Tip Bushing

The end face of the arm tip bushing provides high resistance to seizure and wear.



Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

- Controllers
- Sensors
- Connectors
- Heat Resistant Wiring



Newly Designed Wide Spacious Cab

The newly designed wide spacious cab features a high back, fully adjustable seat with a reclining backrest. The console and seat have an integrated design so that they move together and provide additional comfort for the operator.

The new higher capacity operator seat has been enhanced to provide more comfort.

- Heated
- Air Suspension
- Integrated Seat
- Console Mounted Arm Rests



Low Cab Noise

The new cab design is highly rigid and has excellent sound absorption ability. By improving noise source reduction and by using a low noise engine, hydraulic equipment, and air conditioner, this machine is able to generate low noise levels similar to that of a modern automobile.

Automatic Climate Control

The automatic air conditioner allows the operator to easily and precisely set the cab atmosphere using the large LCD color monitor panel. The bi-level control function improves air flow and keeps the inside of the cab comfortable throughout the year.

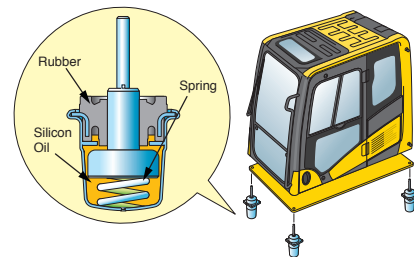


Pressurized Cab

The air conditioner, air filter, and a higher internal cab air pressure minimize the amount of external dust that enters the cab.

Low Vibration with Viscous Cab Mounts

The PC228USLC-10 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator's seat.



Auxiliary Input (MP3 Jack)

By connecting an auxiliary device such as an MP3 player to the auxiliary input, the operator can hear the sound through the speakers installed in the cab.





Large High Resolution LCD Monitor Panel

A new large, user-friendly, high resolution LCD color monitor enables accurate and smooth work. Screen visibility and resolution are further improved compared to the previous LCD monitor panel. The switches and function keys are easy to operate and provide simple navigation through the monitor screens.

Data is displayed in 25 languages to support operators around the world.

Indicators

- | | |
|----------------------------------|-----------------------------------|
| 1 Auto-decelerator | 5 Hydraulic oil temperature gauge |
| 2 Working mode | 6 Fuel gauge |
| 3 Travel speed | 7 Eco-gauge |
| 4 Engine water temperature gauge | 8 Fuel consumption gauge |
| | 9 Function switches menu |

Basic operation switches

- | | |
|-------------------------|---------------------|
| 1 Auto-decelerator | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper |
| 3 Traveling selector | 6 Windshield washer |

Basic operation switches

Function switches

Air conditioner operation switches

Operational "ECO" Guidance

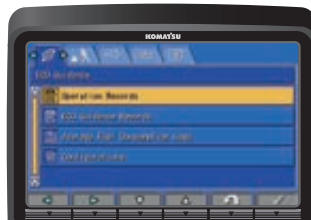
The monitor panel provides operational advice to the operator to help improve machine efficiency and lower fuel consumption. The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption Logs.

Improved Attachment Control

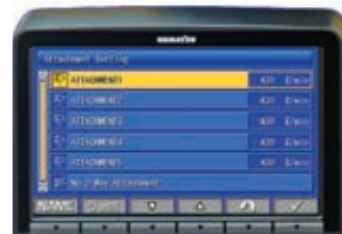
The PC228USLC-10 is capable of storing up to ten different attachments in the new monitor panel. The name of each attachment can be changed for better tool management. Hydraulic flow rates can be easily adjusted for one-way and two-way flow attachments.



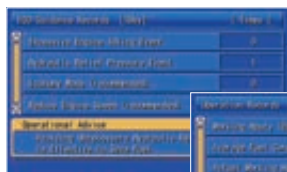
ECO Guidance



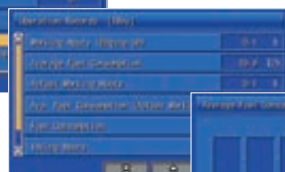
ECO Guidance menu



Attachment Setting Screen



ECO Guidance Records



Operation Records



Average Fuel Consumption Logs

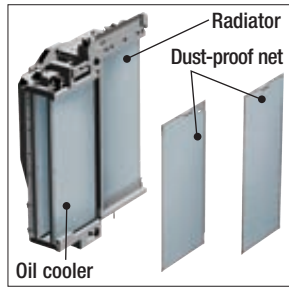


Attachment Flow Screen

MAINTENANCE FEATURES

Side-by-side Cooling

The radiator and oil cooler are side-by-side modules which simplifies cleaning, removing, and installing. The swing out cooler design provides easier access to the cooling cores.



Long Life Oils, Filters

High performance filters are used in the hydraulic circuit and engine. By increasing the oil and filter replacement intervals, maintenance costs can be significantly reduced.



Hydraulic oil filter (Eco-white element)

KDPF Regeneration

The LCD color monitor panel provides the operator with the status of the KDPF regeneration, without interfering with daily operation.

When the machine initiates active regeneration an icon will appear to notify the operator.

Soot trapped by and accumulated in the KDPF is removed by oxidizing it periodically and automatically.



Engine oil & Engine oil filter	every 500 hours
Hydraulic oil	every 5000 hours
Hydraulic oil filter	every 1000 hours

Extended Work Equipment Greasing Intervals

Special hard material is used for the work equipment bushings to lengthen the greasing intervals. All work equipment bushing lubrication intervals, except the arm tip and bucket linkage, are 500 hours, reducing maintenance costs.

Battery Disconnect Switch

A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.



Manual Stationary Regeneration

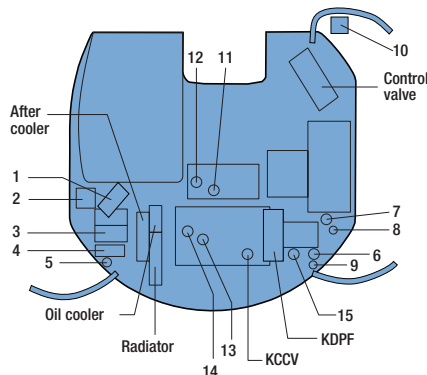
Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel.

A soot level indicator is displayed to show how much soot is trapped in the KDPF.



Efficient Maintenance Layout

With the left and right side service doors, it is easy to access major maintenance points from ground level. The fuel drain valve, engine oil filter and PTO oil filler are remote mounted, facilitating easy maintenance.



- 1. Air cleaner
- 2. Coolant reserve tank
- 3. Batteries
- 4. Tool box
- 5. Grease gun holder
- 6. Fuel pre-filter (with water separator)
- 7. Engine oil filter
- 8. Fuel drain valve
- 9. Oil filler for PTO
- 10. Windshield washer tank
- 11. Oil level check pipe for machinery
- 12. Oil filler for machinery
- 13. Engine oil check pipe
- 14. Engine oil filler
- 15. Fuel filter

Slip Resistant Plates

Durable slip resistant plates help maintain excellent foot traction.



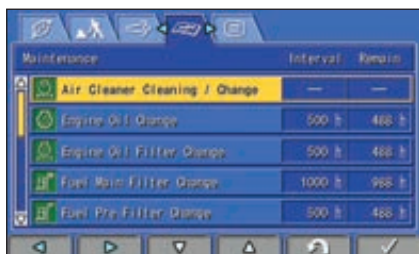
Equipment Management Monitoring System (EMMS)

The PC228USLC-10 features an advanced diagnostic system that continuously monitors the machine's vital systems. EMMS tracks maintenance items, provides advanced troubleshooting tools, reduces diagnostic times, and displays error codes.

Through continuous monitoring, the EMMS helps identify issues before they become worse and allows the operator to concentrate on the work at hand.

Maintenance Tracking

When the machine approaches or exceeds the oil and filter replacement interval, the monitor panel will display lights to inform the operator.



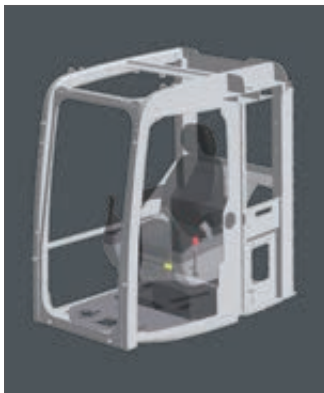
Rear View Monitoring System

The operator can view the area behind the machine via a color monitor screen with wide landscape view.



ROPS Cab Design

The PC228USLC-10 is equipped with an integrated ROPS cab as standard equipment. The cab also meets OPG Top Guard Level 1 requirements.



Abnormalities Display with Code

When an abnormality occurs an error code is displayed on the monitor. When an important code is displayed, a caution lamp blinks and warning buzzer sounds to alert the operator to take action. The monitor also stores a record of abnormalities for more effective troubleshooting.



Advanced Monitoring System

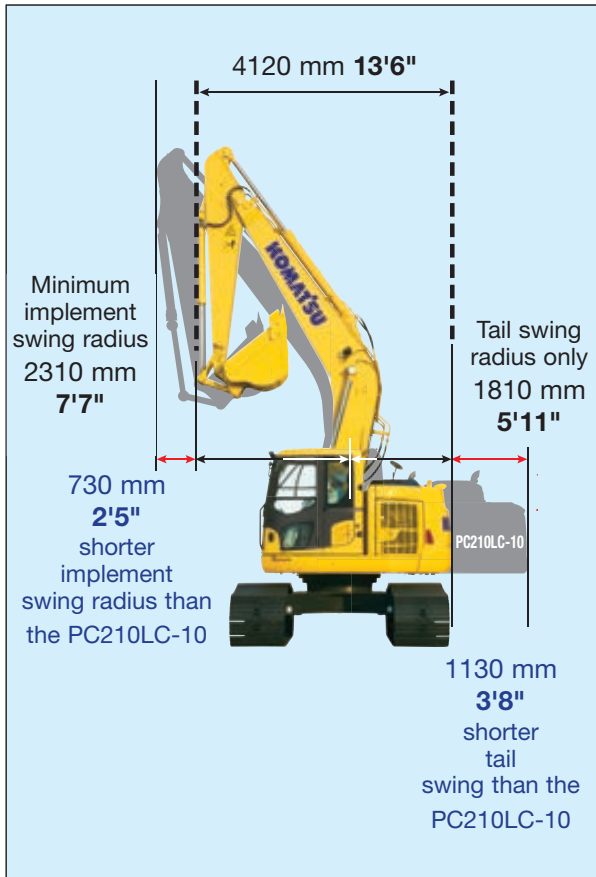
The monitor provides advanced monitoring diagnostics to assist with troubleshooting and reduce costly downtime.



Easily Accessible Pattern Change Valve

A standard pattern change valve is conveniently located at the front of the machine, making switching from ISO controls to backhoe controls quick and easy.





Short Implement Swing Radius

The 2310 mm 7'7" boom raising angle of the PC228USLC-10 is larger than a conventional profile excavator, reducing the front implement swing radius.

Short Tail Swing Radius

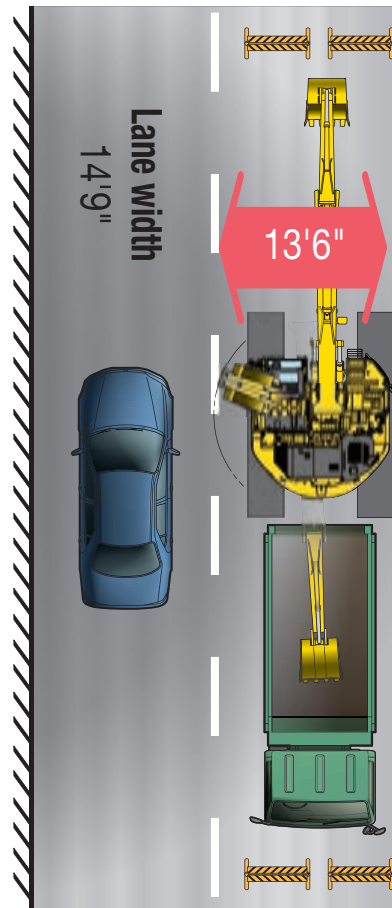
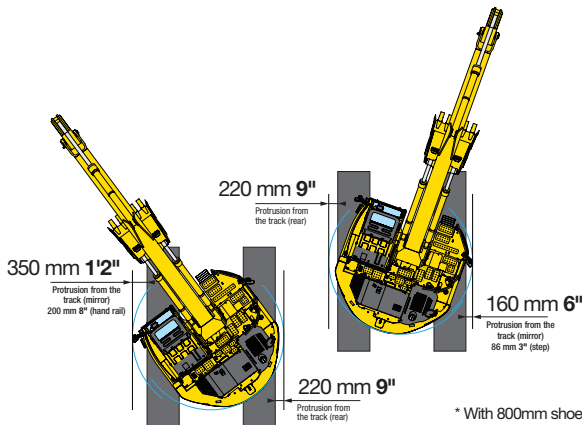
A short tail swing radius allows the machine to work in more confined areas than a conventional excavator.

Ideal For Confined Applications

The PC228USLC-10 is an ideal machine for applications such as roadwork and demolition. The tight tail design minimizes the amount of overhang when swinging over the side. This allows a truck to be positioned closer to the machine to improve operator efficiency and allows the machine to work within one lane traffic.

True Tight Tail Performance

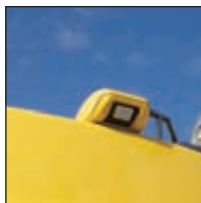
The versatile PC228USLC-10 can fit into areas where a conventional machine cannot. The contoured cab design and convex sliding door allow the cab to swing within the same turning radius as the counterweight.



GENERAL FEATURES

Rear-view Monitoring System (standard)

On the large LCD color monitor the operator can view the image from one camera that will display areas directly behind the machine. An optional 2-camera system is available.



Rear view image on monitor

Seat Belt Caution Indicator

A warning indicator on the monitor appears when the seat belt is not engaged.



Lock Lever

When the lock lever is placed in the lock position, all hydraulic controls (travel, swing, boom, arm, and bucket) are inoperable.



Secondary Engine Shutdown Switch

A new secondary switch has been added to shutdown the engine.



Access to the Upper Structure

Steps with toe guard and slip resistant plates aid in foot traction. Handrails are also conveniently located on the upper structure.





Komatsu CARE – Complimentary Scheduled Maintenance

- PM services for the earlier of 3 years / 2000 hours
- Performed by factory certified technicians
- Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high uptime and reliability
- Increases resale value and provides detailed maintenance records
- Extended PM services can be purchased beyond the complimentary period to provide additional peace of mind and maximize uptime



Komatsu CARE – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH
KOMTRAX[®]

✓ WHAT

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **aids in making repair or replacement decisions**

✓ WHEN

- Know when your machines are **running or idling** and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance was done** and help you plan for future maintenance needs

✓ WHERE

- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ WHO

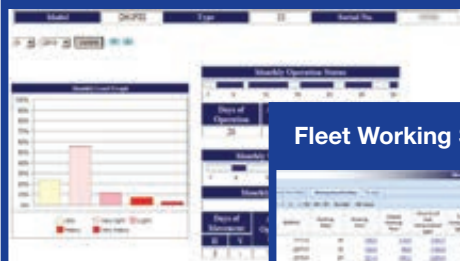
- KOMTRAX is **standard** equipment on all Komatsu construction products

✓ WHY

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere



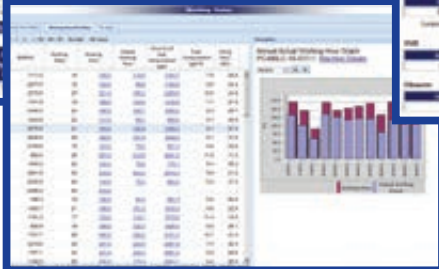
Monthly Operational Analysis



Location/Hours/Working



Fleet Working Status



KOMTRAX[®]

For construction and compact equipment.

KOMTRAX Plus[™]

For production and mining class machines.



ENGINE

Model..... Komatsu SAA6D107E-2*
 Type..... Water-cooled, 4-cycle, direct injection
 Aspiration... Komatsu Variable Geometry Turbo air-to-air aftercooled
 Number of cylinders..... 6
 Bore..... 107 mm **4.21"**
 Stroke..... 124 mm **4.88"**
 Piston displacement..... 6.69 ltr **408 in³**
 Horsepower:
 SAE J1995.....Gross 123 kW **165 HP**
 ISO 9249 / SAE J1349.....Net 116 kW **158 HP**
 Rated rpm..... 2000
 Governor..... All-speed control, electronic
 Lubrication system:
 Method.....Gear pump, force-lubrication
 Filter..... Full-flow
 Air cleaner..... Air cleaner, double element and auto dust evacuator

*EPA Tier 4 Interim



HYDRAULICS

Type..... HydraulMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valve and pressure compensated valve
 Main pump:
 Type.....Variable capacity piston type
 Pumps for.....Boom, arm, bucket, swing, and travel circuits
 Maximum flow..... 475 ltr/min **125.5 gal/min**
 Hydraulic motors:
 Travel..... 2 x piston motor with parking brake
 Swing..... 1 x axial piston motor with swing holding brake
 Relief valve setting:
 Travel..... 37.7 MPa 380 kgf/cm² **5,400 psi**
 Pilot circuit..... 3.2 MPa 33 kgf/cm² **470 psi**
 Implement circuits..... 37.3 MPa 380 kgf/cm² **5,400 psi**
 Swing circuit..... 29.4 MPa 299 kgf/cm² **4,264 psi**
 Hydraulic cylinders:
 (Number of cylinders – bore x stroke x rod diameter)
 Boom 2–130 mm x 1385 mm x 90 mm **5.11" x 54.5" x 3.5"**
 Arm 1–135 mm x 1490 mm x 95 mm **5.3" x 58.7" x 3.7"**
 Bucket.. 1–115 mm x 1120 mm x 80 mm **4.5" x 44.1" x 3.2"**



DRIVES AND BRAKES

Steering control..... Two levers with pedals
 Drive method..... Fully hydrostatic
 Maximum drawbar pull..... 202 kN 20600 kgf **45,410 lbf**
 Maximum travel speed: High..... 5.5 km/h **3.4 mph**
 Medium..... 4.1 km/h **2.5 mph**
 Low..... 3.0 km/h **1.9 mph**
 Service brake..... Hydraulic lock
 Parking brake..... Mechanical disc



SWING SYSTEM

Driven by..... Hydraulic motor
 Swing reduction..... Planetary gear
 Swing circle lubrication..... Grease-bathed
 Swing lock..... Mechanical disc brake
 Swing speed..... 11.0 rpm
 Swing torque..... 6656 kg•m **48,124 ft lbs**



UNDERCARRIAGE

Center frame..... X-frame leg
 Track frame..... Box-section
 Track type..... Sealed
 Track adjuster..... Hydraulic
 Number of shoes (each side)..... 49
 Number of carrier rollers (each side)..... 2
 Number of track rollers (each side)..... 9



COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 310 ltr **82 U.S. gal**
 Radiator..... 30 ltr **7.9 U.S. gal**
 Engine..... 23.1 ltr **6.1 U.S. gal**
 Final drive, each side..... 5.0 ltr **1.4 U.S. gal**
 Swing drive..... 6.5 ltr **1.7 U.S. gal**
 Hydraulic tank..... 126 ltr **33.3 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Operating weight including 5700 mm **18'8"** one-piece boom, 2925 mm **9'7"** arm, SAE heaped 0.80 m³ **1 yd³** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure
600 mm 24"	24550 kg 54,123 lb	50.7 kPa 0.52 kg/cm² 7.35 psi
700 mm 28"	24820 kg 54,719 lb	43.9 kPa 0.45 kg/cm² 6.37 psi
800 mm 32"	25100 kg 55,336 lb	38.8 kPa 0.40 kg/cm² 5.63 psi



WORKING FORCES

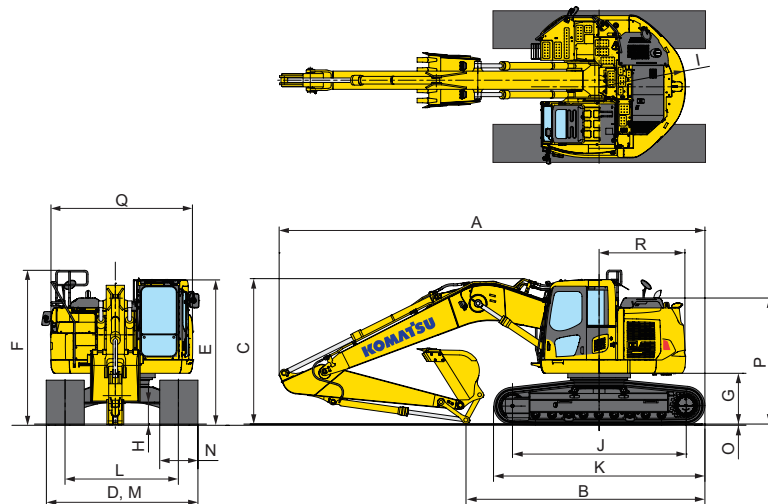
	Arm Length	2925 mm 9'7"
ISO rating	Bucket digging force at power max	149 kN 15200 kgf / 33,500 lb
	Arm crowd force at power max	108 kN 11000 kgf / 24,250 lb
SAE rating	Bucket digging force at power max	138 kN 14100 kgf / 31,085 lb
	Arm crowd force at power max	101 kN 10300 kgf / 22,710 lb



DIMENSIONS

	Arm Length	2925 mm	9'7"
A	Overall length	8920 mm	29'3"
B	Length on ground (transport)	5030 mm	16'6"
C	Overall height (to top of boom)	3040 mm	10'0"
D	Overall width**	3180 mm	10'5"
E	Overall height (to top of cab)*	3065 mm	10'1"
F	Overall height (to top of handrail)*	3255 mm	10'8"
G	Ground clearance, counterweight	1075 mm	3'6"
H	Ground clearance, minimum	440 mm	1'5"
I	Tail swing radius	1810 mm	5'11"
J	Track length on ground	3655 mm	12'0"
K	Track length	4450 mm	14'7"
L	Track gauge	2380 mm	7'10"
M	Width of crawler	3180 mm	10'5"
N	Shoe width	800 mm	2'7"
O	Grouser height	26 mm	1"
P	Engine hood height*	2675 mm	8'9"
Q	Machine upper structure width**	2980 mm	9'9"
R	Distance, swing center to rear end	1810 mm	5'11"

* : Including grouser height ** : Without mirror



BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket				Arm		2.9 m (9'6")
	Capacity		Width	Weight			
Komatsu TL	0.50 m ³	0.66 yd³	610 mm	24"	605 kg	1,334 lb	●
	0.67 m ³	0.88 yd³	762 mm	30"	689 kg	1,518 lb	●
	0.85 m ³	1.11 yd³	914 mm	36"	780 kg	1,719 lb	●
	1.02 m ³	1.34 yd³	1067 mm	42"	857 kg	1,890 lb	○
	1.20 m ³	1.57 yd³	1219 mm	48"	949 kg	2,092 lb	□
Komatsu HP	0.50 m ³	0.66 yd³	610 mm	24"	652 kg	1,437 lb	●
	0.67 m ³	0.88 yd³	762 mm	30"	763 kg	1,681 lb	●
	0.85 m ³	1.11 yd³	914 mm	36"	868 kg	1,913 lb	●
	1.02 m ³	1.34 yd³	1067 mm	42"	950 kg	2,095 lb	○
	1.20 m ³	1.57 yd³	1219 mm	48"	1066 kg	2,349 lb	⊙
Komatsu HPS	0.50 m ³	0.66 yd³	610 mm	24"	724 kg	1,597 lb	●
	0.67 m ³	0.88 yd³	762 mm	30"	840 kg	1,851 lb	●
	0.85 m ³	1.11 yd³	914 mm	36"	962 kg	2,120 lb	●
	1.02 m ³	1.34 yd³	1067 mm	42"	1061 kg	2,339 lb	□
	1.20 m ³	1.57 yd³	1219 mm	48"	1193 kg	2,630 lb	⊙
Komatsu HPX	0.50 m ³	0.66 yd³	610 mm	24"	824 kg	1,817 lb	●
	0.67 m ³	0.88 yd³	762 mm	30"	939 kg	2,071 lb	●
	0.85 m ³	1.11 yd³	914 mm	36"	1061 kg	2,340 lb	○
	1.02 m ³	1.34 yd³	1067 mm	42"	1161 kg	2,559 lb	□
	1.20 m ³	1.57 yd³	1219 mm	48"	1293 kg	2,850 lb	⊙

● - Used with material weights up to 3,500 lb/yd³
Quarry/rock/high abrasion applications

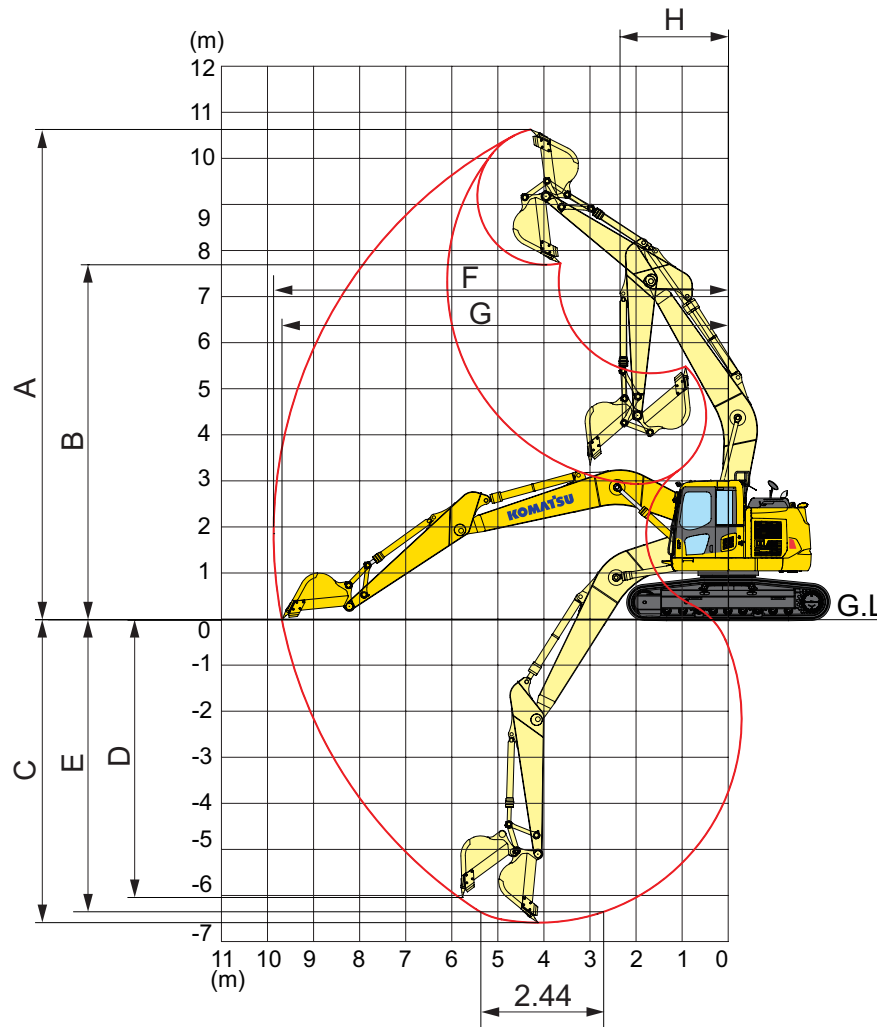
○ - Used with material weights up to 3,000 lb/yd³
Tough digging applications

□ - Used with material weights up to 2,500 lb/yd³
General construction

⊙ - Used with material weights up to 2,000 lb/yd³
Light materials applications



WORKING RANGE

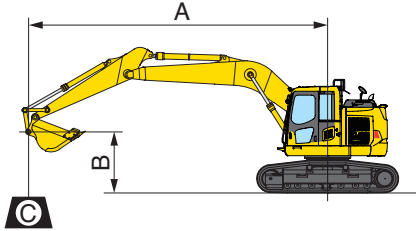


	Arm Length	2925 mm	9'7"
A	Max. digging height	10700 mm	35'1"
B	Max. dumping height	7825 mm	25'8"
C	Max. digging depth	6620 mm	21'9"
D	Max. vertical wall digging depth	5980 mm	19'7"
E	Max. digging depth for 8' level bottom	6370 mm	20'11"
F	Max. digging reach	9875 mm	32'5"
G	Max. digging reach at ground level	9700 mm	31'10"
H	Min. swing radius	2310 mm	7'7"
SAE rating	Bucket digging force at power max.	132 kN	
		13500 kg / 29,675 lb	
	Arm crowd force at power max.	103 kN	
		10500 kgf / 23,155 lb	
ISO rating	Bucket digging force at power max.	149 kN	
		15200 kg / 33,497 lb	
	Arm crowd force at power max.	108 kN	
		11000 kgf / 24,279 lb	

LIFT CAPACITIES



LIFTING CAPACITY WITH LIFTING MODE



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗: Rating at maximum reach

Conditions :

- 5700 mm **18' 1** one-piece boom
- Bucket: 0.8 m³ **1.05 yd³**
SAE heaped
- Bucket weight: 635 kg **1,400 lb**

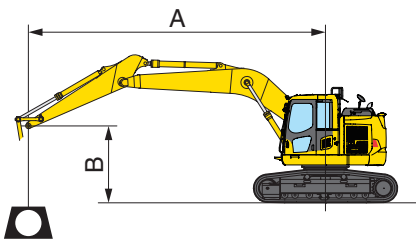
Arm: 2900 mm 9'7"

Shoes: 800 mm 31.5" triple grouser

Unit: kg lb

B	1.5 m 5'		3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		⊗ MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.1 m 20'							* 5200	* 5200			* 2800	* 2800
							* 11464	* 11464			* 6172	* 6172
4.6 m 15'					* 6500	* 6500	* 5900	5300	* 4850	3650	* 2800	* 2800
					* 14330	* 14330	* 13007	11684	* 10692	8046	* 6172	* 6172
3.0 m 10'			* 14050	* 14050	* 9250	7900	* 7200	5050	5800	3550	* 2950	2950
			* 30974	* 30974	* 20392	17416	* 15873	11133	12786	7826	* 6503	6503
1.5 m 5'			* 6850	* 6850	* 11750	7400	8000	4800	5650	3400	* 3250	2800
			* 15101	* 15101	* 25904	16314	17636	10582	12456	7495	* 7165	6172
0 m 0'	* 5200	* 5200	* 5200	* 5200	12450	7050	7800	4650	5550	3300	* 3800	2850
	* 11464	* 11464	* 11464	* 11464	27447	15542	17196	10251	12235	7275	* 8377	6283
-1.5 m -5'	* 9750	* 9750	* 9300	* 9300	12250	6950	7700	4550	5500	3300	* 4700	3100
	* 21495	* 21495	* 20502	* 20502	27006	15322	16975	10031	12125	7275	* 10361	6834
-3.0 m -10'			* 16250	14350	12300	6950	7700	4550			6200	3700
			* 35825	31636	27116	15322	16975	10031			13668	8157
-4.6 m -15'			* 16150	* 14600	* 11100	7150					* 8600	5350
			* 35604	* 32187	* 24471	15763					* 18959	11794

*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.



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗: Rating at maximum reach

Conditions :

- 5700 mm **18' 1** one-piece boom
- Bucket: none

Arm: 2900 mm 9'7"

Shoes: 800 mm 31.5" triple grouser

Unit: kg lb

B	1.5 m 5'		3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		⊗ MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
6.1 m 20'					* 6350	* 6350	* 6450	5900			* 3850	* 3850
					* 13999	* 13999	* 14219	13007			* 8487	* 8487
4.6 m 15'			* 9700	* 9700	* 7850	* 7850	* 7100	5800	* 5250	4200	* 3800	* 3800
			* 21384	* 21384	* 17306	* 17306	* 15652	12786	* 11574	9259	* 8377	* 8377
3.0 m 10'					* 10300	8300	* 8250	5600	6300	4100	* 3950	3600
					* 22707	18298	* 18188	12345	13889	9038	* 8708	7936
1.5 m 5'					* 12500	7850	8550	5350	6200	4000	* 4250	3500
					* 27557	17306	18849	11794	13668	8818	* 9369	7716
0 m 0'	* 7450	* 7450	* 7200	* 7200	12950	7600	8350	5200	6150	3900	* 4750	3600
	* 16424	* 16424	* 15873	* 15873	28549	16755	18408	11464	13558	8598	* 10471	7936
-1.5 m -5'	* 12100	* 12100	* 11650	* 11650	12850	7550	8300	5150	6100	3900	* 5650	3850
	* 26675	* 26675	* 25683	* 25683	28329	16644	18298	11353	13448	8598	* 12456	8487
-3.0 m -10'			* 17900	14900	12900	7600	8300	5150			7200	4550
			* 39462	32848	28439	16755	18298	11353			15873	10031
-4.6 m -15'			* 15500	15300	* 10800	7800					* 9150	6500
			* 34171	33730	* 23809	17196					* 20172	14330

*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.



STANDARD EQUIPMENT

- Alternator, 60 Ampere, 24V
- AM/FM radio
- Automatic engine warm-up system
- Automatic air conditioner/heater
- Auxiliary input (3.5 mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valve
- Converter, (2) x 12V
- Counterweight, 7220 kg **15,917 lb**
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA4D107E-2
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-cleaner 10 micron
- Hydraulic track adjusters
- KOMTRAX®
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1
- Pattern change valve (ISO to BH control)
- PPC hydraulic control system
- Pump/engine room partition cover
- Radiator and oil cooler dustproof net
- Rear reflectors
- Rearview monitoring system (1 camera)
- Revolving frame undercovers
- ROPS cab
- Seat belt, retractable, 76 mm **3"**
- Seat belt indicator
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 600 mm **24"**
- Skylight
- Slip resistant foot plates
- Starter motor, 5.5kW
- Suction fan
- Thermal and fan guards
- Track frame undercover
- Travel alarm
- Working lights, 2 cab
- Working mode selection system



OPTIONAL EQUIPMENT

- Arms
 - 2925 mm **9'7"** arm
 - 2925 mm **9'7"** arm with piping
- Boom
 - 5700 mm **18'8"** HD boom
 - 5700 mm **18'8"** HD boom with piping
- Cab guards
 - Full front guard, OPG Level 1
 - Full front guard, OPG Level 2
 - Bolt-on top guard, OPG Level 2
- Hydraulic control unit
 - 1 additional actuator
- Rain visor for cab
- Shoes
 - 600 mm **24"** road liner
 - 600 mm **24"** triple grouser
 - 700 mm **28"** triple grouser
 - 800 mm **31.5"** triple grouser
- Sun visor for cab



ATTACHMENT OPTIONS

- Hydraulic Quick couplers
- Hydraulic kits, field installed

For a complete list of available attachments, please contact your local Komatsu distributor.



Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.