

# KOMATSU®

# PC390LC-11

Tier 4 Final Engine

## HYDRAULIC EXCAVATOR



Photos may include optional equipment.

### NET HORSEPOWER

257 HP @ 1950 rpm  
192 kW @ 1950 rpm

### OPERATING WEIGHT

87,867–90,441 lb  
39856–41023 kg

### BUCKET CAPACITY

0.89–2.91 yd<sup>3</sup>  
0.68–2.22 m<sup>3</sup>

# PC390LC

# WALK-AROUND

PC390LC-11



Photos may include optional equipment.

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## EXCEPTIONAL STABILITY & IMPROVED PERFORMANCE

**Large Undercarriage Design** significantly increases overside lift capacity and provides exceptional stability in applications that require long arms or heavy attachments.

**Power Mode** with enhanced engine and hydraulic pump control logic provides greater hydraulic power and speed for faster cycle times, improved multifunction performance and up to 12% greater productivity than the previous model.

A powerful **Komatsu SAA6D114E-6 engine** provides a net output of 192 kW **257 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.

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

**Large displacement high efficiency pumps** provide high flow output at lower engine speed, improving efficiency.

**6 Working modes** are designed to match engine speed, pump delivery and system pressure to the application.

**Performance Power Mode** provides improved power and hydraulic flow for faster cycle times and multifunction operation.

**Robust undercarriage** is designed using larger size class components for increased reliability, greater over the side lift capacity and component longevity.

**Large maximum drawbar pull** provides excellent maneuverability and slope climbing performance.

**Two boom mode settings** provide power mode for maximum digging force or smooth mode for fine grading operations.

**Komatsu's Closed-center Load Sensing System (CLSS)** provides quick response and smooth operation to maximize productivity.

**Rearview monitoring system (standard)** with integrated camera display in the default monitor screen.

The **KOMTRAX®** telematics system is standard on Komatsu equipment with no subscription fees throughout the life of the machine. Using 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

- 7" high resolution display
- Enhanced hydraulic attachment control with one way/two way flow and programmable work tool names and settings
- Rear view camera display integrated into the default monitor screen
- Key machine settings and controls easily accessible through the monitor



### Enhanced working environment

- High back, heated air suspension seat with adjustable arm rests
- Integrated ROPS cab design
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard
- Standard pattern change valve to switch between ISO and BH control pattern
- Auxiliary jack and (2) 12V power outlets
- Auto climate control

### Komatsu designed and manufactured components

**Handrails (standard)** located on the machine's upper structure provide a convenient work area in front of the engine.

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

**Heavy duty boom** design with large one piece castings provide increased strength and durability.

**Komatsu Auto Idle Shutdown** helps reduce nonproductive engine idle time and reduces operating costs.

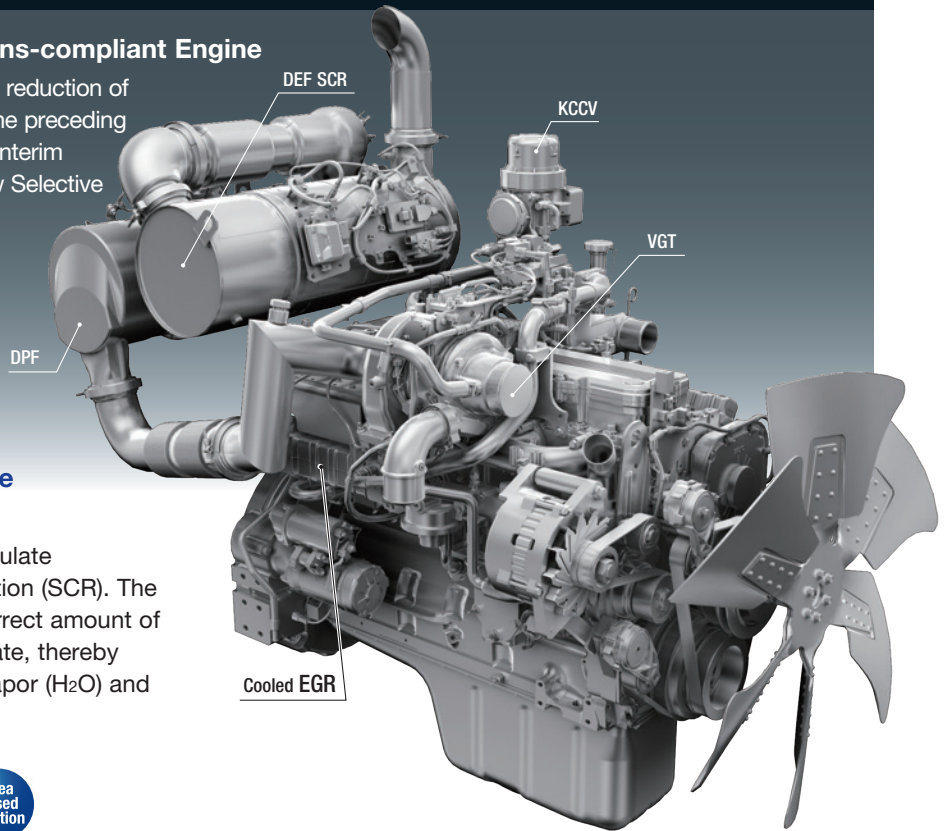
**Operator Identification System** records KOMTRAX® machine operation and application data for up to 100 individual ID codes.

# PERFORMANCE FEATURES

## KOMATSU NEW ENGINE TECHNOLOGIES

### Komatsu's New Emission Regulations-compliant Engine

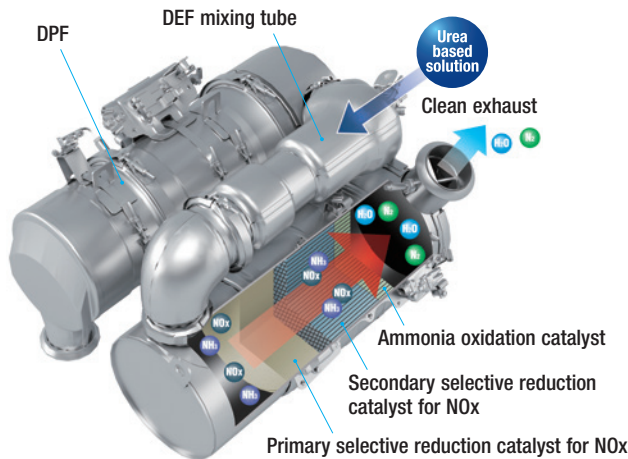
New regulations effective in 2014 require the reduction of NOx emissions to one tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new Selective Catalytic Reduction (SCR) device in-house.



### Technologies Applied to New Engine

#### Heavy-duty aftertreatment system

This new system combines a Diesel Particulate Filter (DPF) 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 (H<sub>2</sub>O) and nitrogen gas (N<sub>2</sub>).

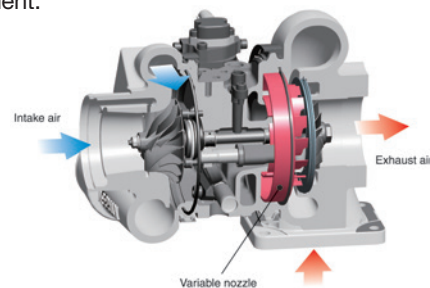


#### Advanced Electronic Control System

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.

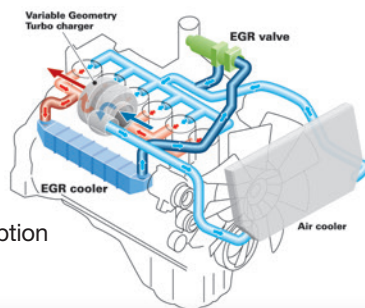
#### Variable Geometry Turbocharger (VGT) system

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.



#### 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 reduce fuel consumption below Tier 4 Interim levels.



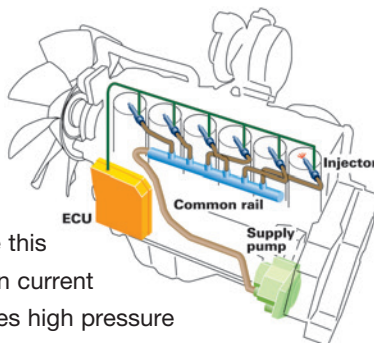
**Komatsu Auto Idle Shutdown**

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 amount of time before the engine is 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 both PM emissions and fuel consumption over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced fuel consumption and lower soot levels.



**Enhanced Productivity**

The PC390LC-11's P Mode provides improved performance in demanding applications.

**Productivity**

**Up to 12% increase**  
(compared to the PC390LC-10 in P Mode)

P mode (90° swing truck loading)

**Increased Work Efficiency**

**Large digging force**

With the one-touch Power Max. function, digging force is increased for up to 8.5 seconds of operation.

**Maximum arm crowd force (ISO)**

**160 kN(16.3t) ➔ 171 kN(17.4t) 7% UP**  
(With Power Max.)

**Maximum bucket digging force (ISO)**

**213 kN(21.7t) ➔ 228 kN(23.2t) 7% UP**  
(With Power Max.)

Measured with Power Max. function, 3185 mm arm and ISO rating

**Faster arm cycle speeds**

Two return hoses improve arm cylinder hydraulic flow for faster arm out performance.

**Two-mode settings for boom**

- Smooth boom mode provides easy operation for gathering material or scraping down
- Power boom mode maximizes digging force for more effective excavating

**Lifting mode**

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



# WORKING ENVIRONMENT

PC390LG-11





**Comfortable Working Space**

**Wide spacious cab**

Wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational posture of armrest together with the console. Reclining the seat further enables you to place it into the fully flat state with the headrest attached.

**Armrest with simple height adjustment function**

A plunger and lock permits simple and fast adjustments for armrest height.



**Low vibration with cab damper mounting**

**Automatic climate control**

**Pressurized cab**

**Auxiliary input jack**

An auxiliary audio input makes it easy to connect a device to play audio through the standard speakers.

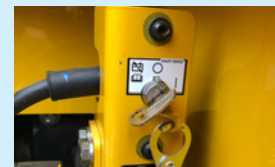


**Standard Equipment**

Sliding window glass (left side)



Lockout Tagout Ready



Remote intermittent wiper with windshield washer



Tie Off Points Standard (ISO 14567)



Opening & closing skylight



Magazine box & cup holder



Defroster (conforms to the ISO standard)



One-touch storable front window lower glass



# WORKING ENVIRONMENT

PC390LC-11

## 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

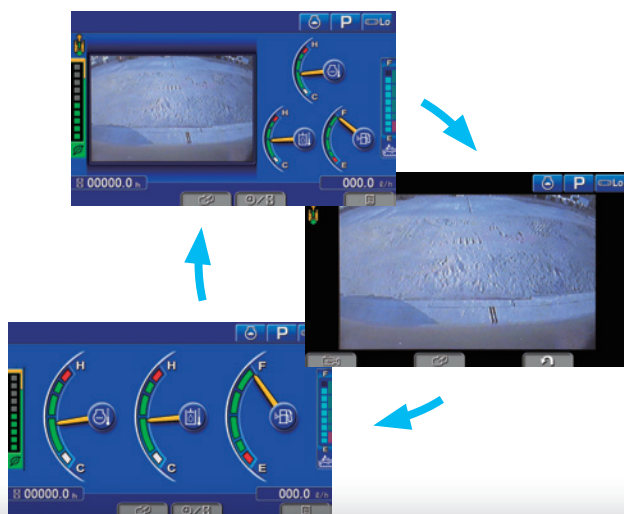
- |                                    |                             |
|------------------------------------|-----------------------------|
| 1 Auto-decelerator                 | 8 Fuel gauge                |
| 2 Working mode                     | 9 DEF level gauge           |
| 3 Travel speed                     | 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                       |                    |



## 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.



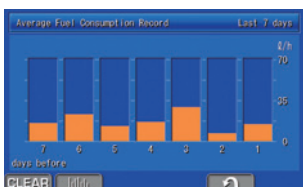
Ecology gauge      Fuel consumption gauge  
Ecology guidance

### Operation record, fuel consumption history, and ecology guidance record

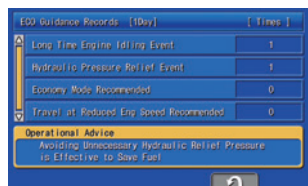
The ecology guidance menu enables the operator to check the operation record, fuel consumption history and ecology guidance record from the ecology guidance menu, using a single touch, thus enabling the total fuel consumption to be reduced.



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

PC390LC-11



PC  
390  
LC

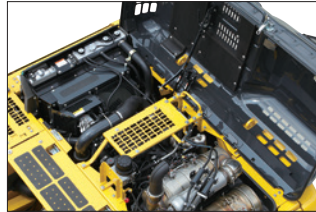
### Large capacity air cleaner

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.



### Engine Access

Large rear opening hood provides excellent maintenance and service access to key engine components.



### Fuel Filters

Large high-efficiency fuel filter and pre-filter with water separator removes contaminants from fuel for improved fuel injection system life. Built-in priming pump simplifies maintenance.



High efficiency fuel filter      Fuel pre-filter (with water separator)

### Easy access to engine oil filter and fuel drain valve

Engine oil filter and fuel drain valve are remote mounted to improve accessibility.



### Battery disconnect switch

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



### Air conditioner filter

The air conditioner filter can be removed and installed without the use of tools for easy filter maintenance.

#### Washable cab floormat

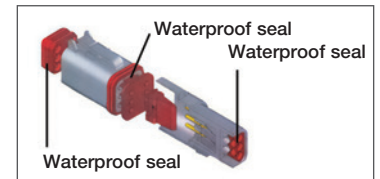
#### Sloping track frame

#### Long-life oils, filters

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

### DT-type connectors

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



### 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 Stational 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 DPF.



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

# MAINTENANCE FEATURES

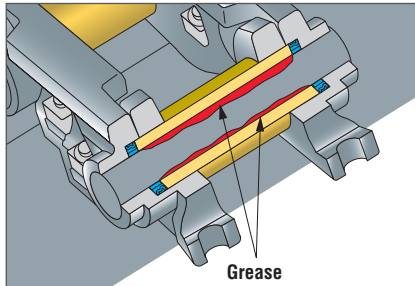
## Robust Undercarriage

The undercarriage is designed using larger size class components to provide improved reliability, good over the side lift capacity and long component life.



## Grease Sealed Track

The PC390LC-11 uses PC490 class grease sealed tracks for extended undercarriage life.



## Large Displacement High Efficiency Pumps

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



## Working Mode Selection

The PC390LC-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). 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 PC390LC-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

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



# 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.

Rear view camera

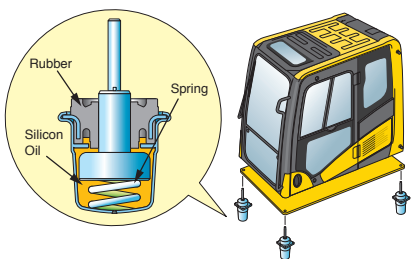


Rear view image on monitor



## Low Vibration with Viscous Cab Mounts

The PC390LC-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.



**Lock lever**

**Retractable seat belt**

**Tempered & tinted glass**

**Large cab entrance step**

**Left and right side handrails**

**Seat belt caution indicator**



**Large mirrors**

**Slip-resistant plates**

**Thermal and fan guards**

**Pump/engine compartment partition**

**Travel alarm**



# KOMATSU PARTS & SERVICE SUPPORT



## KOMATSU CARE

### Program Includes:

\*The PC390LC-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever occurs 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 DPF Exchange

The PC390LC-11 comes standard with 2 Complimentary DPF Exchange units for the first 5 Years or 9000 hours whichever occurs first. The suggested DPF Exchange unit service intervals are 4500 hours & 9000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the DPF.

### Complimentary SCR Maintenance

The PC390LC-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever occurs first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

## 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

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		✓		✓
CHECK OIL LEVEL IN DAMPER CASE, ADD WHEN NECESSARY		✓		✓
REPLACE MAIN FUEL FILTER		✓		✓
CHANGE SWING MACHINERY OIL		✓		✓
REPLACE HYDRAULIC OIL FILTER ELEMENT		✓		✓
CLEAN HYDRAULIC TANK STRAINER				✓
CHANGE FINAL DRIVE OIL				✓
REPLACE KCCV FILTER ELEMENT				✓
REPLACE DEF PUMP FILTER				✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓
2 DPF Exchanges suggested at 4,500 Hrs and 9,000 Hrs.				
2 SCR System Maintenance Services suggested at 4,500 Hrs. and 9000 Hrs.				

\* 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 2019 Komatsu America Corp.

PC390LC-11

# KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH  
**KOMTRAX**<sup>®</sup>

✓ **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**

- 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 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

✓ **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



**KOMTRAX**<sup>®</sup>

For construction and compact equipment.

**KOMTRAX Plus**<sup>®</sup>

For production and mining class machines.

# SPECIFICATIONS



## ENGINE

Model.....Komatsu SAA6D114E-6\*  
 Type.....Water-cooled, 4-cycle, direct injection  
 Aspiration.....Variable Geometry Turbocharger  
 with air-to-air aftercooler and EGR  
 Number of cylinders..... 6  
 Bore..... 114 mm **4.49"**  
 Stroke.....144.5 mm **5.69"**  
 Piston displacement..... 8.85 ltr **540 in<sup>3</sup>**  
 Horsepower:  
 SAE J1995.....Gross 202 kW **271 HP**  
 ISO 9249 / SAE J1349..... Net 192 kW **257 HP**  
 Rated rpm..... 1950  
 Governor..... All-speed control, electronic  
 Fan drive method for radiator cooling..... Mechanical

\*EPA Tier 4 Final emissions certified



## HYDRAULICS

Type...HydraMind (Hydraulic Mechanical Intelligence) system,  
 closed-center system with  
 load sensing valve and pressure compensated valves,  
 6 selectable working modes

Main pump:

Pumps for.....Boom, arm, bucket, swing, and travel circuits  
 Type.....Variable displacement axial piston type  
 Maximum flow..... 535 ltr/min **141.3 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 kgf/cm<sup>2</sup> **5,400 psi**  
 Travel circuit..... 37.3 MPa 380 kgf/cm<sup>2</sup> **5,400 psi**  
 Swing circuit..... 27.9 MPa 285 kgf/cm<sup>2</sup> **4,050 psi**  
 Pilot circuit..... 3.2 MPa 33 kgf/cm<sup>2</sup> **470 psi**

Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

Boom .... 2–140 mm x 1480 mm x 100 mm **5.5" x 58.3" x 3.9"**  
 Arm ..... 1–160 mm x 1825 mm x 110 mm **6.3" x 71.9" x 4.3"**  
 Bucket..... for 3.2 m **10'5"** and 4.0 m **13'2"** Arms  
 1–140 mm x 1285 mm x 100 mm **5.5" x 50.6" x 3.9"**  
 .....for 2.54 m **8'4"** Arm  
 1–150 mm x 1285 mm x 110 mm **5.9" x 50.6" x 4.3"**



## DRIVES AND BRAKES

Steering control.....Two lever with pedals  
 Drive method.....Hydrostatic  
 Maximum drawbar pull..... 329 kN 33510 kgf **73,880 lbf**  
 Gradeability..... 70%, 35%  
 Maximum travel speed (auto shift):

High..... 4.3 km/h **2.7 mph**  
 Mid..... 3.5 km/h **2.2 mph**  
 Low..... 2.8 km/h **1.7 mph**

Service brake..... Hydraulic lock  
 Parking brake..... Mechanical disc brake



## SWING SYSTEM

Driven by..... Hydraulic motor  
 Swing reduction..... Planetary gear  
 Swing circle lubrication..... Grease-bathed  
 Service brake..... Hydraulic lock  
 Holding brake/Swing lock..... Mechanical disc brake  
 Swing speed..... 9.5 rpm  
 Swing torque..... 11386 kg•m **82,313 ft lbs**



## UNDERCARRIAGE

Center frame..... X-frame  
 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)..... 8



## COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 605 ltr **159.8 U.S. gal**  
 Radiator..... 37 ltr **9.7 U.S. gal**  
 Engine..... 39 ltr **10.2 U.S. gal**  
 Final drive, each side..... 10.5 ltr **2.8 U.S. gal**  
 Swing drive..... 14 ltr **3.7 U.S. gal**  
 Hydraulic tank..... 188 ltr **49.7 U.S. gal**  
 Diesel Exhaust Fluid (DEF) tank..... 39 ltr **10.3 U.S. gal**



## SOUND PERFORMANCE

Exterior – ISO 6395.....103 dB(A)  
 Interior – ISO 6396.....71 dB(A)



## OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 6500 mm **21'3"** one-piece HD boom, 3185 mm **10'5"** arm, SAE heaped 1.96 m<sup>3</sup> **2.56 yd<sup>3</sup>** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser Shoes	Operating Weight	Ground pressure (ISO 16754)
700 mm	39856 kg	0.61 kg/cm <sup>2</sup>
<b>28"</b>	<b>87,867 lb</b>	<b>8.61 psi</b>
800 mm	40359 kg	0.54 kg/cm <sup>2</sup>
<b>31.5"</b>	<b>88,976 lb</b>	<b>7.63 psi</b>
900 mm	40796 kg	0.48 kg/cm <sup>2</sup>
<b>35.5"</b>	<b>89,940 lb</b>	<b>6.86 psi</b>

## Component Weights

Arm including bucket cylinder and linkage  
 3185 mm **10'5"** arm assembly..... 1761 kg **3,882 lb**  
 4020 mm **13'2"** arm assembly..... 1988 kg **4,383 lb**  
 One piece HD boom including arm cylinder  
 6500 mm **21'3"** boom assembly..... 3135 kg **6,912 lb**  
 Boom cylinders x 2..... 259 kg **571 lb**  
 Counterweight..... 6920 kg **15,255 lb**



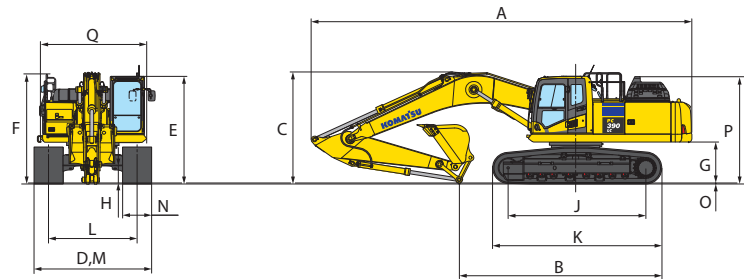
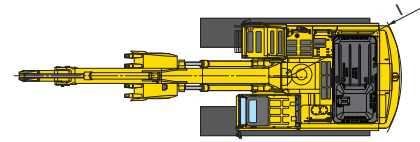


## DIMENSIONS

	Arm Length	3185 mm 10'5"	4020 mm 13'2"
<b>A</b>	Overall length	11170 mm 36'8"	11230 mm 36'10"
<b>B</b>	Length on ground (transport)	7530 mm 24'8"	5515 mm 18'1"
<b>C</b>	Overall height (to top of boom)*	3420 mm 11'3"	3690 mm 12'1"
<b>D</b>	Overall width	3640 mm 11'11"	
<b>E</b>	Overall height (to top of cab)*	3262 mm 10'8"	
<b>F</b>	Overall height (to top of handrail)*	3363 mm 11'0"	
<b>G</b>	Ground clearance, counterweight	1320 mm 4'4"	
<b>H</b>	Ground clearance, minimum	551 mm 1'10"	
<b>I</b>	Tail swing radius	3445 mm 11'4"	
<b>J</b>	Track length on ground	4350 mm 14'3"	
<b>K</b>	Track length	5357 mm 17'7"	
<b>L</b>	Track gauge	2740 mm 9'0"	
<b>M</b>	700 mm 28" shoe	3440 mm 11'2"	
	800 mm 31.5" shoe	3540 mm 11'6"	
	900 mm 35.5" shoe	3640 mm 11'11"	
<b>N</b>	Shoe width	900 mm 35.5"	
<b>O</b>	Grouser height	37 mm 1.5"	
<b>P</b>	Machine height to top of engine cover	3135 mm 10'3"	
<b>Q</b>	Machine upper width **	3145 mm 10'4"	

\* : Including grouser height

\*\* : Including handrail



## BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket								6.5 m (21'3") HD Boom		
	Capacity	Teeth	Width		Weight		Tip Radius		3.2 m (10'5")	4.0 m (13'2")	
Komatsu TL	0.93 m <sup>3</sup>	1.21 yd <sup>3</sup>	4	762 mm	30"	1097 kg	2418 lb	1674 mm	65.9"	●	●
	1.18 m <sup>3</sup>	1.54 yd <sup>3</sup>	4	914 mm	36"	1198 kg	2641 lb	1674 mm	65.9"	●	●
	1.44 m <sup>3</sup>	1.88 yd <sup>3</sup>	5	1067 mm	42"	1325 kg	2921 lb	1674 mm	65.9"	●	●
	1.70 m <sup>3</sup>	2.22 yd <sup>3</sup>	5	1219 mm	48"	1426 kg	3144 lb	1674 mm	65.9"	●	○
	1.96 m <sup>3</sup>	2.56 yd <sup>3</sup>	6	1372 mm	54"	1554 kg	3425 lb	1674 mm	65.9"	○	□
Komatsu HP	2.22 m <sup>3</sup>	2.91 yd <sup>3</sup>	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	□	○
	0.68 m <sup>3</sup>	0.89 yd <sup>3</sup>	3	610 mm	24"	1022 kg	2254 lb	1674 mm	65.9"	●	●
	0.93 m <sup>3</sup>	1.21 yd <sup>3</sup>	4	762 mm	30"	1178 kg	2598 lb	1674 mm	65.9"	●	●
	1.18 m <sup>3</sup>	1.54 yd <sup>3</sup>	4	914 mm	36"	1358 kg	2993 lb	1674 mm	65.9"	●	●
	1.44 m <sup>3</sup>	1.88 yd <sup>3</sup>	5	1067 mm	42"	1439 kg	3173 lb	1674 mm	65.9"	●	●
Komatsu HPS	1.70 m <sup>3</sup>	2.22 yd <sup>3</sup>	5	1219 mm	48"	1555 kg	3429 lb	1674 mm	65.9"	●	□
	1.96 m <sup>3</sup>	2.56 yd <sup>3</sup>	6	1372 mm	54"	1701 kg	3750 lb	1674 mm	65.9"	□	○
	2.22 m <sup>3</sup>	2.91 yd <sup>3</sup>	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	○	X
	0.68 m <sup>3</sup>	0.89 yd <sup>3</sup>	3	610 mm	24"	1112 kg	2451 lb	1674 mm	65.9"	●	●
	0.93 m <sup>3</sup>	1.21 yd <sup>3</sup>	4	762 mm	30"	1294 kg	2853 lb	1674 mm	65.9"	●	●
Komatsu HPX	1.18 m <sup>3</sup>	1.54 yd <sup>3</sup>	4	914 mm	36"	1437 kg	3167 lb	1674 mm	65.9"	●	●
	1.44 m <sup>3</sup>	1.88 yd <sup>3</sup>	5	1067 mm	42"	1607 kg	3543 lb	1674 mm	65.9"	●	○
	1.70 m <sup>3</sup>	2.22 yd <sup>3</sup>	5	1219 mm	48"	1750 kg	3857 lb	1674 mm	65.9"	○	□
	1.96 m <sup>3</sup>	2.56 yd <sup>3</sup>	6	1372 mm	54"	1921 kg	4236 lb	1674 mm	65.9"	□	○
	2.22 m <sup>3</sup>	2.91 yd <sup>3</sup>	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	○	X
Komatsu HPX	0.68 m <sup>3</sup>	0.89 yd <sup>3</sup>	3	610 mm	24"	1239 kg	2731 lb	1674 mm	65.9"	●	●
	0.93 m <sup>3</sup>	1.21 yd <sup>3</sup>	4	762 mm	30"	1421 kg	3133 lb	1674 mm	65.9"	●	●
	1.18 m <sup>3</sup>	1.54 yd <sup>3</sup>	4	914 mm	36"	1564 kg	3447 lb	1674 mm	65.9"	●	●
	1.44 m <sup>3</sup>	1.88 yd <sup>3</sup>	5	1067 mm	42"	1734 kg	3823 lb	1674 mm	65.9"	●	○
	1.70 m <sup>3</sup>	2.22 yd <sup>3</sup>	5	1219 mm	48"	1877 kg	4137 lb	1674 mm	65.9"	○	□
Komatsu HPX	1.96 m <sup>3</sup>	2.56 yd <sup>3</sup>	6	1372 mm	54"	2048 kg	4516 lb	1674 mm	65.9"	□	○
	2.22 m <sup>3</sup>	2.91 yd <sup>3</sup>	6	1524 mm	60"	1554 kg	3425 lb	1674 mm	65.9"	○	X

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

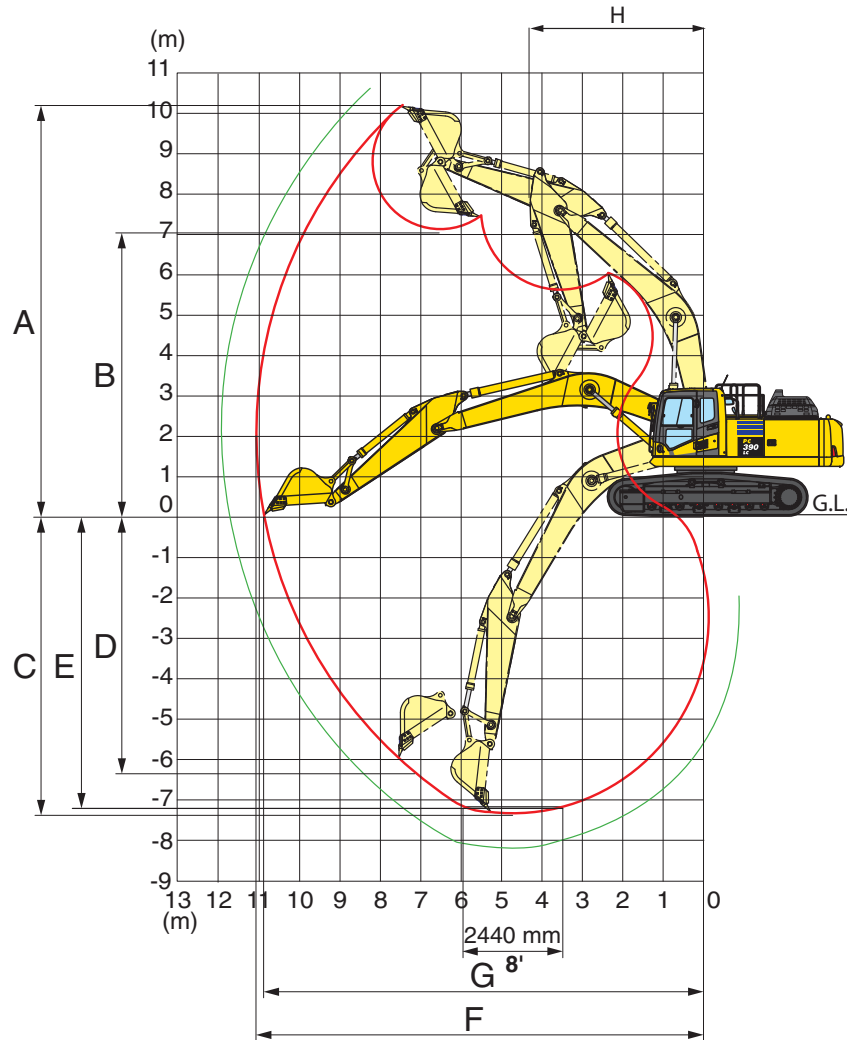
○ - Used with material weights up to 3,000 lb/yd<sup>3</sup> - Tough digging applications  
 ○ - Used with material weights up to 2,000 lb/yd<sup>3</sup> - Light materials applications  
 X - Not useable

Komatsu recommends the use of buckets sized to machine capacity. Buckets listed in the table above are sized appropriate to the specified material densities. Buckets exceeding recommended sizes may result in reduced performance

# SPECIFICATIONS



## WORKING RANGE

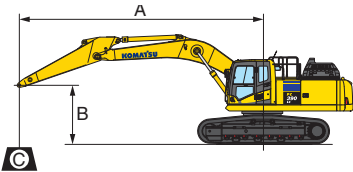


		Arm Length			
		3185 mm	10'5"	4020 mm	13'2"
<b>A</b>	Max. digging height	10260 mm	33'7"	10660 mm	35'0"
<b>B</b>	Max. dumping height	7155 mm	23'6"	7600 mm	24'11"
<b>C</b>	Max. digging depth	7265 mm	23'10"	8100 mm	26'7"
<b>D</b>	Max. vertical wall digging depth	6235 mm	20'6"	7145 mm	23'5"
<b>E</b>	Max. digging depth for 8' level bottom	7100 mm	23'3"	7975 mm	26'2"
<b>F</b>	Max. digging reach	11100 mm	36'5"	11895 mm	39'0"
<b>G</b>	Max. digging reach at ground level	10870 mm	35'8"	11705 mm	38'5"
<b>H</b>	Min. swing radius	4310 mm	14'2"	4320 mm	14'2"
<b>SAE rating</b>	Bucket digging force at power max.	200 kN 20400 kg / <b>44,970 lb</b>		200 kN 20400 kg / <b>44,970 lb</b>	
	Arm crowd force at power max.	165 kN 16800 kg / <b>37,040 lb</b>		139 kN 14200 kg / <b>31,310 lb</b>	
<b>ISO rating</b>	Bucket digging force at power max.	228 kN 23200 kg / <b>51,150 lb</b>		227 kN 23100 kg / <b>50,930 lb</b>	
	Arm crowd force at power max.	171 kN 17400 kg / <b>38,360 lb</b>		144 kN 14700 kg / <b>32,410 lb</b>	

PC390LC-11



## 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 :
- 6500 mm 21' 3" one-piece boom
  - Bucket: None
  - Lifting mode: On

Arm: 3185 mm 10'5" Shoes: 800 mm 31.5" Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 7200	* 7200
6.1 m 20'							* 8900	8800			* 15900	* 15900
4.6 m 15'					* 10800	* 10800	* 9400	8650			* 7100	6650
3.0 m 10'			* 16350	* 16350	* 23850	* 23850	* 20750	19050			* 15650	* 14750
1.5 m 5'			* 18250	16350	* 12150	11400	* 10050	8400	* 8800	6500	* 7400	6300
0 m 0'			* 40250	36150	* 26850	25200	* 22200	18550	* 19450	14400	* 16300	13900
-1.5 m -5'	* 14150	* 14150	* 17600	15950	* 13400	10650	* 10550	7950			* 8900	6750
-3.0 m -10'	* 31250	* 31250	* 38850	35250	* 29600	23450	* 23350	17550			* 19700	14950
-4.6 m -15'	* 20250	* 20250	* 15650	* 15650	* 12200	10700	* 9250	8000			* 8850	7750
	* 44700	* 44700	* 34550	* 34550	* 26900	23600	* 20500	17650			* 19500	17050
	* 15250	* 15250	* 12250	* 12250	* 9300	* 9300					* 8250	* 8250
	* 33600	* 33600	* 27000	* 27000	* 20500	* 20500					* 18250	* 18250

Arm: 3185 mm 10'5" Shoes: 900 mm 35.5" Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 7200	* 7200
6.1 m 20'							* 8900	8900			* 15900	* 15900
4.6 m 15'					* 10800	* 10800	* 9400	8700			* 7100	6750
3.0 m 10'			* 16350	* 16350	* 23850	* 23850	* 20750	19250			* 15650	* 14900
1.5 m 5'			* 18250	16550	* 13250	11100	* 10650	8250	* 9000	6450	* 7950	6250
0 m 0'			* 40250	36500	* 29250	24550	* 23450	18200	* 19850	14300	* 17550	13800
-1.5 m -5'	* 14150	* 14150	* 17600	16150	* 13400	10750	* 10550	8000			* 8900	6850
-3.0 m -10'	* 31250	* 31250	* 38850	35600	* 29600	23700	* 23350	17700			* 19700	15100
-4.6 m -15'	* 20250	* 20250	* 15650	* 15650	* 12200	10800	* 9250	8100			* 8850	7800
	* 44700	* 44700	* 34550	* 34550	* 26900	23850	* 20500	17850			* 19500	17250
	* 15250	* 15250	* 12250	* 12250	* 9300	* 9300					* 8250	8250
	* 33600	* 33600	* 27000	* 27000	* 20500	* 20500					* 18250	18250

Arm: 4020 mm 13'2" Shoes: 800 mm 31.5" Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 5600	* 5600
6.1 m 20'							* 7900	* 7900	* 6700	6650	* 12350	* 12350
4.6 m 15'					* 11050	* 11050	* 9250	8350	* 8200	6450	* 5500	* 5500
3.0 m 10'			* 14450	* 14450	* 24350	* 24350	* 20450	18400	* 18050	14200	* 12100	* 12100
1.5 m 5'			* 16900	16350	* 12350	10900	* 10000	8050	* 8500	6250	* 6000	5350
0 m 0'			* 37250	36050	* 27250	24050	* 22000	17750	* 18800	13850	* 13200	11850
-1.5 m -5'	* 8550	* 8550	* 17950	15700	* 13200	10550	* 10450	7800	* 8700	6150	* 6550	5450
-3.0 m -10'	* 18900	* 18900	* 39650	34650	* 29150	23300	* 23050	17250	* 19200	13550	* 14400	12050
-4.6 m -15'	* 12750	* 12750	* 17800	15450	* 13300	10300	* 10500	7650	* 8500	6100	* 7400	5750
	* 28150	* 28150	* 39250	34150	* 29350	22800	* 23150	16950	* 18700	13450	* 16350	12750
	* 18300	* 18300	* 16500	15500	* 12600	10300	* 9850	7650			* 7950	6400
	* 40350	* 40350	* 36450	34200	* 27800	22750	* 21750	16900			* 17600	14150
	* 18650	* 18650	* 14000	* 14000	* 10750	10400	* 7900	7800			* 7750	7750
	* 41150	* 41150	* 30900	* 30900	* 23750	22950	* 17400	17250			* 17100	17100

Arm: 4020 mm 13'2" Shoes: 900 mm 35.5" Unit: kg lb

B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 5600	* 5600
6.1 m 20'							* 7900	* 7900	* 6700	* 6700	* 12350	* 12350
4.6 m 15'					* 11050	* 11050	* 9250	8450	* 8200	6500	* 5500	* 5500
3.0 m 10'			* 14450	* 14450	* 24350	* 24350	* 20450	18600	* 18050	14350	* 12500	* 12250
1.5 m 5'			* 16900	16500	* 12350	11000	* 10000	8150	* 8500	6350	* 6000	5450
0 m 0'			* 37250	36400	* 27250	24300	* 22000	17950	* 18800	14000	* 13200	12000
-1.5 m -5'	* 8550	* 8550	* 17950	15850	* 13200	10650	* 10450	7900	* 8700	6200	* 6550	5500
-3.0 m -10'	* 18900	* 18900	* 39650	35000	* 29150	23550	* 23050	17450	* 19200	13700	* 14400	12200
-4.6 m -15'	* 12750	* 12750	* 17800	15650	* 13300	10450	* 10500	7750	* 8500	6150	* 7400	5850
	* 28150	* 28150	* 39250	34500	* 29350	23000	* 23150	17150	* 18700	13600	* 16350	12900
	* 18300	* 18300	* 16500	15650	* 12600	10400	* 9850	7750			* 7950	6500
	* 40350	* 40350	* 36450	34550	* 27800	22950	* 21750	17100			* 17600	14300
	* 18650	* 18650	* 14000	* 14000	* 10750	10500	* 7900	7900			* 7750	7750
	* 41150	* 41150	* 30900	* 30900	* 23750	23200	* 17400	17400			* 17100	17100

\*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
- Arm holding valve
- Automatic engine warm-up system
- Automatic climate control/air conditioner/heater/defroster
- Auto idle
- Auto idle shut down, programmable
- Auxiliary input (3.5mm jack)
- Batteries, large capacity (2 x 12V)
- Battery master disconnect switch
- Belt-driven suction fan
- Boom holding valves
- Carrier rollers, (2 each side)
- Converter, (2) x 12V
- Counterweight, 6920 kg **15,255 lb**
- Dry type air cleaner, double element
- Electric fuel priming pump
- Electric horn
- Engine, Komatsu SAA6D114E-6
- Engine coolant to -25°C **-13°F**
- EMMS monitoring system
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-filter 10 micron
- Grease sealed track chain
- 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 (ISO 10262)
- 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 (ISO12117-2)
- Seat belt indicator
- Seat belt, retractable, 76mm **3"**
- Secondary engine shutoff switch
- Service valve
- Skylight
- Slip resistant foot plates
- Starter motor, 11.0kW/24V x 1
- Thermal and fan guards
- Track frame swivel guard
- Track roller guards, center section
- Track rollers, 8 (each side)
- Track shoes, triple grouser, 800 mm **31.5"**
- Travel alarm
- Two boom mode settings
- Working lights, 2 (boom and RH front)
- Working mode selection system



## OPTIONAL EQUIPMENT

- Arms
  - 3185 mm **10'5"** arm assembly
  - 3185 mm **10'5"** arm assembly with piping
  - 4020 mm **13'2"** arm assembly
  - 4020 mm **13'2"** arm assembly with piping
- Booms
  - 6500 mm **21'3"** HD boom assembly
  - 6500 mm **21'3"** HD boom assembly with piping
- Cab guards
  - Lower front window guard
  - Full front guard, OPG Level 1
  - Full front guard, OPG Level 2
  - Bolt-on top guard, OPG Level 2
- Counterweight, 7400 kg **16,315 lb**
  - with revolving frame reinforcements for use with super long fronts only.
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Proportional control handles
- Rain visor
- Revolving frame undercovers, heavy duty
- Revolving frame undercovers, severe duty
- Sun visor
- Straight travel pedal
- Track roller guards, full length
- Track shoes, triple grouser, 700 mm **28"**
- Track shoes, triple grouser, 900 mm **35.5"**
- Working lights, front, two additional cab mounted



## ATTACHMENT OPTIONS

- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Load hold, anti-burst valves
- Material handler front
- 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.**

# KOMATSU®

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