

BID SUBMITTAL FORM
Alabama County Joint Bid Program
Heavy Equipment – Bid Item: TRACK-MOUNTED HYDRAULIC EXCAVATOR
Option B-3

Company Name: Tractor & Equipment Company
Address: P.O. Box 12326
Birmingham, AL 35212
Bid Submitted by: Andre McMillan Jr.
(Name of company representative)
Title: V.P. E-mail address: amcmillan@TEC1943.com
Phone: 205-591-2131 Fax: 205-591-8321

By submitting this bid, we agree:

, Initials

The equipment model number identified below meets the bid specs for this bid item

Am

That the bid price will be honored for all counties for the period from Jan. 1, 2022 to Dec. 31, 2022.

Am

The equipment will be delivered at the bid price to all counties participating in the joint bid program

Am

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program

Am

The bid is accompanied by a current catalog or model specification document for the model number identified below

Am

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications

Am

The bid includes the e-verify documentation required by Alabama law

Am

If awarded the bid, a performance bond will be provided upon request

Am

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the Standard Machine

Am

TRACK-MOUNTED HYDRAULIC EXCAVATOR Option B-3

Total Bid Price for Standard Machine: \$ 212,200⁰⁰
(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) *

Freight Preparation and Delivery: \$ 4,500⁰⁰
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 340,317⁰⁰

Equipment Model #: Komatsu PC210LC-11

Description: Track mounted excavator Option B.3

Signature of company representative submitting bid: _____

Title: _____

* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

* Bid includes 3yr / 2,000hr Komatsu Care.

BID SUBMITTAL FORM: OPTION COST SHEET
TRACK-MOUNTED HYDRAULIC EXCAVATOR
Option B-3

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine*

AN

The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) with **any available Options** for the Standard Machine

AC

Equipment Model #: Komatsu PC210LC-11

Description: Track mounted excavator Option B-3

Signature of company representative submitting bid: _____

Ruby M. May
J.P.

Title: _____

***Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

BID SPECIFICATIONS FOR TRACK-MOUNTED HYDRAULIC EXCAVATOR Option B-3

GENERAL

These specifications shall be construed as the minimum acceptable standards for a track mounted hydraulic excavator with long undercarriage. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturers' equipment. The excavator must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

Use of specific names and numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of the counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the bid submittal form included in the invitation to bid package. All written warranties to be submitted shall be attached to the bid submittal form.

BID PRICE

The price bid shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual, one [1] repair manual, and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment. If any replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs to its machine.

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes ✓ No

Page#

Or Attachment ✓

WEIGHT

Minimum 53,000 lbs.

Yes ☒ No ☐
Page # 16

Six (6) cylinders, minimum 408 cubic inch diesel engine with minimum 165 net flywheel horsepower.

Yes ☒ No ☐
Page # 16

Engine must be designed and built by the machine manufacturer.

Yes ☒ No ☐
Page # 16

STARTING SYSTEM

Shall be equipped with a 24-volt electrical system.

Yes ☒ No ☐
Page # 20

Shall be equipped with a 12-volt converter capable of powering a two-way radio.

Yes ☒ No ☐
Page # 8

UNDERCARRIAGE

Track length shall be minimum 14,5'.

Yes ☒ No ☐
Page # 17

Track shoe width shall be minimum 31".

Yes ☒ No ☐
Page # 16

Minimum eight (8) track rollers per side.

Yes ☒ No ☐
Page # 16

Minimum two (2) carrier rollers per side.

Yes ☒ No ☐
Page # 16

CAPACITIES

Fuel Tank Capacity – 105-gallon minimum

Yes ☒ No ☐
Page # 16

Hydraulic Tank Capacity – 34-gallon minimum

Yes ☒ No ☐
Page # 16

Engine Coolant – 7.5-gallon minimum

Yes ☒ No ☐
Page # 16

BOOM AND STICK

One-piece boom with minimum 18' length

Yes ☒ No ☐
Page # 16

Stick shall be a minimum 9.5' long

Yes ☒ No ☐
Page # 18/16

DIMENSIONS

Reach at ground level – 31' minimum

Yes ☒ No ☐
Page # 18

Bucket breakout force – minimum 29,500 lbs.

Yes ☒ No ☐
Page # 14

Stick digging force – minimum 23,000 lbs.

Yes ☒ No ☐
Page # 18

HYDRAULICS

Hydraulic pump output shall be a minimum of 125 GPM

Yes ☒ No ☐
Page # 16

CAB

Enclosed ROPS cab: Heater

Yes ☒ No ☐
Page # 20

Factory installed air conditioning

Yes ☒ No ☐
Page # 20

Defroster

Yes ☒ No ☐
Page # 20

Bucket:

Standard with no bucket. Buckets will be considered optional attachments.

KOMATSU®

PC210LC-11

Tier 4 Final Engine

HYDRAULIC EXCAVATOR



Photos may include optional equipment

NET HORSEPOWER

165 HP @ 2000 rpm

123 kW @ 2000 rpm

OPERATING WEIGHT

51,397–53,882 lb

23313–24440 kg

BUCKET CAPACITY

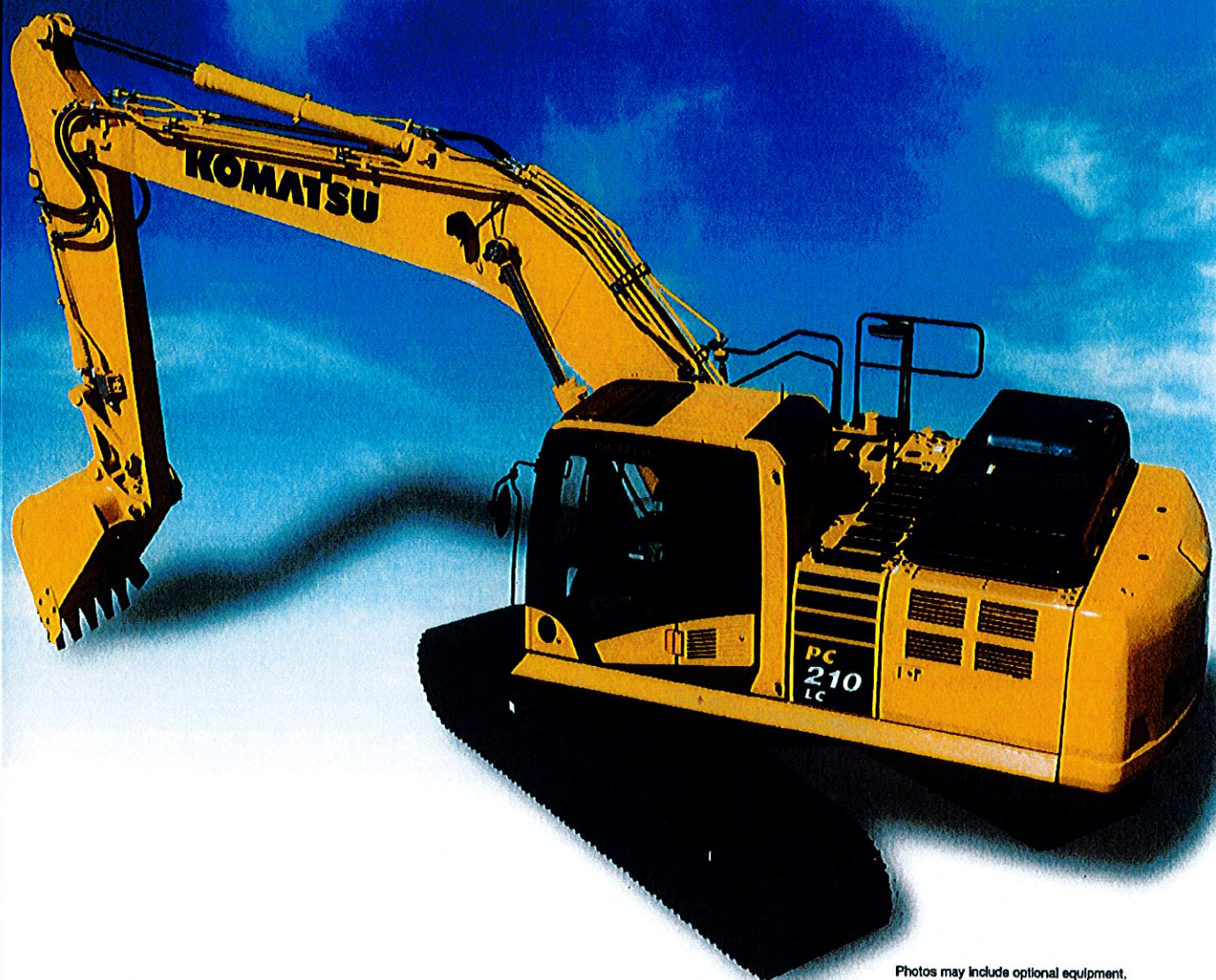
0.66–1.57 yd³

0.50–1.20 m³

PC210LC

WALK-AROUND

PC210LG-11



Photos may include optional equipment.

NET HORSEPOWER

165 HP @ 2000 rpm
123 kW @ 2000 rpm

OPERATING WEIGHT

51,397–53,882 lb
23313–24440 kg

BUCKET CAPACITY

0.66–1.57 yd³
0.50–1.20 m³



PERFORMANCE & EFFICIENCY

Enhanced Power Mode

Enhanced engine and hydraulic pump control logic improves multi-function speed for up to 4% improved productivity.

Komatsu Harmony

All major components are designed and manufactured by Komatsu. A fully integrated design produces an efficient, reliable system.

A powerful Komatsu SAA6D107E-3 engine provides a net output of 123 kW 165 HP. This engine is EPA Tier 4 Final emissions certified.

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

Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) system reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Komatsu's Closed-center Load Sensing System (CLSS) 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.

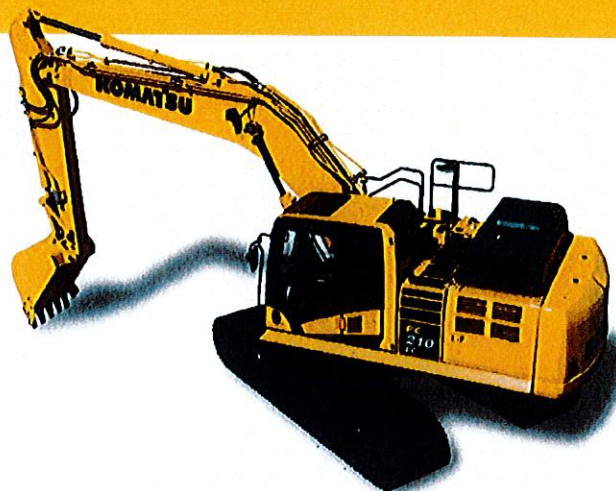
The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription fees. Using the latest wireless technology, KOMTRAX® transmits valuable information such as location, utilization, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. KOMTRAX® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

Large LCD color monitor panel:

- 7" high resolution screen
- Provides "Ecology Guidance" for fuel efficient operation
- Enhanced attachment control

Rearview monitoring system (standard)

Equipment Management Monitoring System (EMMS) continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.



Triple labyrinth final drive cover helps prevent mud packing.

Enhanced working environment

- High back, heated air suspension operator seat with new adjustable arm rests
- Integrated ROPS cab design
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard
- Aux jack and (2) 12V power outlets

Wide access service doors provide easy access for ground level maintenance.

Handrails (standard) on both sides provide more 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

Swing out cooler design provides easy access to service and clean the cooler assembly.

Komatsu Auto Idle Shutdown helps reduce idle time and operating costs.

Operator Identification System can track machine operation for more than 100 operators.

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

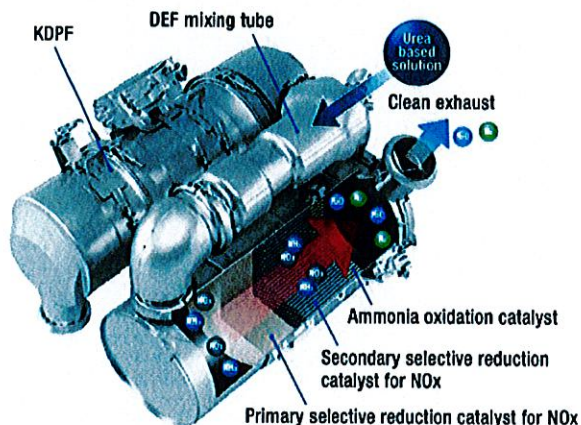
New Tier 4 Final Engine

The Komatsu SAA6D107E-3 engine is EPA Tier 4 Final emissions certified and provides exceptional performance and efficiency. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogen oxides (NOx) by more than 80% when compared to Tier 4 interim 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.

Technologies Applied to New Engine

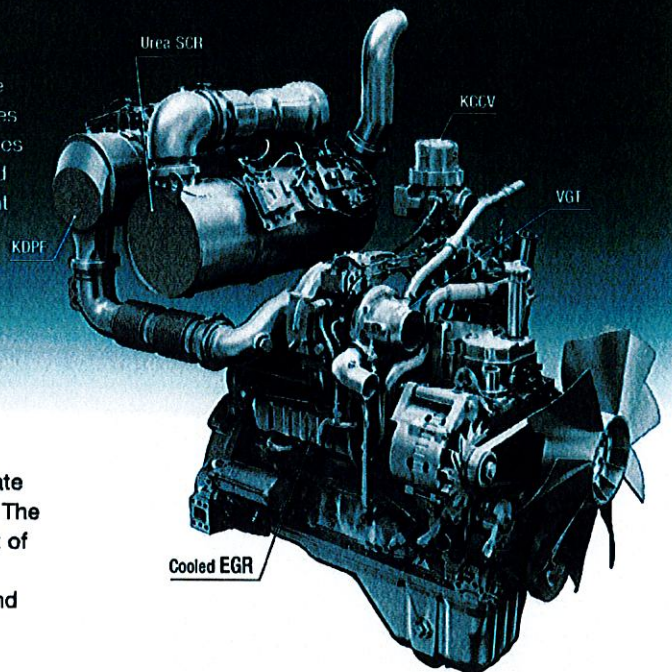
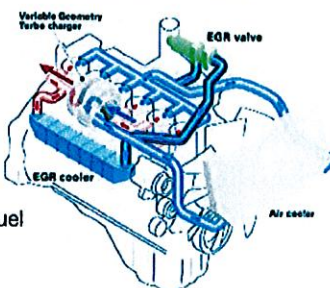
Heavy-duty aftertreatment system

This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H₂O) and nitrogen gas (N₂).



Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system achieves a dynamic reduction of NOx, while helping maintain T4 interim fuel consumption rates.



Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment in all conditions of use. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

Variable Geometry Turbocharger (VGT) system

The VGT system features proven Komatsu designed hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.

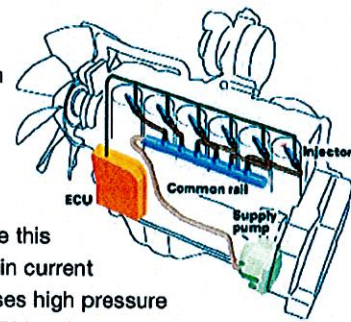


Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The countdown to engine shutdown can be easily programmed from 5 to 60 minutes.

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

The system is designed to achieve an optimal injection of high-pressure fuel by means of computerized control, providing close to complete combustion to reduce PM emissions. While this technology is already used in current engines, the new system uses high pressure injection, thereby reducing PM emissions over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced soot levels.

**Enhanced Productivity**

The PC 210LC-11's P Mode provides improved performance in demanding applications.

Productivity

Up to 4% increase

(compared to the PC210LC-10 in standard P Mode)

P mode (90 degree swing truck loading)



PERFORMANCE FEATURES

Increased Work Efficiency

Powerful digging force

Functional digging force can be increased with use of the one-touch Power Max. function (up to 8.5 seconds of operation).

Maximum arm crowd force (ISO)

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

Maximum bucket digging force (ISO)

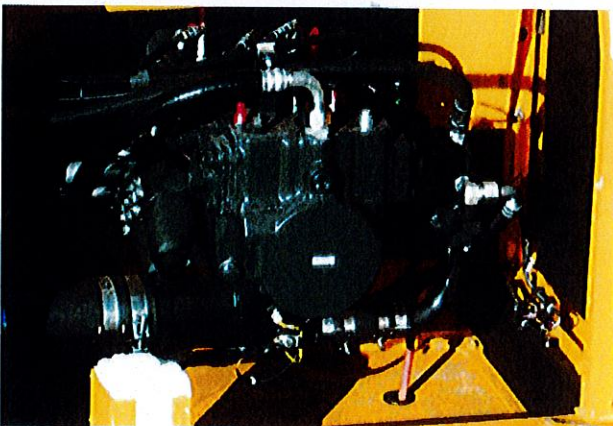
138 kN(14.1t) ➔ 149 kN(15.2t) 8% UP
(with Power Max.)

Measured with Power Max. function, 3045 mm arm and ISO rating



Large Displacement High Efficiency Pump

Large displacement hydraulic implement pumps provide high flow output at lower engine RPM as well as operation at the most efficient engine speed.

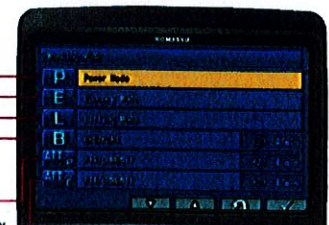


Working Mode Selection

The PC210LC-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). An enhanced Power Mode provides improved hydraulic power and faster cycle times for improved performance in demanding applications. Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC210LC-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

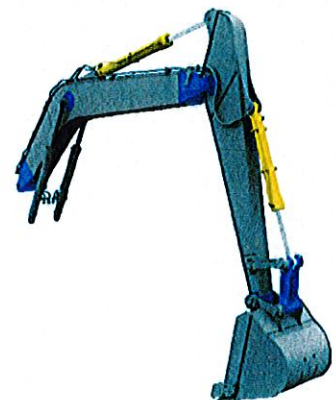
Working Mode	Application	Advantage
P	Power Mode	•Maximum production, power & multifunction
E	Economy Mode	•Good cycle times with reduced fuel consumption
L	Lifting Mode/ Fine Control	•Increased lifting power & fine control
B	Breaker Mode	•One way flow for hydraulic breaker operation
ATT/P	Attachment Power Mode	•Two way flow with maximum power
ATT/E	Attachment Economy Mode	•Two way flow with most efficient fuel economy

- P** Performance priority
P mode
- E** Fuel savings priority
E mode
- L** Lifting operation
L mode
- B** One way flow breaker operation
B mode
- ATT/P** Two way flow attachment - Power
ATT/P mode
- ATT/E** Two way flow attachment - Economy
ATT/E mode



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. A standard HD boom design provides increased strength and reliability.

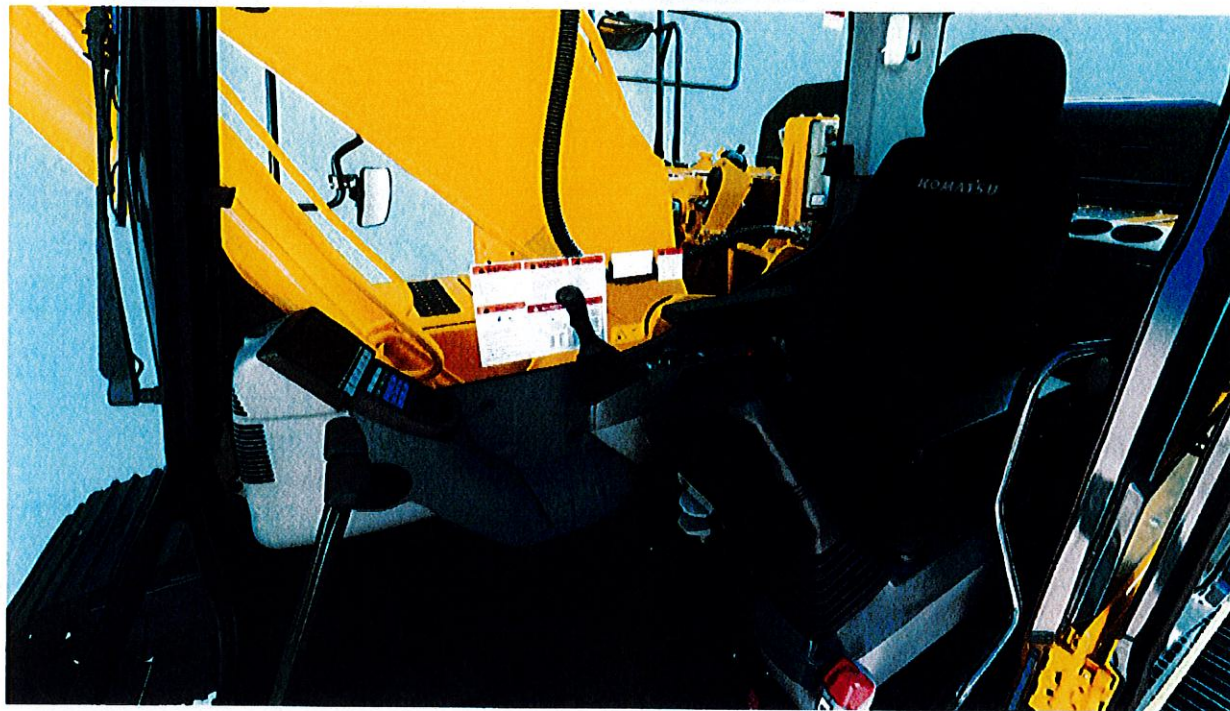


PC210LC-11

WORKING ENVIRONMENT



WORKING ENVIRONMENT



Comfortable Working Space

Wide spacious cab

The wide spacious cab includes a heated air suspension seat with reclining backrest. The seat height and position are easily adjusted using a pull-up lever. The armrest position is easily adjusted together with the console.

Arm rest with simple height adjustment function

A knob and plunger on the armrests allows easy height adjustment without the use of tools.



Low vibration with cab damper mounting

Automatic climate control

Pressurized cab

Auxiliary input jack

Connecting a regular audio device to the auxiliary jack allows the operator to hear the sound from the stereo speakers installed in the cab.



Standard Equipment

Sliding window glass (left side)



Radio, ashtray



Remote intermittent wiper with windshield washer



Cigarette lighter



Opening & closing skylight



Magazine box & cup holder



Defroster (conform to the ISO standard)



One-touch storable front window lower glass



LARGE HIGH RESOLUTION LCD MONITOR

New Monitor Panel Interface Design

An updated large high resolution LCD color monitor enables accurate and smooth work. The interface has been redesigned to display key machine information in a new user friendly interface. A rear view camera and a DEF level gauge display have been added to the default main screen. The interface has a function that enables the main screen mode to be switched, thus enabling the optimum screen information for the particular work situation to be displayed.

Indicators

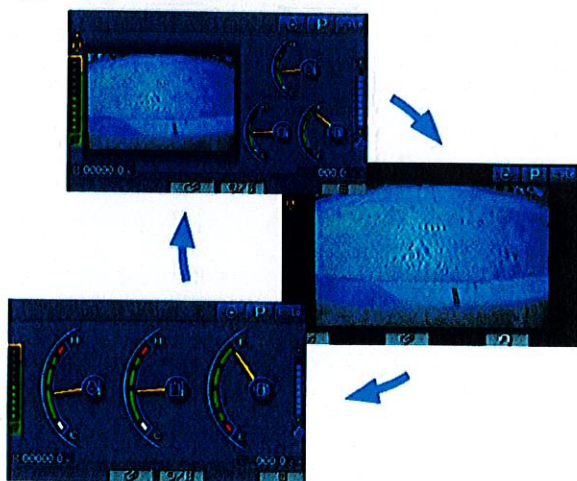
- | | |
|------------------------------------|-----------------------------|
| 1 Auto-decelerator | 8 Fuel gauge |
| 2 Working mode | 9 DEF level gauge |
| 3 Travel speed | 10 Service meter, clock |
| 4 Ecology gauge | 11 Fuel consumption gauge |
| 5 Camera display | 12 Guidance icon |
| 6 Engine coolant temperature gauge | 13 Function switches |
| 7 Hydraulic oil temperature gauge | 14 Camera direction display |
| | 15 DEF level caution lamp |

Basic operation switches

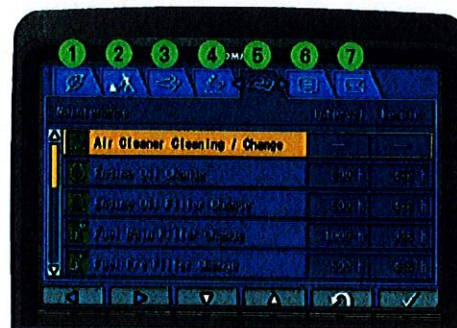
- | | |
|-------------------------|-------------------------|
| 1 Auto-decelerator | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper |
| 3 Travel speed selector | 6 Window washer |
| | 7 Auto climate controls |

Switchable Display Modes

The main screen display mode can be changed by pressing the F3 key.


Visual user menu

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 easily.



- | | |
|---------------------------------------|--------------------|
| 1 Energy saving guidance | 2 Machine settings |
| 3 Aftertreatment devices regeneration | 4 SCR information |
| 5 Maintenance | 6 Monitor setting |
| | 7 Message check |

WORKING ENVIRONMENT

Support Efficiency Improvement

Ecology guidance

While the machine is operating, ecology guidance pops up on the monitor screen to notify the operator of the status of the machine in real time.

Ecology gauge & fuel consumption gauge

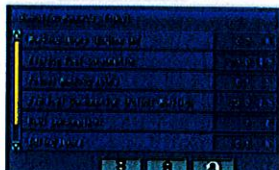
The monitor screen is provided with an ecology gauge and also a fuel consumption gauge which is displayed continuously. In addition, the operator can set any desired target value of fuel consumption (within the range of the green display), enabling the machine to be operated with better fuel economy.



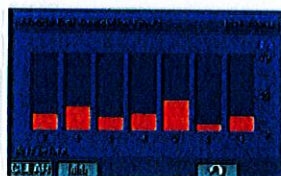
Ecology gauge Fuel consumption gauge
Ecology guidance

Operation record, fuel consumption history, and ecology guidance record

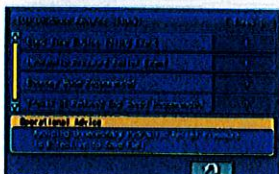
The ecology guidance menu enables the operator to check the operation record, fuel consumption history and ecology guidance record from the ecology guidance menu, with a single touch, thus assisting operators with reducing total fuel consumption.



Operation record



Fuel consumption history



Ecology guidance record

Operator Identification Function

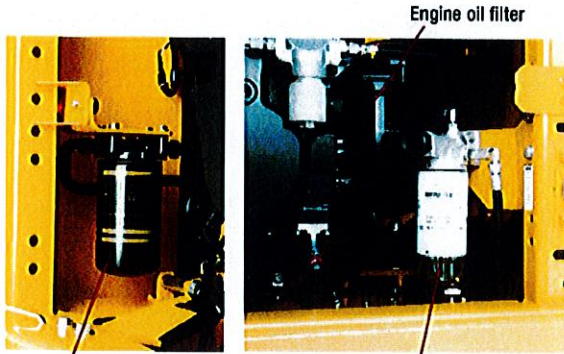
An operator identification ID can be set up for each operator, and used to manage operation information of individual machines using KOMTRAX data. Data sent from KOMTRAX can be used to analyze operation status by operator as well as by machine.



MAINTENANCE FEATURES

Centralized engine check points

Locations of the engine oil check and filters are integrated into one side to allow easy maintenance and service.

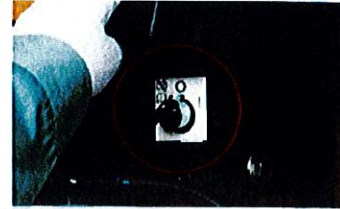


High efficiency fuel filter

Fuel pre-filter (with water separator)

Battery disconnect switch

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



Easy to access air conditioner filter

Washable cab floormat

Sloping track frame

Utility space

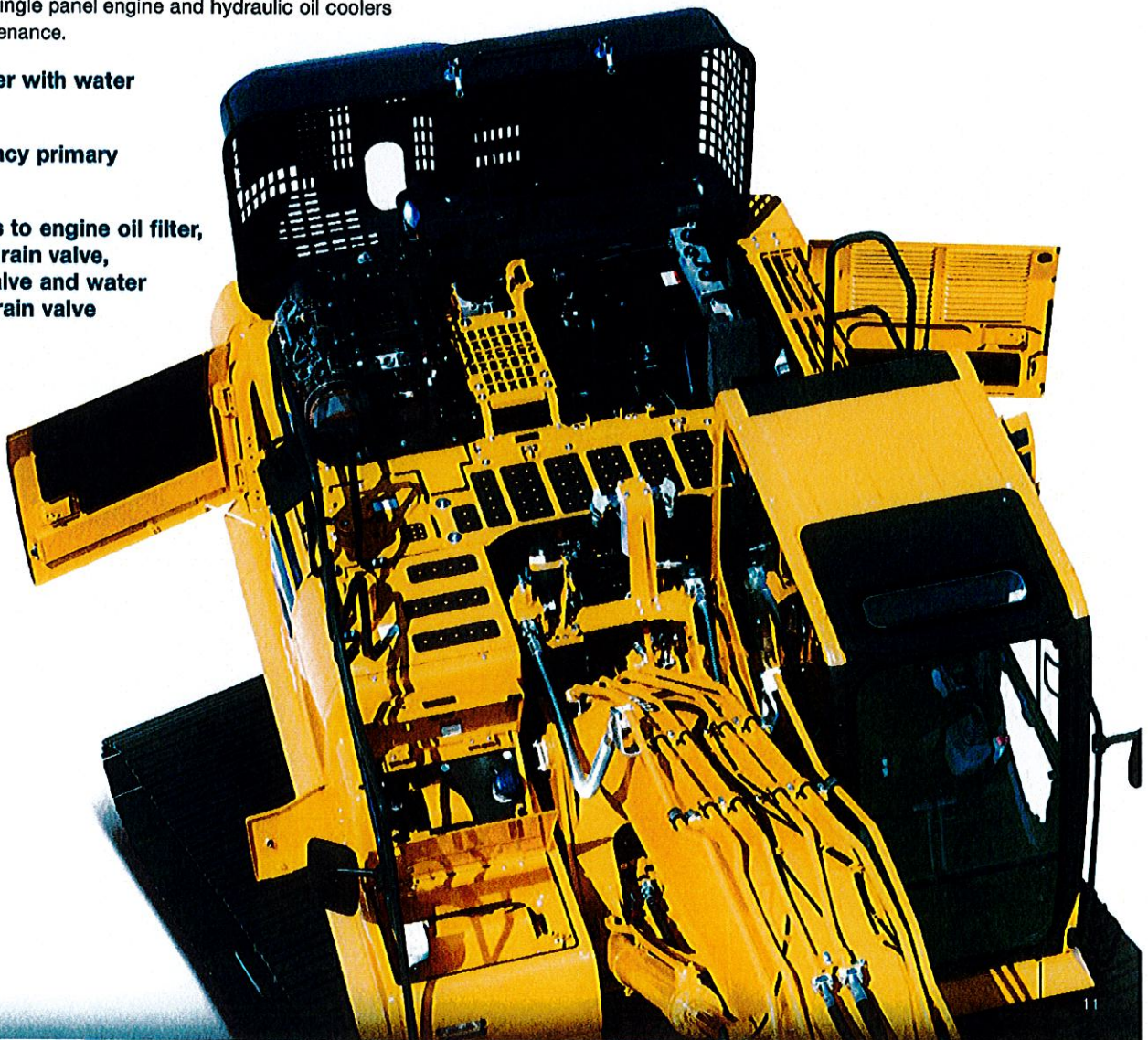
Easy cleaning of coolers

Side by side single panel engine and hydraulic oil coolers simplify maintenance.

Fuel pre-filter with water separator

High efficiency primary fuel filter

Easy access to engine oil filter, engine oil, drain valve, fuel drain valve and water separator drain valve



MAINTENANCE FEATURES

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.

Engine oil & Engine oil filter	every 500 hours
Hydraulic oil	every 5000 hours
Hydraulic oil filter	every 1000 hours
DEF pump filter	every 2000 hours



Hydraulic oil filter
(Ecology-white element)

Large capacity air cleaner

Large capacity air cleaner is comparable to that of larger machines. The larger air cleaner can extend air cleaner life during long-term operation and helps prevent early clogging, and resulting power loss. A radial seal design is used for reliability.

Diesel Exhaust Fluid (DEF) tank

A large tank volume extends operating time before refilling and is installed on the right front platform for easy access. DEF tank and pump are separated for improved service access.

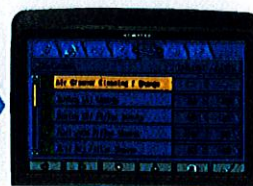


Maintenance Information

"Maintenance time caution lamp" display

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

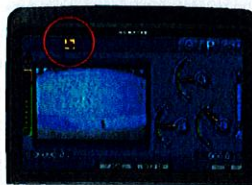
*: The setting can be changed within the range between 10 and 200 hours.



Maintenance screen

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.



Soot level indicator

Aftertreatment device regeneration screen

Supports the DEF level and refill timing

The DEF level gauge is displayed continuously on the right side of the monitor screen. In addition, when DEF level is low, DEF low level guidance messages appear in pop up displays to inform the operator in real time.



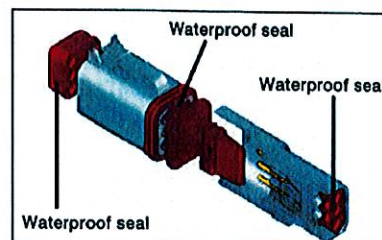
DEF level gauge



DEF low level guidance

DT-type connectors

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



GENERAL FEATURES

ROPS CAB STRUCTURE

ROPS Cab (ISO 12117-2)

The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. It also satisfies the requirements for Level 1 Operator Protective Guard (OPG) and top guard (ISO 10262).



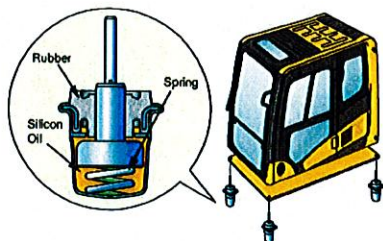
Rear View Monitoring System

A new rear view monitoring system display has a rear view camera image that is continuously displayed together with the gauges and important vehicle information. This enables the operator to carry out work while easily checking the surrounding area.



Low Vibration with Viscous Cab Mounts

The PC210LC-11 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.



General Features

Secondary engine shut down switch at base of seat to shutdown the engine.



Left and right side handrails



Seat belt caution indicator



Lock lever

Seat belt retractable

Tempered & tinted glass

Large mirrors

Slip-resistant plates

Thermal and fan guards

Pump/engine room partition

Travel alarm

Large cab entrance step



KOMATSU PARTS & SERVICE SUPPORT



KOMATSU CARE Program Includes:

*The PC210LC-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point Inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary KDPF Exchange

The PC210LC-11 comes standard with 2 Complimentary KDPF Exchange Units for the first 5 Years (unlimited hours) Complimentary KDPF Exchange Units are provided at: The suggested KDPF Exchange Units Service Intervals of 4,500 hours and 9,000 hours during the first 5 years. End User must have authorized Komatsu distributor perform the removal and installation of the KDPF.

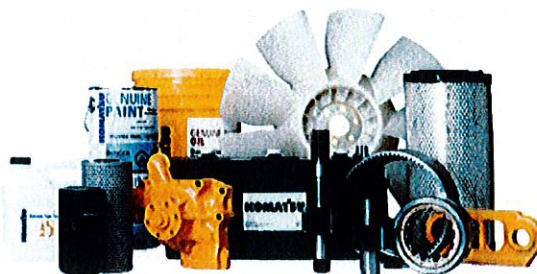
Complimentary SCR System Maintenance

The PC210LC-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel exhaust fluid (DEF) system during the first 5 years—no hour limit—including: Factory recommended DEF tank flush and strainer cleaning at 4,500 hours and 9,000 hours.

Interval PM	500	1000	1500	2000
KOWA SAMPLING – (Engine, Hydraulics, Swing Circle, L & R Final Drives)	✓	✓	✓	✓
LUBRICATE MACHINE	✓	✓	✓	✓
LUBRICATE SWING CIRCLE	✓	✓	✓	✓
CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY	✓	✓	✓	✓
CHANGE ENGINE OIL	✓	✓	✓	✓
REPLACE ENGINE OIL FILTER	✓	✓	✓	✓
REPLACE FUEL PRE-FILTER	✓	✓	✓	✓
REPLACE AC FRESH & RECIRC AIR FILTERS	✓	✓	✓	✓
CLEAN AIR CLEANER ELEMENT	✓	✓	✓	✓
DRAIN SEDIMENT FROM FUEL TANK	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	✓	✓	✓	✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT		✓		✓
REPLACE DEF TANK BREATHER ELEMENT		✓		✓
REPLACE FUEL MAIN FILTER		✓		✓
REPLACE HYDRAULIC OIL FILTER ELEMENT		✓		✓
CHANGE SWING MACHINERY OIL		✓		✓
CHECK DAMPER CASE OIL LEVEL, ADD WHEN NECESSARY		✓		✓
CHANGE FINAL DRIVE OIL				✓
CLEAN HYDRAULIC TANK STRAINER				✓
REPLACE KCCV FILTER ELEMENT				✓
REPLACE DEF PUMP FILTER				✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓
2 KDPF Exchanges at 4,500 Hrs and 9,000 Hrs.				
2 SCR System Maintenance Services at 4,500 Hrs. and 9000 Hrs.				

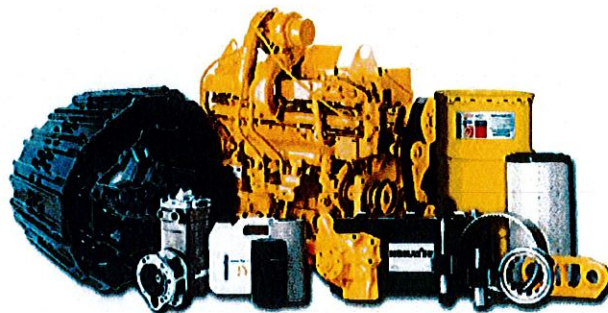
Komatsu CARE® – Extended Coverage

- 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

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2017 Komatsu America Corp.

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 **lowering owning and operating cost**

✓ WHEN

- Knowing when machines are **running or idling** can help improve 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 is due** 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

✓ 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

✓ WHO

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



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model..... Komatsu SAA6D107E-3*
 Type.....Water-cooled, 4-cycle, direct injection
 Aspiration.....Komatsu Variable Geometry
 Turbocharged, aftercooled, cooled EGR
 Number of cylinders..... 6
 Bore.....107 mm **4.21"**
 Stroke.....124 mm **4.88"**
 Piston displacement.....6.69 ltr **408 in³**
 Horsepower
 ISO 9249 / SAE J1349.....Net 122.8 kW **165 HP**
 Fan at maximum speed..... Net 118.6 kW **159 HP**
 Rated rpm.....2000 rpm
 Fan drive method for cooling radiator.....Mechanical with
 viscous fan clutch
 Governor.....All-speed control, electronic
 *EPA Tier 4 Final emissions certified



HYDRAULICS

Type.....HydrauMind (Hydraulic Mechanical Intelligence)
 system, closed-center system with load sensing valves and
 pressure compensated valves
 Number of selectable working modes..... 6
 Main pump:
 Type.....Variable displacement piston type
 Pumps for.....Boom, arm, bucket, swing, and travel circuits
 Maximum flow..... 475 ltr/min **125.5 gal/min**
 Supply for control circuit.....Self-reducing valve
 Hydraulic motors:
 Travel.....2 x axial piston motors with parking brake
 Swing.....1 x axial piston motor with swing holding brake
 Relief valve setting:
 Implement circuits..... 37.3 MPa 380 kg/cm² **5,400 psi**
 Travel circuit..... 37.3 MPa 380 kg/cm² **5,400 psi**
 Swing circuit..... 28.9 MPa 295 kg/cm² **4,190 psi**
 Pilot circuit..... 3.2 MPa 33 kg/cm² **470 psi**
 Hydraulic cylinders:
 (Number of cylinders – bore x stroke x rod diameter)
 Boom .. 2-130 mm x 1334 mm x 90 mm **5.1" x 52.5" x 3.5"**
 Arm1-135 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.....Hydrostatic
 Maximum drawbar pull.....202 kN 20570 kg **45,349 lb**
 Gradeability.....70%, 35°
 Maximum travel speed: High.....5.5 km/h **3.4 mph**
 (Auto-Shift) Mid.....4.1 km/h **2.5 mph**
 (Auto-Shift) Low.....3.0 km/h **1.9 mph**
 Service brake.....Hydraulic lock
 Parking brake.....Mechanical disc brake



SWING SYSTEM

Drive method.....Hydrostatic
 Swing reduction.....Planetary gear
 Swing circle lubrication.....Grease-bathed
 Service brake.....Hydraulic lock
 Holding brake/Swing lock.....Mechanical disc brake
 Swing speed.....12.4 rpm
 Swing torque.....6900 kg*m **49,907 ft lbs**



UNDERCARRIAGE

Center frame.....X-frame
 Track frame.....Box-section
 Seal of track.....Sealed track
 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

Fuel tank..... 400 ltr **105.7 U.S. gal**
 Coolant..... 30.7 ltr **8.1 U.S. gal**
 Engine..... 23.1 ltr **6.1 U.S. gal**
 Final drive, each side.....5.0 ltr **1.3 U.S. gal**
 Swing drive.....6.5 ltr **1.7 U.S. gal**
 Hydraulic tank..... 132 ltr **34.9 U.S. gal**
 Hydraulic system..... 234 ltr **61.8 U.S. gal**
 DEF tank..... 23.1 ltr **6.1 U.S. gal**



SOUND PERFORMANCE

Exterior – ISO 6395.....100 dB(A)
 Operator – ISO 6396..... 66 dB(A)



OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 5700 mm **18'8"** one-piece boom,
 2925 mm **9'7"** arm, SAE heaped 1.19 m³ **1.57 yd³** bucket,
 rated capacity of lubricants, coolant, full fuel tank, operator,
 and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground Pressure ISO 16754
700 mm	24160 kg	0.47 kg/cm²
28"	53,265 lb	6.7 psi
800 mm	24440 kg	0.42 kg/cm²
31.5"	53,882 lb	5.9 psi

Component Weights

Arm including bucket cylinder and linkage

2900 mm **9'7"** HD arm assembly.....1136 kg **2,505 lb**
 2900 mm **9'7"** HD arm assembly w/piping..... 1200 kg **2,646 lb**

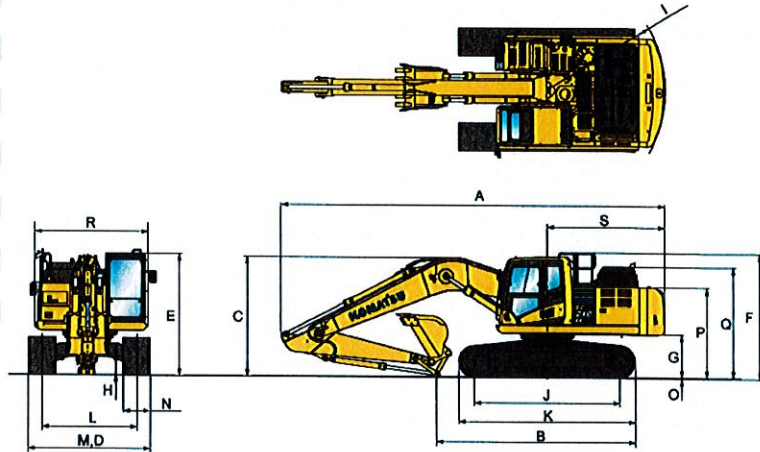
One piece boom including arm cylinder

5700 mm **18'8"** boom assembly..... 1885 kg **4,156 lb**
 5700 mm **18'8"** HD boom assembly w/piping.. 1953 kg **4,306 lb**
 Boom cylinders x 2..... 205 kg **452 lb**
 Counterweight (standard)..... 4370 kg **9,634 lb**
 1.19 m³ **1.57 yd³** bucket - 48" width..... 949 kg **2,092 lb**


DIMENSIONS

	Arm Length	2925 mm	9'7"
A	Overall length	9705 mm	31'10"
B	Length on ground (transport)	5000 mm	16'5"
C	Overall height (to top of boom)*	2995 mm	9'10"
D	Overall width	3080 mm	10'1"
E	Overall height (to top of cab)*	3045 mm	10'0"
F	Overall height (to top of handrail)*	3135 mm	10'3"
G	Ground clearance, counterweight	1085 mm	3'7"
H	Ground clearance, minimum	440 mm	1'5"
I	Tail swing radius	3020 mm	9'11"
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	3080 mm	10'1"
N	Shoe width	700 mm	28"
O	Grouser height	26 mm	1"
P	Machine height to top of counterweight	2250 mm	7'5"
Q	Machine height to top of engine cover	2765 mm	9'1"
R	Machine upper width	2850 mm	9'4"
S	Distance, swing center to rear end	2990 mm	9'10"

* : Including grouser height


BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket						5.7 m (18'8") Boom
	Capacity		Width		Weight		2.9 m (9'7")
Komatsu TL	0.50 m ³	0.66 yd ³	610 mm	24"	605 kg	1,334 lb	●
	0.67 m ³	0.88 yd ³	762 mm	30"	689 kg	1,518 lb	●
	0.85 m ³	1.11 yd ³	914 mm	36"	780 kg	1,719 lb	●
	1.02 m ³	1.34 yd ³	1067 mm	42"	857 kg	1,890 lb	○
	1.20 m ³	1.57 yd ³	1219 mm	48"	949 kg	2,092 lb	□
Komatsu HP	0.50 m ³	0.66 yd ³	610 mm	24"	652 kg	1,437 lb	●
	0.67 m ³	0.88 yd ³	762 mm	30"	763 kg	1,681 lb	●
	0.85 m ³	1.11 yd ³	914 mm	36"	868 kg	1,913 lb	●
	1.02 m ³	1.34 yd ³	1067 mm	42"	950 kg	2,098 lb	○
	1.20 m ³	1.57 yd ³	1219 mm	48"	1066 kg	2,349 lb	○
Komatsu HPS	0.50 m ³	0.66 yd ³	610 mm	24"	724 kg	1,597 lb	●
	0.67 m ³	0.88 yd ³	762 mm	30"	840 kg	1,851 lb	●
	0.85 m ³	1.11 yd ³	914 mm	36"	962 kg	2,120 lb	●
	1.02 m ³	1.34 yd ³	1067 mm	42"	1061 kg	2,339 lb	□
	1.20 m ³	1.57 yd ³	1219 mm	48"	1193 kg	2,630 lb	○
Komatsu HPX	0.50 m ³	0.66 yd ³	610 mm	24"	824 kg	1,817 lb	●
	0.67 m ³	0.88 yd ³	762 mm	30"	939 kg	2,071 lb	●
	0.85 m ³	1.11 yd ³	914 mm	36"	1061 kg	2,340 lb	○
	1.02 m ³	1.34 yd ³	1067 mm	42"	1161 kg	2,559 lb	□
	1.20 m ³	1.57 yd ³	1219 mm	48"	1293 kg	2,850 lb	○

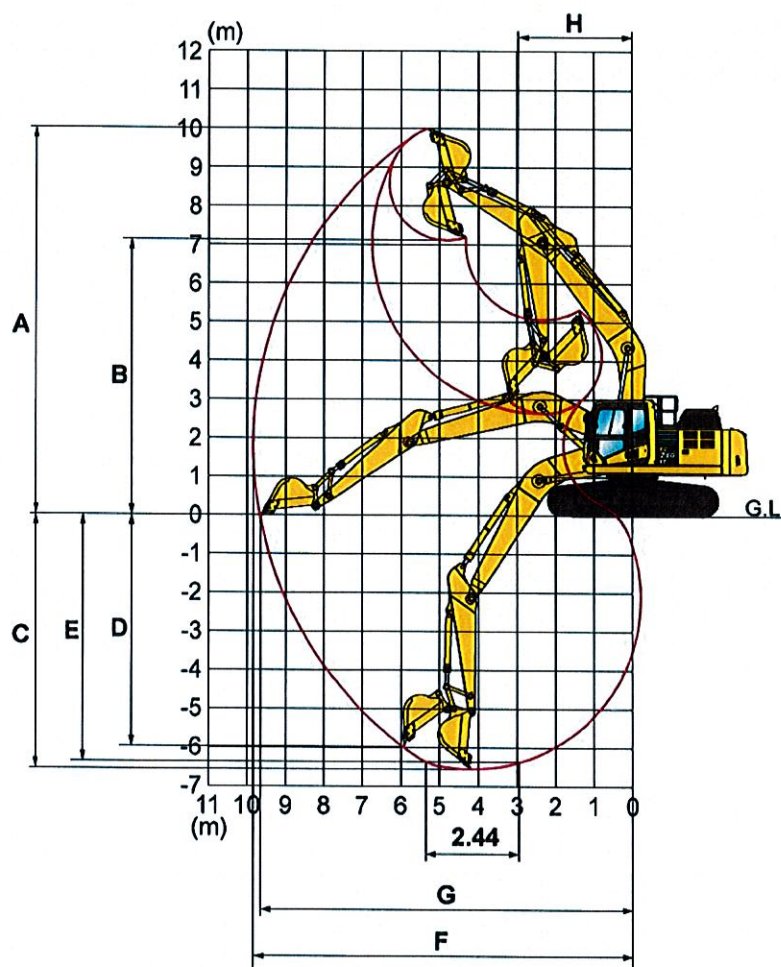
● - Used with material weights up to 3,500 lb/yd³ - Quarry/rock/high abrasion applications
 □ - Used with material weights up to 2,500 lb/yd³ - General construction

○ - Used with material weights up to 3,000 lb/yd³ - Tough digging applications
 ○ - Used with material weights up to 2,000 lb/yd³ - Light materials applications
 X - Not useable

SPECIFICATIONS



WORKING RANGE

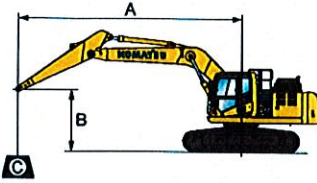


Arm Length		2925 mm	9'7"
A	Max. digging height	10000 mm	32'10"
B	Max. dumping height	7110 mm	23'4"
C	Max. digging depth	6620 mm	21'9"
D	Max. vertical wall digging depth	5980 mm	19'7"
E	Max. digging depth for 8' level bottom	6370 mm	20'11"
F	Max. digging reach	9875 mm	32'5"
G	Max. digging reach at ground level	9700 mm	31'10"
H	Min. swing radius	3040 mm	10' 0"
SAE rating	Bucket digging force at power max.	132 kN 13500 kg / 29,762 lb	
	Arm crowd force at power max.	103 kN 10500 kg / 23,149 lb	
ISO rating	Bucket digging force at power max.	149 kN 15200 kg / 33,510 lb	
	Arm crowd force at power max.	108 kN 11000 kg / 24,251 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:

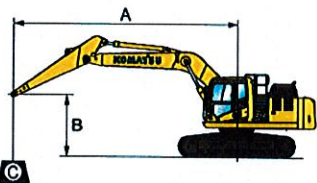
- 5700 mm 18' 8" one-piece boom
- Counterweight: 4370 kg 9,634 lb
- Bucket: None
- Lifting mode: On

Arm: 2900 mm 9'7" HD		Bucket: None				Shoes: 700 mm 28"				Unit: kg lb			
B	A	MAX	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
7.6 m	6.0 m									* 4100	* 4100		
25'	20'									* 9100	* 9100		
6.1 m	7.2 m					* 6550	6100			* 3850	* 3850		
20'	24'					* 14400	13500			* 8500	* 8500		
4.6 m	7.9 m				* 8000	* 8000	* 7200	5950	* 5250	4300	* 3800	* 3800	
15'	26'				* 17700	* 17700	* 15850	13200	* 11600	9500	* 8450	* 8450	
3.0 m	8.3 m		* 12850	* 12850	* 10350	8650	* 8250	5750	6200	4200	* 3950	3700	
10'	27'		* 28300	* 28300	* 22850	19100	* 18200	12700	13850	9300	* 8700	8250	
1.5 m	8.4 m				* 12550	8150	8400	5550	6050	4100	* 4200	3600	
5'	27'				* 27700	18050	18500	12200	13400	9050	* 9350	8000	
0 m	8.1 m		* 7450	* 7450	12850	7900	8200	5350	6000	4000	* 4750	3700	
0'	27'		* 16500	* 16500	28300	17450	18100	11850	13200	8900	* 10500	8150	
-1.5 m	7.6 m		* 12000	* 12000	12750	7800	8150	5300	* 5850	4000	* 5650	4000	
-5'	25'		* 26500	* 26500	28100	17300	17950	11700	* 12950	8850	* 12550	8800	
-3.0 m	6.7 m		* 18500	14950	12800	7900	8150	5350			7100	4700	
-10'	22'		* 40850	33000	28250	17400	18050	11800			15650	10400	
-4.6 m	5.3 m		* 14950	* 14950	* 10650	8100					* 8900	6650	
-15'	17'		* 32950	* 32950	* 23500	17850					* 19700	14700	

*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



- 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' 8" one-piece boom
- Counterweight: 4370 kg 9,634 lb
- Bucket: None
- Lifting mode: On

Arm: 2900 mm 9'7" HD		Bucket: None				Shoes: 800 mm 31.5"				Unit: kg lb			
B	A	MAX	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
7.6 m	6.0 m									* 4100	* 4100		
25'	20'									* 9100	* 9100		
6.1 m	7.2 m					* 6550	6150			* 3850	* 3850		
20'	24'					* 14400	13850			* 8500	* 8500		
4.6 m	7.9 m				* 8000	* 8000	* 7200	6050	* 5250	4350	* 3800	* 3800	
15'	26'				* 17700	* 17700	* 15850	13300	* 11600	9600	* 8450	* 8450	
3.0 m	8.3 m		* 12850	* 12850	* 10350	8750	* 8250	5800	6250	4250	* 3950	3750	
10'	27'		* 28300	* 28300	* 22850	19250	* 18200	12850	13800	9400	* 8700	8300	
1.5 m	8.4 m				* 12550	8250	8500	5600	6150	4160	* 4200	3650	
5'	27'				* 27700	18250	18700	12350	13550	9150	* 9350	8050	
0 m	8.1 m		* 7450	* 7450	12950	8000	8300	5450	6050	4050	* 4750	3700	
0'	27'		* 16500	* 16500	28600	17650	18300	12000	13350	9000	* 10500	8250	
-1.5 m	7.6 m		* 12000	* 12000	12850	7900	8200	5350	* 5850	4050	* 5650	4050	
-5'	25'		* 26500	* 26500	28400	17450	18150	11850	* 12950	8950	* 12550	8900	
-3.0 m	6.7 m		* 18500	15100	12950	7950	8250	5400			7150	4750	
-10'	22'		* 40850	33350	28550	17600	18250	11900			15850	10500	
-4.6 m	5.3 m		* 14950	* 14950	* 10650	8150					* 8900	6700	
-15'	17'		* 32950	* 32950	* 23500	18050					* 19700	14850	

*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

- 3 Speed travel with Auto shift
- Alternator, 90 Ampere, 24V
- AM/FM radio
- Automatic engine warm-up system
- Automatic air conditioner/heater
- Auto idle
- Auto Idle Shutdown (programmable)
- Lever lock Auto-lock
- Auxiliary input (3.5 mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valves
- Carrier rollers (2 each side)
- Converter, (2) x 12V
- Counterweight, 4370 kg **9,634 lb**
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-3
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-cleaner 10 micron
- High back air suspension seat, with heat
- Hydraulic track adjusters
- KOMTRAX® Level 5.0
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1
- Operator Identification System
- Pattern change valve (ISO to BH control)
- Power maximizing system
- PPC hydraulic control system
- Pump/engine room partition cover
- Radiator and oil cooler dustproof net
- Rear reflectors
- Rearview monitoring system (1 camera)
- Revolving frame deck guard
- Revolving frame undercovers
- ROPS cab
- Seat belt, retractable, 76 mm **3"**
- Seat belt indicator
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 800 mm **31.5"**
- Skylight
- Slip resistant foot plates
- Starter motor, 5.5kW/24V x 1
- Suction fan
- Thermal and fan guards
- Track frame undercover
- Track frame swivel guard
- Travel alarm
- Working lights, 2 (boom and RH front)
- Working mode selection system



OPTIONAL EQUIPMENT

- Arms
 - 2925 mm **9'7"** HD arm assembly
 - 2925 mm **9'7"** HD arm assembly with piping
- Booms
 - 5700 mm **18'8"** boom assembly
 - 5700 mm **18'8"** HD boom assembly with piping
- Cab guards
 - Full front guard, OPG Level 1
 - Full front guard, OPG Level 2
 - Bolt-on top guard, OPG Level 2
 - Lower front window guard
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Revolving frame undercovers, heavy duty
- Shoes, triple grouser, 700 mm **28"**
- Sun visor
- Rain visor
- Straight travel pedal
- Track roller guards, full length
- Working light, front, one additional



ATTACHMENT OPTIONS

- Cab air pre-cleaner
- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Super long fronts
- PSM thumbs
- Rockland thumbs
- Vandalism protection guards with storage box

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



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KOMATSU®

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PC210LC-11 HYDRAULIC EXCAVATOR

F.O.B. U.S. STOCKING AREA
(CE) CONSTRUCTION EQUIPMENT

Standard Equipment for Base Machine**Engine and its related items:**

Air cleaner, double element dry type with auto dust evacuator
Cooling fan, viscous clutch, suction, plastic blade, with fan guard
Komatsu SAA6D107E-3 Tier 4 Final emissions certified engine
164.6 HP (122.8 kW) @ 2,000 rpm
Komatsu Diesel Particulate Filter (KDPF)
Selective Catalytic Reduction (SCR) aftertreatment
with DFF tank and heated lines
After-cooled, turbocharged, direct injection
Komatsu Variable Geometry Turbocharger (KVGt)

Electrical system:

Alternator (90 Ampere / 24V)
Large capacity batteries (2 x 12V / 170 AH)
Starting motor (5.5 kW)
Working Lights (1 front RH side / 1 boom LH side)
Engine shutdown secondary switch
Battery disconnect switch

Undercarriage:

28" (700mm) triple grouser shoes with sealed (dry)
link assembly (each side)
9 track / 2 carrier rollers (each side)
Hydraulic track adjusters (each side)
Track guiding guard (each side)

Guards and Covers:

Revolving frame deck guard
Revolving frame undercover
Track frame undercover (carbody swivel guard, hinged)
Pump / engine room partition cover
Turbocharger exhaust manifold cover
Dust net for radiator and oil cooler
Low noise machine cover

Operator environment:

Cab, all weather sound suppression type with tinted safety
glass windows, pull-up type front window with lock device,
removable lower windshield, large ceiling hatch, lockable door,
cab-frame mounted intermittent window wiper and washer,
floor mat, cigarette lighter (24V), AM/FM radio, air conditioner,
heater and defroster, hot/cold storage box, antenna
Large LCD high resolution color monitor panel
Working mode selection, Equipment Management Monitoring
System (EMMS) with self diagnostic system monitoring,
maintenance tracking and records, fault code memory storage,
energy saving advice, hydraulic flow adjustments for attachments
Access handrails for machine cab
Rearview mirrors, right hand and left hand side
High back, fully adjustable air suspension seat with double
slide mechanism with console mounted arm rests
Retractable seat belt, 3" width
Heated Seat

Auxiliary jack for auxiliary device or MP3 player
Operator Protective Guard (OPG) Level 1 Top Guard
12 V accessory outlets (2)

ROPS certified cab

Hydraulic controls:

HydrauMind system, full hydrostatic with closed center load
sensing (CLSS) and engine sensing with variable speed
matching control
Pump and engine mutual control system
Auto-deceleration system
Automatic engine warm-up system
Engine overheat prevention system
Power maximizing system
Cushioned hydraulic valve spools - Swift slow down system
1 axial piston swing motor with single stage relief valve
2 axial piston travel motors with counter balance valve
2 variable capacity piston pumps
7 spool control valve (boom, arm, bucket, swing, right travel,
left travel, and 1 service valve, (2 pump flow capacity)
Boom and arm holding valves
Control levers, adjustable wrist control levers for arm, boom,
bucket and swing with PPC system
Control levers and pedals for steering and travel with PPC system
Pattern change valve (ISO to BH control)

Drive and brake system

Brakes, hydraulic lock type travel brakes, oil disc type parking
and swing holding brake
Hydrostatic, 3 travel speeds system w/ auto-shift and planetary
double reduction type final drive

Special arrangements:

Cold area arrangement, -4°F (-20°C) through
+113°F (45°C) at sea level
Altitude arrangement (no fuel adjustment up to 2,300 m (7,545 ft))

Other Standard Equipment:

Counterweight, 9,634 lbs. (4370 kg)
Electric horn
KOMTRAX 5.0 monitoring system (Cellular 2G / 3G System)
Marks and plates, English
Komatsu standard paint
Travel alarm
Provision for Vandalism protection (Padlocks not included)
Rearview monitoring system (1 camera)
Includes boom base and boom cylinder pins
Operator identification system

* Does not include arm, boom, or bucket

PC210LC-11

CONSIGNMENT ELIGIBILITY:

SP = In an existing spec pattern
YES = Eligible for consignment (option may or may not need to be removed if machine is moved)
YES-CSC= Eligible for consignment - DB MUST remove items **and be invoiced for them** if machine is moved
NO = Not eligible for consignment - Build to order machine - Invoiced in 90 days
N/A = Not Applicable

MANUFACTURING FLEX CODE LEAD TIME (Pending option availability):

A = At order timing-Changes require machine reallocation C = 1 week
B = 2 weeks X = At order timing - Must take if ordered

INDIVIDUAL ORDER:

Z= Factory install only C = Available loose. May require combination w/ other optio
A = Factory install or loose L = Available but may cause long lead time - Contact CSC
B = Available loose K = Factory Install or Loose with Komatsu Approval for
(May require replacement parts) machine

DESCRIPTION	SALES UNIT CODE	CONSIGNMENT ELIGIBILITY	LEAD TIME	FLEX CODE	INDIV. ORDER	LIST PRICE US DOLLAR
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BASE MACHINE

PC210LC-11 BASE MACHINE	PC210LC-11					\$ 286,686
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DESCRIPTION	SALES UNIT CODE	CONSIGNMENT ELIGIBILITY	LEAD TIME	FLEX CODE	INDIV. ORDER	LIST PRICE US DOLLAR
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SPEC ARRANGEMENTS**SPEC ARRANGEMENT A**

PC210LC-11 BASE MACHINE	SPEC A PC210LC-11					\$ 286,686
18' 8" (5700mm) HD boom assembly	4PA5700C-R					\$ 34,830
9' 7" (2925mm) HD arm assembly	4PB2900C-S					\$ 18,801
4.37 Ton Counterweight - 9,634 lb (4370 kg)	4PL21					In Base
31.5" (800mm) triple grouser shoes	2PX19G80UF					\$ 534
Revolving frame undercover, std.*	2PM01-EDAA					In Base
Track roller guards	2PP02-EDAA					In Base

* Only items that can be changed within spec arrangements

SPEC ARRANGEMENT B

PC210LC-11 BASE MACHINE	SPEC B PC210LC-11					\$ 286,686
18' 8" (5700mm) HD boom assembly + 1 att piping	4PA5700F-R					\$ 38,450
9' 7" (2925mm) HD arm assembly + 1 att piping	4PB2900F-S					\$ 21,641
Hydraulic control unit (provision for breaker or 1-additional actuator)	4PE11B					\$ 11,195
Proportional Joysticks - Installed	6PX994014D					\$ 2,989
4.37 Ton Counterweight - 9,634 lb (4370 kg)	4PL21					In Base
31.5" (800mm) triple grouser shoes	2PX19G80UF					\$ 534
Revolving frame undercover, std.*	2PM01-EDAA					In Base
Track roller guards	2PP02-EDAA					In Base

*Only items that can be changed within spec arrangements

SPECIAL ARRANGEMENTS - Contact CSC**WASTE HANDLER ARRANGEMENT**

PC210LC-11 BASE MACHINE	PC210LC-11					\$ 286,686
18' 8" (5700mm) HD boom assembly	4PA5700C-R					\$ 34,830
9' 7" (2925mm) HD arm assembly*	4PB2900C-S					\$ 18,801
31.5" (800mm) triple grouser shoes	2PX19G80UF					\$ 534
Revolving frame undercover, SD (9.0mm)	2PM03SD-EDAA					\$ 5,258
Track roller guards	2PP02-EDAA					In Base
Engine pre-cleaner, Sy-Klone Optimax	6PC48-EDAA					\$ 1,109
Waste Handler Package	6PX50-DEDA					\$ 26,454

Includes: Wide Core Cooling Package

Auto-reversing cooling fan

Corrugated and perforated screen package on cooler compartment doors

Requires: Revolving frame undercovers, Severe Duty

Engine pre-cleaner, Sy-Klone Optimax 2-stage

Excludes: Dust net for radiator and oil cooler

***Only items that can be changed within spec arrangements**

RECOMMENDED BASE MACHINE OPTIONS FOR WASTE HANDLER PACKAGE (NN)	
Filter/pressurizer, oper cab, Sy-Klone Respa	6PX99RESPA

OPG Level 1 Front Guard*	6PB55-F
OPG Level 2 Front Guard*	6PB57-N
OPG Level 2 Top Guard	6PB58A-M

*Not compatible with 6PE40-C Rain Visor

Extended Coverage Agreement

This _____ Extended Coverage Agreement is entered into as of the following date- _____
between _____, having an office at _____ ("Distributor"),
and _____, having an office at _____ ("Customer").

1. Coverage:

- a. Subject to the terms and conditions below, Distributor will provide parts, labor and other services required to correct failures to certain components ("Covered Items") on _____ ("Machine") that occur as a result of a defect in material or workmanship. The repairs executed to correct these defects will return the Machine to its operating condition prior to the covered failure. Each claim occurrence is subject to a \$0 Deductible.
- b. The Machine will be eligible for this coverage starting at _____ (MM/DD/YYYY) and expiring the earlier of the date when the Machine has accumulated _____ SMR hours or _____ MM/DD/YYYY. The phrase "SMR hours" represent the engine run time for the Machine and are measured using the hour meter or monitor panel installed in the Machine's operator cab.
- c. The Covered Items for this Machine are identified by a checkmark under the Coverage Type ("Coverage Type") column of attached Appendix 1.

2. Exclusions and Limitations:

The obligations of Distributor under this Agreement will not include:

- a. Repairs or replacements of:
 - i. Hose and tube flange o-rings and gaskets.
 - ii. Hoses after the Machine has been in service for 24 months or 4000 SMR hours.
 - iii. Hydraulic cylinder packing replacements after the Machine has been in service for 5,000 SMR hours.
 - iv. Starters, alternators, thermostats, belt tensioners, injectors, turbochargers, DPF, HC and DEF dosing nozzles, and water pumps after the Machine has been in service for 5,000 SMR hours.
 - v. Covered Items that are worn because of use. Examples of wear resulting from use would include, by way of example but not limitation, oil consumption and high blow-by pressure on engines, hydraulic cylinder seal leaks, wear of clutch or brake packs, pins or bushings, etc.
 - vi. Machine parts that are not procured from or an authorized distributor.
 - vii. Machine attachments, optional extras and other work equipment such as buckets, dump bodies, blades, and associated wear packages such as teeth, cutting edges, and liners.
 - viii. Any Machine part or component not specifically included within the scope of the Coverage Type, unless otherwise noted.
- b. Operating expenses on Covered Items required to keep the Machine in good operating condition and repair, including by way of example but not limitation:
 - i. System adjustments.
 - ii. Cleaning and calibration/re-calibration of intelligent Machine Control components (unless re-calibration is required due to the repair or replacement of a covered intelligent Machine Control component).
 - iii. Hardware, Software, or Firmware updates.
 - iv. Cosmetic damage that does not impact product functionality.
 - v. Scheduled maintenance outlined in the Machine Operation and Maintenance Manual ("O&M Manual"), including the cost of periodic maintenance items such as filters, lubricants, brushes, grease, and A, B, C and D checks on engines.
 - vi. Manufacturer oil wear analysis including the cost of drawing samples, oil, sampling accessories, postage and analysis report fees.

- vii. The cost of carrying out maintenance recommendations such as early re-sampling and/or replacement of oil or filters.
- viii. As needed maintenance items such as repairs or replacements of mounting hardware, including bolts, nuts, pins, bushings, and bearings, paint, windshield wiper blades, seat belt assemblies, air cleaners, belts, light bulbs, batteries, cables, fuses, tires, track link assemblies, track shoes, idlers, rollers, sprockets, rock guards and deflectors.
- ix. Cost of carrying out scheduled structural inspections that are required to maintain coverage for certain Covered Items for Frame and Boom & Arm Coverage Types. If you wish to perform these inspections yourself, please obtain a copy of the Distributor Inspection Worksheet from your local distributor.

c. Machine or Covered Item failures resulting from:

- i. Operating the Machine outside the guidelines specified in O&M Manual.
- ii. Operating the Machine outside of the parameters specified in the Machine specific Payload Policy or other notices or letters from Distributor or Manufacturer.
- iii. Noncompliance with the maintenance schedule and procedure outlined in the Machine's O&M manual.
- iv. Fuel, lubricant or coolant contamination from any source.
- v. Continuing to operate the machine when oil sample reports or monitor system panels show critical system errors, indicate that components are compromised by failures or are performing below specifications when the Distributor has requested that components be repaired or removed from the machine because of an impending failure, authorized field campaign or other good cause.
- vi. Improper Machine storage procedures.
- vii. Incomplete or faulty repair procedures on previous repairs completed by any person other than Distributor.
- viii. Improper initialization procedures during Machine commissioning if the commissioning process was carried out by any person other than Distributor.
- ix. Machine attachments options, accessories, modifications, or work equipment not authorized in O&M Manual and other materials published by Manufacturer for distributors and customers or otherwise approved in writing and signed by an engineering officer of the Manufacturer.
- x. Work site hazards or falling objects.
- xi. Fire, accidents, vandalism, theft, acts of terrorism or war, acts of nature or other causes beyond the direct control of Distributor.
- xii. Misuse, misapplication, negligence or other misconduct on the part of Customer or any other person.

d. Customer may be responsible for paying for the following specific expenses related to repairs on Covered Items:

- i. Transporting the Machine to a Distributor facility for completion of a covered repair and transporting the Machine back to the Machine's work location after completion of the covered repair.
- ii. Overtime labor charges incurred at the request of Customer to complete repairs outside of the Distributor's normal working hours.
- iii. Additional services performed at the Customer's request outside the scope of the Coverage Time, including, by way of example but not limitation, replacing parts and components outside such scope during the course of performing a repair on a Covered Item.
- iv. Any deductible as noted in section 1 of this document.

3. Customer Responsibilities:

The obligations of Distributor under this Agreement are subject to and conditioned by the Customer's timely performance of the following, at their own expense:

- a. Operate, maintain, store, repair and otherwise use the Machine per the guidelines specified in the O&M Manual, Machine specific Payload Policy and all other notices or letters from Distributor or Manufacturer concerning such topics.
- b. Maintain the Machine Monitoring Systems in good operating condition and repair.
- c. Carry out structural inspections for Machines with Frame or Boom & Arm Coverage Types utilizing the Distributor Inspection Worksheets as follows:
 - For the first 10,000 SMR hours on the Machine, a structural inspection will be completed every 5,000 Machine SMR hours or every 12 months, whichever comes first;
 - After the first 10,000 SMR hours on the Machine, a structural inspection will be completed every 2000 Machine SMR hours or 12 months thereafter, whichever comes first.
- d. Notify Distributor promptly in the event of failure of a Covered Item. In the event that the Machine is located outside of the Distributor territory at the time of a Covered Item failure, Customer can contact the local distributor to carry out the covered repair.

4. Distributor Responsibilities:

- a. Distributor will exercise commercially reasonable efforts to respond promptly to any Customer requests and questions related to this Agreement.
- b. Distributor will carry out covered repairs during normal Distributor working hours.

5. Transferability:

This Agreement is specific to the Machine listed in Section 1. Customer may not assign its right under this Agreement without the prior written consent of Distributor (such consent not to be unreasonably withheld).

6. Limitation of Liability:

Except as expressly provided in this Agreement and in any written warranty certificate delivered by Distributor to Customer in connection with a purchase, Distributor does not make any representations or warranties, expressed, implied, arising by operation of law or otherwise, as to merchantability, fitness for a particular purpose, quality, design, condition, suitability, performance or any other matter or characteristic with respect to the Machine and any related attachments, options, accessories, modifications, or work equipment. For any failure within the scope of the Coverage Type, Customer agrees that its sole and exclusive remedy will be for Distributor to perform the required repair. Distributor will not be liable under any circumstance to Customer for, and Customer waives and releases Distributor from all claims and liabilities for, any general, special, incidental, punitive, consequential, exemplary or any other damages of whatever kind or nature suffered or incurred by consignee, directly or indirectly, actual or alleged, whether arising in tort or in contract or otherwise, related to or arising out of this Agreement and the Machines and any related attachments, options, accessories, modifications, or work equipment.

Agreed to by Customer and Distributor as of the Effective Date.

DISTRIBUTOR:

CUSTOMER:

By:

By:

Name:

Name:

Title:

Title:

COVERED ITEMS

COVERED ITEMS

COVERED ITEMS	PREMIER	PT Plus	PT	ENGINE	CYLINDER	FRAME	BOOM/ARM	FRAME INSPECTION
B) POWER TRANSMITTING SYSTEM								
• TRANSMISSION								
1. TRANSMISSION AND TORQUE CONVERTORS	✓	✓	✓					
2. TORQUE FLOW ASSEMBLY/POWER MODULE	✓	✓	✓					
3. HYDROSTATIC PUMPS AND MOTORS	✓	✓	✓					
4. CONTROL AND PPC VALVES	✓	✓	✓					
5. OIL COOLERS, TANKS, AND RESERVOIRS	✓	✓	✓					
6. OIL FILTER MOUNT	✓	✓	✓					
7. ELECTRONIC CONTROL MODULE	✓	✓	✓					
8. SENDERS, SOLENOIDS, AND SENSORS	✓	✓	✓					
9. STEERING AND TRANSFER CASES	✓	✓	✓					
10. DAMPER	✓	✓	✓					
11. SWING GEAR BOX	✓	✓	✓					
12. PIPES, TUBES, CLAMPS, AND HOSES*	✓							
• DRIVE LINE								
1. AXLES AND AXLE HOUSINGS	✓	✓	✓					
2. AXLE MOUNTING AND OSCILLATION	✓	✓	✓					
3. DIFFERENTIALS AND FINAL DRIVES	✓	✓	✓					
4. WHEEL/RIM	✓							
5. DRIVE SHAFT/AXLE SHAFT AND UNIVERSAL JOINTS	✓	✓	✓					
6. VALVES	✓	✓	✓					
7. PIPES, TUBES, CLAMPS, AND HOSES*	✓							
C) STEERING (eligibility under the PT coverage type applies to Track machines only)								
1. STEERING CLUTCH	✓	✓	✓					
2. STEERING CLUTCH & BRAKE CONTROL VALVE	✓	✓	✓					
3. STEERING PUMP AND EMERGENCY STEERING PUMP	✓	✓	✓					
4. STEERING OIL COOLER	✓	✓	✓					
5. STEERING VALVES	✓	✓	✓					
6. STEERING BOX	✓	✓	✓					
7. STEERING LINKAGE, COLUMN, AND CONSOLE	✓							
8. TIE ROD	✓							
9. SENDERS, SOLENOIDS, AND SENSORS	✓							
10. PIPES, TUBES, CLAMPS, AND HOSES*	✓							
D) BRAKING SYSTEM								
1. BRAKE PRIMARY & SECONDARY CYLINDERS	✓							
2. BRAKE PUMP AND EMERGENCY BRAKE PUMP	✓							
3. WET BRAKE ASSEMBLIES	✓	✓	✓					
4. BRAKE OIL COOLER ASSEMBLIES	✓	✓	✓					
5. BRAKE OIL COOLER FAN, PUMP, AND MOTOR	✓	✓	✓					
6. BRAKE CALIPER	✓							
7. ACCUMULATORS	✓							
8. TANKS & RESERVOIRS	✓							
9. ELECTRONIC CONTROL MODULES	✓							
10. SENDERS, SOLENOIDS, AND SENSORS	✓							
11. PIPES, TUBES, CLAMPS, VALVES AND HOSES*	✓							
E) COOLING SYSTEM:								
1. RADIATOR	✓							
2. EXPANSION TANK	✓			✓				
3. THERMOSTAT**	✓	✓	✓					
4. COOLING FAN, FAN DRIVE, AND SHROUDING	✓	✓	✓					
5. WATER PUMP**	✓	✓	✓					
6. SENDERS, SOLENOIDS, AND SENSORS	✓	✓	✓					
7. PIPES, TUBES, CLAMPS, VALVES AND HOSES*	✓							

COVERED ITEMS	PREMIER	PT Plus	COVERAGE TYPES				FRAME	BOOM/ARM	FRAME INSPECTION
			PT	ENGINE	CYLINDER				
F) HYDRAULIC SYSTEMS									
1. NON-PROPULSION HYDRAULIC PUMPS & MOTORS	✓	✓							
2. HYDRAULIC CYLINDERS	✓	✓			✓				
3. HYDRAULIC VALVE & CONTROLS	✓	✓							
4. ELECTRONIC CONTROL MODULES	✓	✓							
5. HYDRAULIC ACCUMULATORS	✓	✓			✓				
6. HYDRAULIC OIL COOLERS AND COOLING FANS	✓	✓							
7. SWIVELS (ROTARY MANIFOLDS)	✓	✓							
8. SWING MOTOR	✓	✓							
9. HYDRAULIC OIL FILTER ASSEMBLY	✓	✓							
10. HYDRAULIC TANKS	✓	✓							
11. SENDERS, SOLENOIDS, AND SENSORS	✓	✓							
12. PIPES, TUBES, CLAMPS, VALVES AND HOSES*	✓	✓							
G) SUSPENSION									
1. ELECTRONIC CONTROL MODULE	✓								
2. SUSPENSION CYLINDERS AND CONTROL VALVES	✓				✓				
3. SUSPENSION CONTROL ARM ASSEMBLIES	✓								
4. SENDERS, SOLENOIDS, AND SENSORS	✓								
5. PIPES, TUBES, CLAMPS, VALVES, AND HOSES*	✓								
H) ELECTRICAL SYSTEM									
1. GAUGES & INSTRUMENTS	✓								
2. WIRING HARNESSES	✓								
3. SWITCHES	✓								
4. RELAYS & CIRCUIT BREAKERS	✓								
5. START SWITCH	✓								
6. FUSE / CIRCUIT BREAKER PANEL & CIRCUIT BOARD	✓								
7. MONITOR PANELS	✓								
8. KOMTRAX, VHMS, AND PIM (PAYLOAD METER)	✓								
9. ELECTRONIC CONTROLLERS	✓								
10. AIR INTAKE HEATERS AND GLOW PLUGS	✓								
11. SENDERS, SOLENOIDS, AND SENSORS	✓								
I) FRAMES, STRUCTURAL, & LINKAGES									
1. BOOM/ARM	✓						✓	✓	✓
2. BELL CRANK AND Z BAR ON WHEEL LOADERS	✓						✓		✓
3. CAR BODY	✓								✓
4. STEEL FRAME (FRONT, REAR, SUB) /REVOLVING FRAME	✓					✓			✓
5. STEEL OF OUTRIGGER ON BACKHOE LOADERS	✓					✓			✓
6. MOTOR GRADER CIRCLE	✓					✓			✓
J) UNDERCARRIAGE RELATED PARTS									
1. BOGIE ASSEMBLIES	✓								
2. EQUALIZER BAR	✓								
3. H.I.C. ASSEMBLIES	✓								
4. PIVOT SHAFT ASSEMBLY	✓								
5. RECOIL SPRINGS	✓								
6. TRACK ADJUSTERS	✓								
7. TRACK ROLLER FRAME	✓								
K) HYBRID SYSTEMS									
1. CAPACITOR/INVERTER	✓	✓	✓						
2. GENERATOR/MOTOR	✓	✓	✓						
3. HYBRID CONTROLLER	✓	✓	✓						
4. LUBRICATION PUMP	✓	✓	✓						
5. RADIATOR	✓	✓	✓						
6. SWING MOTOR	✓	✓	✓						
7. WATER PUMP**	✓	✓	✓						
8. WIRING HARNESS	✓	✓	✓						
L) INTELLIGENT MACHINE CONTROL SYSTEM									
1. GNSS AND GPS ANTENNA(S), GNSS RECEIVER/CONTROLLER, GNSS	✓								
2. CONTROL BOX AND ICT CONTROLLER	✓								
3. IB MONITOR	✓								
4. SENSORS AND ENCODERS	✓								
Premier Coverage Type includes items in addition to the above list, and is subject only to the limitations listed in Section 2 of this agreement. * Indicates coverage for 24mo/4000 hours ** Indicates coverage through the first 5000 hour									

Premier Coverage Type includes items in addition to the above list, and is subject only to the limitations listed in Section 2 of this agreement.
 * Indicates coverage for 24mo/4000 hours
 ** Indicates coverage through the first 5000 hour



Company ID Number:571783

Client Company ID Number:1453697

Information Required for the E-Verify Program	
Information relating to your Company:	
Company Name	Tractor & Equipment Co Inc
Company Facility Address	5336 Messer Airport Highway Birmingham, AL 35212
Company Alternate Address	PO Box 12326 Birmingham, AL 35202
County or Parish	Jefferson
Employer Identification Number	63-0211767
North American Industry Classification Systems Code	Merchant Wholesalers, Durable Goods (423)
Parent Company	
Number of Employees	500 to 999
Number of Sites Verified for	22